

Release 5

Clone Arm	Start	End	Coordinate_Type	Start	Coordinate_Type	End
CH321-01A01 X	12983914	13071914	located_end	12983914	13071914	estimated_end
CH321-01A03 2L	11640877	11728877	located_end	11640877	11728877	estimated_end
CH321-01A07 3R	12817491	12905491	located_end	12817491	12905491	estimated_end
CH321-01A10 X	3523606	3611606	located_end	3523606	3611606	estimated_end
CH321-01A11 2L	13029260	13117260	located_end	13029260	13117260	estimated_end
CH321-01A13 2R	21038465	21126465	located_end	21038465	21126465	estimated_end
CH321-01A14 3R	10579469	10667469	located_end	10579469	10667469	estimated_end
CH321-01A17 3R	21612294	21700294	located_end	21612294	21700294	estimated_end
CH321-01A24 2L	2850550	2938550	located_end	2850550	2938550	estimated_end
CH321-01C02 X	10219958	10307958	located_end	10219958	10307958	estimated_end
CH321-01C07 3LHet	2394451	2482451	located_end	2394451	2482451	estimated_end
CH321-01C08 2L	4103652	4191652	located_end	4103652	4191652	estimated_end
CH321-01C09 3R	10402151	10490151	located_end	10402151	10490151	estimated_end
CH321-01C16 3R	22350326	22438326	located_end	22350326	22438326	estimated_end
CH321-01D01 3L	6476239	6564239	located_end	6476239	6564239	estimated_end
CH321-01D08 3LHet	409117	497117	located_end	409117	497117	estimated_end
CH321-01E01 ArmU	1321083	1409083	located_end	1321083	1409083	estimated_end
CH321-01E05 2L	3845137	3933137	located_end	3845137	3933137	estimated_end
CH321-01E08 X	994311	1082311	located_end	994311	1082311	estimated_end
CH321-01E09 2L	7442197	7530197	located_end	7442197	7530197	estimated_end
CH321-01E20 3R	5408272	5496272	located_end	5408272	5496272	estimated_end
CH321-01F03 2R	7145225	7233225	located_end	7145225	7233225	estimated_end
CH321-01F11 2RHet	2264696	2352696	located_end	2264696	2352696	estimated_end
CH321-01F12 3R	17600051	17688051	located_end	17600051	17688051	estimated_end
CH321-01G07 X	13795	101795	located_end	13795	101795	estimated_end

CH321-01G08 2L	2651785	2739785	located_end 2651785
	estimated_end	2739785	
CH321-01G09 2RHet	1927642	2015642	located_end 1927642
	estimated_end	2015642	
CH321-01H15 3LHet	2509999	2597999	located_end 2509999
	estimated_end	2597999	
CH321-01I02 3R	4258211	4346211	estimated_end 4258211
	located_end	4346211	
CH321-01I05 3R	22593218	22681218	located_end 22593218
	estimated_end	22681218	
CH321-01I09 3R	20489680	20577680	estimated_end 20489680
	located_end	20577680	
CH321-01I17 3L	11868424	11956424	located_end 11868424
	estimated_end	11956424	
CH321-01I22 3R	21242897	21330897	estimated_end 21242897
	located_end	21330897	
CH321-01J01 2L	7517798	7605798	estimated_end 7517798
	located_end	7605798	
CH321-01J07 3R	17985051	18073051	located_end 17985051
	estimated_end	18073051	
CH321-01J12 3R	15854028	15942028	located_end 15854028
	estimated_end	15942028	
CH321-01J14 3L	15807479	15895479	estimated_end 15807479
	located_end	15895479	
CH321-01K01 3L	8008926	8096926	located_end 8008926
	estimated_end	8096926	
CH321-01K04 3L	14634633	14722633	estimated_end 14634633
	located_end	14722633	
CH321-01K08 3R	27584661	27672661	estimated_end 27584661
	located_end	27672661	
CH321-01K14 3RHet	1887196	1975196	located_end 1887196
	estimated_end	1975196	
CH321-01L02 2L	13130986	13218986	estimated_end 13130986
	located_end	13218986	
CH321-01L03 2R	13400655	13488655	estimated_end 13400655
	located_end	13488655	
CH321-01L09 2L	15820723	15908723	located_end 15820723
	estimated_end	15908723	
CH321-01M01 3L	3635352	3723352	estimated_end 3635352
	located_end	3723352	
CH321-01M03 2L	4708926	4796926	estimated_end 4708926
	located_end	4796926	
CH321-01M04 2R	13775455	13863455	located_end 13775455
	estimated_end	13863455	
CH321-01M12 X	2598863	2686863	estimated_end 2598863
	located_end	2686863	
CH321-01M13 ArmU	9708448	9796448	estimated_end 9708448
	located_end	9796448	
CH321-01N02 X	15603259	15691259	located_end 15603259
	estimated_end	15691259	
CH321-01N04 3L	7801221	7889221	estimated_end 7801221
	located_end	7889221	
CH321-01N17 3L	20083827	20171827	located_end 20083827
	estimated_end	20171827	

CH321-01N19 3R	27728461	27816461	estimated_end	27728461
	located_end	27816461		
CH321-01N21 3R	12137980	12225980	estimated_end	12137980
	located_end	12225980		
CH321-01O01 2L	3080454	3168454	located_end	3080454
	estimated_end	3168454		
CH321-01O02 2R	10542139	10630139	estimated_end	10542139
	located_end	10630139		
CH321-01O06 2R	2191174	2279174	located_end	2191174
	estimated_end	2279174		
CH321-01O24 2R	597195	685195	estimated_end	597195
	located_end	685195		
CH321-01P01 3L	20102830	20190830	estimated_end	20102830
	located_end	20190830		
CH321-01P03 2R	13487929	13575929	located_end	13487929
	estimated_end	13575929		
CH321-01P04 2R	3376499	3464499	estimated_end	3376499
	located_end	3464499		
CH321-01P13 2R	10815126	10903126	estimated_end	10815126
	located_end	10903126		
CH321-01P15 2L	15340265	15428265	located_end	15340265
	estimated_end	15428265		
CH321-01P17 X	6345403	6433403	estimated_end	6345403
	located_end	6433403		
CH321-01P18 2L	15028872	15116872	located_end	15028872
	estimated_end	15116872		
CH321-01P21 2R	6428844	6516844	located_end	6428844
	estimated_end	6516844		
CH321-02A08 3L	3068516	3156516	estimated_end	3068516
	located_end	3156516		
CH321-02A22 ArmU	1431376	1519376	estimated_end	1431376
	located_end	1519376		
CH321-02B10 2L	1083197	1171197	located_end	1083197
	estimated_end	1171197		
CH321-02C12 3R	9528272	9616272	estimated_end	9528272
	located_end	9616272		
CH321-02D04 3L	20411541	20499541	located_end	20411541
	estimated_end	20499541		
CH321-02D07 2R	15727326	15815326	located_end	15727326
	estimated_end	15815326		
CH321-02D08 3L	21196428	21284428	estimated_end	21196428
	located_end	21284428		
CH321-02D10 X	21260743	21348743	located_end	21260743
	estimated_end	21348743		
CH321-02D13 3R	11680556	11768556	estimated_end	11680556
	located_end	11768556		
CH321-02D15 X	9043173	9131173	estimated_end	9043173
	located_end	9131173		
CH321-02D16 2R	2056866	2144866	estimated_end	2056866
	located_end	2144866		
CH321-02D18 2R	10054393	10142393	estimated_end	10054393
	located_end	10142393		
CH321-02D21 3R	6642667	6730667	estimated_end	6642667
	located_end	6730667		

CH321-02E03 2L	1293705	1381705	estimated_end	1293705
	located_end	1381705		
CH321-02E04 3R	16090109	16178109	estimated_end	16090109
	located_end	16178109		
CH321-02E11 3R	2089956	2177956	located_end	2089956
	estimated_end	2177956		
CH321-02E17 3L	964466	1052466	located_end	964466
	estimated_end	1052466		
CH321-02F03 3L	3576660	3664660	estimated_end	3576660
	located_end	3664660		
CH321-02F06 2R	4384657	4472657	located_end	4384657
	estimated_end	4472657		
CH321-02F10 3R	11652362	11740362	located_end	11652362
	estimated_end	11740362		
CH321-02F11 X	14872718	14960718	estimated_end	14872718
	located_end	14960718		
CH321-02F12 X	8787428	8875428	located_end	8787428
	estimated_end	8875428		
CH321-02F13 3LHet	610455	698455	located_end	610455
	estimated_end	698455		
CH321-02F20 2R	17742841	17830841	located_end	17742841
	estimated_end	17830841		
CH321-02G10 2L	7283321	7371321	estimated_end	7283321
	located_end	7371321		
CH321-02G11 2L	351613	439613	estimated_end	351613
	located_end	439613		
CH321-02G13 2R	9455759	9543759	estimated_end	9455759
	located_end	9543759		
CH321-02G14 3LHet	319995	407995	estimated_end	319995
	located_end	407995		
CH321-02G15 X	6778786	6866786	estimated_end	6778786
	located_end	6866786		
CH321-02G17 3R	22524127	22612127	estimated_end	22524127
	located_end	22612127		
CH321-02G18 3L	16181467	16269467	estimated_end	16181467
	located_end	16269467		
CH321-02H01 3R	4538825	4626825	located_end	4538825
	estimated_end	4626825		
CH321-02H12 3R	20147179	20235179	located_end	20147179
	estimated_end	20235179		
CH321-02H13 3R	16518628	16606628	estimated_end	16518628
	located_end	16606628		
CH321-02H21 2L	22819987	22907987	located_end	22819987
	estimated_end	22907987		
CH321-02I05 4	118713	206713	estimated_end	118713
	located_end	206713		
CH321-02I20 2L	20425269	20513269	located_end	20425269
	estimated_end	20513269		
CH321-02J01 2R	11026266	11114266	estimated_end	11026266
	located_end	11114266		
CH321-02J09 2L	13138561	13226561	estimated_end	13138561
	located_end	13226561		
CH321-02J12 X	22136377	22224377	estimated_end	22136377
	located_end	22224377		

CH321-02J17 3L	14986228	15074228	estimated_end	14986228
	located_end	15074228		
CH321-02K02 3L	794795	882795	located_end	794795
	estimated_end	882795		
CH321-02K05 2R	6825484	6913484	located_end	6825484
	estimated_end	6913484		
CH321-02K07 3R	20970441	21058441	estimated_end	20970441
	located_end	21058441		
CH321-02K09 X	905347	993347	located_end	905347
	estimated_end	993347		
CH321-02K11 4	124597	212597	estimated_end	124597
	located_end	212597		
CH321-02K12 2R	13997437	14085437	located_end	13997437
	estimated_end	14085437		
CH321-02K13 2R	2121991	2209991	estimated_end	2121991
	located_end	2209991		
CH321-02K14 2R	487377	575377	located_end	487377
	estimated_end	575377		
CH321-02K15 3R	27623857	27711857	located_end	27623857
	estimated_end	27711857		
CH321-02K16 X	6423848	6511848	located_end	6423848
	estimated_end	6511848		
CH321-02K17 3L	9707117	9795117	estimated_end	9707117
	located_end	9795117		
CH321-02L02 ArmU	8129447	8217447	located_end	8129447
	estimated_end	8217447		
CH321-02L03 2L	8908619	8996619	estimated_end	8908619
	located_end	8996619		
CH321-02L04 2R	14933276	15021276	located_end	14933276
	estimated_end	15021276		
CH321-02L08 3R	14309618	14397618	estimated_end	14309618
	located_end	14397618		
CH321-02L18 3L	4600162	4688162	estimated_end	4600162
	located_end	4688162		
CH321-02L20 ArmU	2951004	3039004	located_end	2951004
	estimated_end	3039004		
CH321-02L23 3R	18064064	18152064	estimated_end	18064064
	located_end	18152064		
CH321-02L24 3R	21745197	21833197	located_end	21745197
	estimated_end	21833197		
CH321-02M05 2L	7788717	7876717	estimated_end	7788717
	located_end	7876717		
CH321-02M10 2R	15797060	15885060	estimated_end	15797060
	located_end	15885060		
CH321-02M13 3L	14425540	14513540	located_end	14425540
	estimated_end	14513540		
CH321-02M17 2L	22100599	22188599	located_end	22100599
	estimated_end	22188599		
CH321-02M21 3R	11426740	11514740	estimated_end	11426740
	located_end	11514740		
CH321-02N01 X	10524475	10612475	estimated_end	10524475
	located_end	10612475		
CH321-02N02 3L	17656864	17744864	located_end	17656864
	estimated_end	17744864		

CH321-02N03 2R	17216082	17304082	located_end	17216082
	estimated_end	17304082		
CH321-02N05 3L	18599839	18687839	located_end	18599839
	estimated_end	18687839		
CH321-02N06 2R	13279849	13367849	located_end	13279849
	estimated_end	13367849		
CH321-02N20 X	9510400	9598400	estimated_end	9510400
	located_end	9598400		
CH321-02N21 3L	13387743	13475743	located_end	13387743
	estimated_end	13475743		
CH321-02O03 3R	2987119	3075119	estimated_end	2987119
	located_end	3075119		
CH321-02O04 X	11500576	11588576	estimated_end	11500576
	located_end	11588576		
CH321-02O08 2R	8562317	8650317	estimated_end	8562317
	located_end	8650317		
CH321-02O17 3L	11713365	11801365	located_end	11713365
	estimated_end	11801365		
CH321-02O19 3R	14126962	14214962	estimated_end	14126962
	located_end	14214962		
CH321-02O22 2R	8110638	8198638	estimated_end	8110638
	located_end	8198638		
CH321-02O23 3L	4726292	4814292	located_end	4726292
	estimated_end	4814292		
CH321-02P05 2LHet	246436	334436	located_end	246436
	estimated_end	334436		
CH321-02P06 2L	11533972	11621972	estimated_end	11533972
	located_end	11621972		
CH321-02P15 3L	6785838	6873838	located_end	6785838
	estimated_end	6873838		
CH321-02P19 3L	18226239	18314239	estimated_end	18226239
	located_end	18314239		
CH321-02P22 3R	18580172	18668172	estimated_end	18580172
	located_end	18668172		
CH321-03A01 2R	2776695	2864695	estimated_end	2776695
	located_end	2864695		
CH321-03A04 2L	3611143	3699143	estimated_end	3611143
	located_end	3699143		
CH321-03A16 3L	14816111	14904111	located_end	14816111
	estimated_end	14904111		
CH321-03A23 2R	9612444	9700444	estimated_end	9612444
	located_end	9700444		
CH321-03A24 3R	24723109	24811109	estimated_end	24723109
	located_end	24811109		
CH321-03B01 2R	16337923	16425923	estimated_end	16337923
	located_end	16425923		
CH321-03B02 3R	22679705	22767705	estimated_end	22679705
	located_end	22767705		
CH321-03B03 3R	14137867	14225867	estimated_end	14137867
	located_end	14225867		
CH321-03B14 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-03B21 X	9677612	9765612	located_end	9677612
	estimated_end	9765612		

CH321-03B23 4	858713	946713	located_end	858713
	estimated_end	946713		
CH321-03B24 2R	5736599	5824599	estimated_end	5736599
	located_end	5824599		
CH321-03C07 2R	13280599	13368599	estimated_end	13280599
	located_end	13368599		
CH321-03C19 X	4019722	4107722	estimated_end	4019722
	located_end	4107722		
CH321-03C21 2L	22371026	22459026	estimated_end	22371026
	located_end	22459026		
CH321-03D05 2L	15627807	15715807	located_end	15627807
	estimated_end	15715807		
CH321-03D12 ArmU	9708223	9796223	estimated_end	9708223
	located_end	9796223		
CH321-03D14 X	5306347	5394347	estimated_end	5306347
	located_end	5394347		
CH321-03E03 2L	6545958	6633958	located_end	6545958
	estimated_end	6633958		
CH321-03E06 3L	9082893	9170893	estimated_end	9082893
	located_end	9170893		
CH321-03E11 3R	18201495	18289495	located_end	18201495
	estimated_end	18289495		
CH321-03E17 X	2597064	2685064	estimated_end	2597064
	located_end	2685064		
CH321-03E19 2L	21383634	21471634	located_end	21383634
	estimated_end	21471634		
CH321-03E20 2L	3008391	3096391	estimated_end	3008391
	located_end	3096391		
CH321-03E22 X	15774557	15862557	located_end	15774557
	estimated_end	15862557		
CH321-03F13 3R	22619876	22707876	located_end	22619876
	estimated_end	22707876		
CH321-03F17 2R	2704224	2792224	estimated_end	2704224
	located_end	2792224		
CH321-03F18 3R	23100759	23188759	estimated_end	23100759
	located_end	23188759		
CH321-03F20 2R	18982911	19070911	estimated_end	18982911
	located_end	19070911		
CH321-03F22 3R	26893565	26981565	estimated_end	26893565
	located_end	26981565		
CH321-03G08 3R	20105629	20193629	located_end	20105629
	estimated_end	20193629		
CH321-03G10 3R	12677760	12765760	located_end	12677760
	estimated_end	12765760		
CH321-03G14 3L	14859861	14947861	located_end	14859861
	estimated_end	14947861		
CH321-03G15 3L	8387834	8475834	located_end	8387834
	estimated_end	8475834		
CH321-03G21 X	13082717	13170717	estimated_end	13082717
	located_end	13170717		
CH321-03G22 2R	8204394	8292394	located_end	8204394
	estimated_end	8292394		
CH321-03H12 3L	13285254	13373254	estimated_end	13285254
	located_end	13373254		

CH321-03H14 2L	20581129	20669129	estimated_end	20581129
	located_end	20669129		
CH321-03H21 X	3453494	3541494	located_end	3453494
	estimated_end	3541494		
CH321-03I06 3R	18124942	18212942	estimated_end	18124942
	located_end	18212942		
CH321-03I11 X	3786095	3874095	located_end	3786095
	estimated_end	3874095		
CH321-03I12 3R	7068391	7156391	located_end	7068391
	estimated_end	7156391		
CH321-03I14 3R	3041255	3129255	located_end	3041255
	estimated_end	3129255		
CH321-03I15 2R	2792444	2880444	located_end	2792444
	estimated_end	2880444		
CH321-03J05 X	17040081	17128081	located_end	17040081
	estimated_end	17128081		
CH321-03J20 X	18344093	18432093	estimated_end	18344093
	located_end	18432093		
CH321-03J24 2L	17795769	17883769	estimated_end	17795769
	located_end	17883769		
CH321-03K09 3R	1405425	1493425	estimated_end	1405425
	located_end	1493425		
CH321-03K10 X	15635676	15723676	estimated_end	15635676
	located_end	15723676		
CH321-03K13 2L	18357276	18445276	estimated_end	18357276
	located_end	18445276		
CH321-03K15 2R	13050164	13138164	estimated_end	13050164
	located_end	13138164		
CH321-03K17 3R	4567173	4655173	located_end	4567173
	estimated_end	4655173		
CH321-03K18 3L	5965652	6053652	estimated_end	5965652
	located_end	6053652		
CH321-03K19 2R	4360982	4448982	located_end	4360982
	estimated_end	4448982		
CH321-03K21 3L	7098041	7186041	located_end	7098041
	estimated_end	7186041		
CH321-03K22 2L	21282118	21370118	estimated_end	21282118
	located_end	21370118		
CH321-03K24 3R	19543470	19631470	estimated_end	19543470
	located_end	19631470		
CH321-03L12 2R	6891099	6979099	located_end	6891099
	estimated_end	6979099		
CH321-03L13 2R	12335472	12423472	estimated_end	12335472
	located_end	12423472		
CH321-03L17 3R	16755902	16843902	located_end	16755902
	estimated_end	16843902		
CH321-03L18 3L	11615059	11703059	located_end	11615059
	estimated_end	11703059		
CH321-03L19 3R	8722773	8810773	estimated_end	8722773
	located_end	8810773		
CH321-03M03 3L	15748408	15836408	located_end	15748408
	estimated_end	15836408		
CH321-03M09 2L	20640440	20728440	located_end	20640440
	estimated_end	20728440		

CH321-03M10 3L	22815105	22903105	located_end	22815105
	estimated_end	22903105		
CH321-03M11 2L	9447370	9535370	estimated_end	9447370
	located_end	9535370		
CH321-03M13 3L	19122529	19210529	located_end	19122529
	estimated_end	19210529		
CH321-03M15 2L	9447370	9535370	estimated_end	9447370
	located_end	9535370		
CH321-03M17 3R	10879224	10967224	estimated_end	10879224
	located_end	10967224		
CH321-03N02 3L	1034167	1122167	estimated_end	1034167
	located_end	1122167		
CH321-03N03 3L	18568922	18656922	located_end	18568922
	estimated_end	18656922		
CH321-03N09 X	12560919	12648919	located_end	12560919
	estimated_end	12648919		
CH321-03N10 2L	12452985	12540985	estimated_end	12452985
	located_end	12540985		
CH321-03N11 X	9728532	9816532	located_end	9728532
	estimated_end	9816532		
CH321-03N12 X	8168080	8256080	estimated_end	8168080
	located_end	8256080		
CH321-03N13 3L	19800025	19888025	estimated_end	19800025
	located_end	19888025		
CH321-03N14 2L	21066658	21154658	estimated_end	21066658
	located_end	21154658		
CH321-03N18 X	18052809	18140809	estimated_end	18052809
	located_end	18140809		
CH321-03N19 X	5948858	6036858	estimated_end	5948858
	located_end	6036858		
CH321-03N20 X	5116240	5204240	estimated_end	5116240
	located_end	5204240		
CH321-03N21 3R	15161868	15249868	estimated_end	15161868
	located_end	15249868		
CH321-03N24 2L	6038644	6126644	located_end	6038644
	estimated_end	6126644		
CH321-03O08 3R	974870	1062870	located_end	974870
	estimated_end	1062870		
CH321-03O09 3R	23317873	23405873	located_end	23317873
	estimated_end	23405873		
CH321-03O11 2L	6255315	6343315	estimated_end	6255315
	located_end	6343315		
CH321-03O13 3L	14834343	14922343	located_end	14834343
	estimated_end	14922343		
CH321-03O14 3R	10320388	10408388	located_end	10320388
	estimated_end	10408388		
CH321-03O15 2R	21143253	21231253	located_end	21143253
	estimated_end	21231253		
CH321-03O20 2L	19748485	19836485	located_end	19748485
	estimated_end	19836485		
CH321-03O21 X	20809744	20897744	estimated_end	20809744
	located_end	20897744		
CH321-03O22 2L	22115661	22203661	located_end	22115661
	estimated_end	22203661		

CH321-03O24 3R	6112852	6200852	estimated_end	6112852
	located_end	6200852		
CH321-03P07 3L	3300852	3388852	located_end	3300852
	estimated_end	3388852		
CH321-03P14 3L	12370113	12458113	located_end	12370113
	estimated_end	12458113		
CH321-03P18 3R	9755398	9843398	located_end	9755398
	estimated_end	9843398		
CH321-03P19 3L	7539681	7627681	estimated_end	7539681
	located_end	7627681		
CH321-03P24 2L	7897100	7985100	located_end	7897100
	estimated_end	7985100		
CH321-04A05 X	16260035	16348035	estimated_end	16260035
	located_end	16348035		
CH321-04A06 3L	1221448	1309448	estimated_end	1221448
	located_end	1309448		
CH321-04A07 ArmU	9777176	9865176	located_end	9777176
	estimated_end	9865176		
CH321-04A12 3L	11639828	11727828	located_end	11639828
	estimated_end	11727828		
CH321-04A14 3L	14250193	14338193	located_end	14250193
	estimated_end	14338193		
CH321-04A23 X	2212322	2300322	located_end	2212322
	estimated_end	2300322		
CH321-04B13 2L	22132898	22220898	located_end	22132898
	estimated_end	22220898		
CH321-04B14 2L	1424222	1512222	located_end	1424222
	estimated_end	1512222		
CH321-04C07 X	7318567	7406567	located_end	7318567
	estimated_end	7406567		
CH321-04C08 ArmU	279300	367300	estimated_end	279300
	located_end	367300		
CH321-04C14 2L	15129537	15217537	located_end	15129537
	estimated_end	15217537		
CH321-04D09 3L	17046896	17134896	located_end	17046896
	estimated_end	17134896		
CH321-04D17 3L	9441256	9529256	located_end	9441256
	estimated_end	9529256		
CH321-04D20 3R	15057975	15145975	located_end	15057975
	estimated_end	15145975		
CH321-04E01 3L	6421247	6509247	estimated_end	6421247
	located_end	6509247		
CH321-04E04 2R	19294346	19382346	estimated_end	19294346
	located_end	19382346		
CH321-04E14 2L	4738713	4826713	located_end	4738713
	estimated_end	4826713		
CH321-04F14 2L	14891993	14979993	estimated_end	14891993
	located_end	14979993		
CH321-04G05 X	2597803	2685803	estimated_end	2597803
	located_end	2685803		
CH321-04G09 2L	16157850	16245850	estimated_end	16157850
	located_end	16245850		
CH321-04G12 ArmU	5188619	5276619	located_end	5188619
	estimated_end	5276619		

CH321-04G18 ArmU	7288717	7376717	estimated_end	7288717
	located_end	7376717		
CH321-04G24 XHet	174250	262250	located_end	174250
	estimated_end	262250		
CH321-04H01 X	17616503	17704503	located_end	17616503
	estimated_end	17704503		
CH321-04H02 3RHet	1378178	1466178	estimated_end	1378178
	located_end	1466178		
CH321-04H04 ArmU	3552575	3640575	located_end	3552575
	estimated_end	3640575		
CH321-04H21 3L	11525996	11613996	located_end	11525996
	estimated_end	11613996		
CH321-04I15 3L	6217245	6305245	estimated_end	6217245
	located_end	6305245		
CH321-04I23 2R	4397961	4485961	estimated_end	4397961
	located_end	4485961		
CH321-04I24 3L	18532565	18620565	estimated_end	18532565
	located_end	18620565		
CH321-04J09 2L	21498459	21586459	estimated_end	21498459
	located_end	21586459		
CH321-04J11 3R	22845707	22933707	located_end	22845707
	estimated_end	22933707		
CH321-04J12 2L	21301215	21389215	located_end	21301215
	estimated_end	21389215		
CH321-04J18 2L	9229987	9317987	located_end	9229987
	estimated_end	9317987		
CH321-04K02 3L	11881896	11969896	located_end	11881896
	estimated_end	11969896		
CH321-04K04 2L	17290085	17378085	located_end	17290085
	estimated_end	17378085		
CH321-04L01 3L	22986794	23074794	estimated_end	22986794
	located_end	23074794		
CH321-04L03 X	5695644	5783644	located_end	5695644
	estimated_end	5783644		
CH321-04L06 3R	25427331	25515331	estimated_end	25427331
	located_end	25515331		
CH321-04M03 3R	2342794	2430794	located_end	2342794
	estimated_end	2430794		
CH321-04M04 2L	11668	99668	estimated_end	11668
	located_end	99668	located_end	99668
CH321-04M23 X	10464612	10552612	estimated_end	10464612
	located_end	10552612		
CH321-04N12 2L	10557191	10645191	located_end	10557191
	estimated_end	10645191		
CH321-04N18 X	11316907	11404907	located_end	11316907
	estimated_end	11404907		
CH321-04N20 3L	23217865	23305865	located_end	23217865
	estimated_end	23305865		
CH321-04N22 3R	10133027	10221027	located_end	10133027
	estimated_end	10221027		
CH321-04N24 2L	6462397	6550397	located_end	6462397
	estimated_end	6550397		
CH321-04O01 3L	4013777	4101777	located_end	4013777
	estimated_end	4101777		

CH321-04O03 X	14547478	14635478	estimated_end	14547478
	located_end	14635478		
CH321-04O04 3L	16148665	16236665	estimated_end	16148665
	located_end	16236665		
CH321-04O06 3L	13862877	13950877	located_end	13862877
	estimated_end	13950877		
CH321-04O21 3R	2104181	2192181	estimated_end	2104181
	located_end	2192181		
CH321-04P02 X	27897 115897		located_end 27897	estimated_end 115897
CH321-04P03 2R	21110196	21198196	located_end	21110196
	estimated_end	21198196		
CH321-04P06 X	17823537	17911537	estimated_end	17823537
	located_end	17911537		
CH321-04P08 3LHet	2449993	2537993	estimated_end	2449993
	located_end	2537993		
CH321-04P12 3L	16630042	16718042	located_end	16630042
	estimated_end	16718042		
CH321-04P16 3R	11183336	11271336	estimated_end	11183336
	located_end	11271336		
CH321-04P21 X	7938027	8026027	located_end	7938027
	estimated_end	8026027		
CH321-04P23 3R	26428687	26516687	estimated_end	26428687
	located_end	26516687		
CH321-04P24 3R	14648717	14736717	estimated_end	14648717
	located_end	14736717		
CH321-05A20 2L	17674407	17762407	located_end	17674407
	estimated_end	17762407		
CH321-05B18 3LHet	2079614	2167614	estimated_end	2079614
	located_end	2167614		
CH321-05B19 X	17409076	17497076	estimated_end	17409076
	located_end	17497076		
CH321-05C01 2R	4539209	4627209	estimated_end	4539209
	located_end	4627209		
CH321-05C07 3R	7786455	7874455	estimated_end	7786455
	located_end	7874455		
CH321-05C10 3LHet	399226	487226	estimated_end	399226
	located_end	487226		
CH321-05C20 3R	5443970	5531970	located_end	5443970
	estimated_end	5531970		
CH321-05C22 3L	18285352	18373352	estimated_end	18285352
	located_end	18373352		
CH321-05C24 2L	16360947	16448947	estimated_end	16360947
	located_end	16448947		
CH321-05D01 X	14508932	14596932	located_end	14508932
	estimated_end	14596932		
CH321-05D17 2L	5056518	5144518	estimated_end	5056518
	located_end	5144518		
CH321-05D22 X	3508877	3596877	estimated_end	3508877
	located_end	3596877		
CH321-05E03 2L	20582998	20670998	estimated_end	20582998
	located_end	20670998		
CH321-05E07 2L	21383747	21471747	located_end	21383747
	estimated_end	21471747		

CH321-05F01 3R	13900926	13988926	located_end	13900926
	estimated_end	13988926		
CH321-05F08 ArmU	9831193	9919193	located_end	9831193
	estimated_end	9919193		
CH321-05F11 3L	5565165	5653165	located_end	5565165
	estimated_end	5653165		
CH321-05G01 X	3082515	3170515	located_end	3082515
	estimated_end	3170515		
CH321-05G03 2R	15629637	15717637	estimated_end	15629637
	located_end	15717637		
CH321-05G04 X	7795048	7883048	estimated_end	7795048
	located_end	7883048		
CH321-05H12 4	782773	870773	estimated_end	782773
	located_end	870773		
CH321-05H23 ArmU	971583	1059583	located_end	971583
	estimated_end	1059583		
CH321-05I02 2R	87929	175929	located_end	87929
	estimated_end	175929		
CH321-05I13 2RHet	3158051	3246051	located_end	3158051
	estimated_end	3246051		
CH321-05I14 2R	18153711	18241711	located_end	18153711
	estimated_end	18241711		
CH321-05I15 2R	12796221	12884221	estimated_end	12796221
	located_end	12884221		
CH321-05J11 ArmU	6883739	6971739	located_end	6883739
	estimated_end	6971739		
CH321-05J12 2L	18607112	18695112	estimated_end	18607112
	located_end	18695112		
CH321-05J15 3R	7757024	7845024	estimated_end	7757024
	located_end	7845024		
CH321-05K01 3R	4262142	4350142	estimated_end	4262142
	located_end	4350142		
CH321-05K02 X	17024058	17112058	located_end	17024058
	estimated_end	17112058		
CH321-05K14 X	4604239	4692239	located_end	4604239
	estimated_end	4692239		
CH321-05L01 3R	24501876	24589876	located_end	24501876
	estimated_end	24589876		
CH321-05L02 3R	4384252	4472252	located_end	4384252
	estimated_end	4472252		
CH321-05L07 3R	4987888	5075888	estimated_end	4987888
	located_end	5075888		
CH321-05L08 4	251694	339694	estimated_end	251694
	located_end	339694		
CH321-05L15 3L	11139116	11227116	located_end	11139116
	estimated_end	11227116		
CH321-05L17 2L	6977315	7065315	located_end	6977315
	estimated_end	7065315		
CH321-05M03 2R	9213598	9301598	located_end	9213598
	estimated_end	9301598		
CH321-05N03 2L	2638558	2726558	estimated_end	2638558
	located_end	2726558		
CH321-05N04 3L	19172539	19260539	estimated_end	19172539
	located_end	19260539		

CH321-05N08 2L	21975352	22063352	estimated_end	21975352
	located_end	22063352		
CH321-05O03 3R	12998000	13086000	estimated_end	12998000
	located_end	13086000		
CH321-05O04 3R	26338067	26426067	estimated_end	26338067
	located_end	26426067		
CH321-05O17 2L	21717153	21805153	located_end	21717153
	estimated_end	21805153		
CH321-05O21 X	11891465	11979465	located_end	11891465
	estimated_end	11979465		
CH321-05P04 3L	19594773	19682773	estimated_end	19594773
	located_end	19682773		
CH321-05P09 3R	26316543	26404543	located_end	26316543
	estimated_end	26404543		
CH321-05P14 3R	5290716	5378716	estimated_end	5290716
	located_end	5378716		
CH321-05P15 3R	9895921	9983921	estimated_end	9895921
	located_end	9983921		
CH321-05P17 2L	21005872	21093872	estimated_end	21005872
	located_end	21093872		
CH321-05P18 2L	21488379	21576379	estimated_end	21488379
	located_end	21576379		
CH321-05P23 2L	16614192	16702192	estimated_end	16614192
	located_end	16702192		
CH321-06A04 2L	2245199	2333199	located_end	2245199
	estimated_end	2333199		
CH321-06A06 X	13651997	13739997	located_end	13651997
	estimated_end	13739997		
CH321-06A08 3L	5810288	5898288	estimated_end	5810288
	located_end	5898288		
CH321-06A12 3L	1520026	1608026	estimated_end	1520026
	located_end	1608026		
CH321-06A17 3L	10452489	10540489	estimated_end	10452489
	located_end	10540489		
CH321-06A18 2L	7896915	7984915	estimated_end	7896915
	located_end	7984915		
CH321-06A19 3R	16057146	16145146	estimated_end	16057146
	located_end	16145146		
CH321-06B02 4	479531	567531	located_end	479531
	estimated_end	567531		
CH321-06B04 2L	3071121	3159121	located_end	3071121
	estimated_end	3159121		
CH321-06B07 2RHet	3215076	3303076	located_end	3215076
	estimated_end	3303076		
CH321-06B15 3R	20660665	20748665	estimated_end	20660665
	located_end	20748665		
CH321-06B17 X	96220	184220	located_end	96220
	184220		estimated_end	
CH321-06B18 ArmU	7844917	7932917	located_end	7844917
	estimated_end	7932917		
CH321-06B19 2L	16685122	16773122	located_end	16685122
	estimated_end	16773122		
CH321-06B21 X	7939816	8027816	estimated_end	7939816
	located_end	8027816		

CH321-06B23 2L	1025753	1113753	estimated_end	1025753
	located_end	1113753		
CH321-06C02 X	2803562	2891562	located_end	2803562
	estimated_end	2891562		
CH321-06C06 2R	2726396	2814396	estimated_end	2726396
	located_end	2814396		
CH321-06C08 2R	5428037	5516037	located_end	5428037
	estimated_end	5516037		
CH321-06C11 3R	1588444	1676444	located_end	1588444
	estimated_end	1676444		
CH321-06C12 X	9825304	9913304	located_end	9825304
	estimated_end	9913304		
CH321-06C13 2R	2533208	2621208	estimated_end	2533208
	located_end	2621208		
CH321-06C20 3R	25210225	25298225	located_end	25210225
	estimated_end	25298225		
CH321-06D03 3L	13292605	13380605	estimated_end	13292605
	located_end	13380605		
CH321-06D04 X	19123543	19211543	estimated_end	19123543
	located_end	19211543		
CH321-06D06 2R	9155362	9243362	estimated_end	9155362
	located_end	9243362		
CH321-06D07 3L	5463777	5551777	located_end	5463777
	estimated_end	5551777		
CH321-06D08 3L	3721900	3809900	estimated_end	3721900
	located_end	3809900		
CH321-06D11 3R	23090834	23178834	estimated_end	23090834
	located_end	23178834		
CH321-06D14 2L	6174155	6262155	located_end	6174155
	estimated_end	6262155		
CH321-06D17 3L	5577251	5665251	estimated_end	5577251
	located_end	5665251		
CH321-06D18 3R	990538	1078538	estimated_end	990538
	located_end	1078538		
CH321-06D19 2R	12398938	12486938	estimated_end	12398938
	located_end	12486938		
CH321-06D20 3R	12939643	13027643	located_end	12939643
	estimated_end	13027643		
CH321-06D23 2L	7078143	7166143	estimated_end	7078143
	located_end	7166143		
CH321-06E02 3R	22940277	23028277	located_end	22940277
	estimated_end	23028277		
CH321-06E05 3L	693509	781509	located_end	693509
	estimated_end	781509		
CH321-06E06 2R	6175661	6263661	located_end	6175661
	estimated_end	6263661		
CH321-06E08 3R	5205421	5293421	estimated_end	5205421
	located_end	5293421		
CH321-06E09 3L	7679750	7767750	estimated_end	7679750
	located_end	7767750		
CH321-06E10 3L	16417207	16505207	estimated_end	16417207
	located_end	16505207		
CH321-06E13 2R	17084276	17172276	located_end	17084276
	estimated_end	17172276		

CH321-06E17 X	17053667	17141667	located_end	17053667
	estimated_end	17141667		
CH321-06E20 2R	16457224	16545224	located_end	16457224
	estimated_end	16545224		
CH321-06E21 3R	22457975	22545975	located_end	22457975
	estimated_end	22545975		
CH321-06E22 3L	3744542	3832542	located_end	3744542
	estimated_end	3832542		
CH321-06E23 2R	12304442	12392442	located_end	12304442
	estimated_end	12392442		
CH321-06F01 2R	15061233	15149233	located_end	15061233
	estimated_end	15149233		
CH321-06F03 2L	612433	700433	located_end	612433
	estimated_end	700433		
CH321-06F05 3L	2409840	2497840	estimated_end	2409840
	located_end	2497840		
CH321-06F06 X	3338233	3426233	estimated_end	3338233
	located_end	3426233		
CH321-06F07 3R	8547390	8635390	estimated_end	8547390
	located_end	8635390		
CH321-06F08 3R	26152457	26240457	estimated_end	26152457
	located_end	26240457		
CH321-06F10 3L	16872034	16960034	estimated_end	16872034
	located_end	16960034		
CH321-06F11 3R	18342120	18430120	estimated_end	18342120
	located_end	18430120		
CH321-06F12 X	13612022	13700022	estimated_end	13612022
	located_end	13700022		
CH321-06F13 3R	11084599	11172599	estimated_end	11084599
	located_end	11172599		
CH321-06F14 2L	16619063	16707063	located_end	16619063
	estimated_end	16707063		
CH321-06F16 3L	12016614	12104614	located_end	12016614
	estimated_end	12104614		
CH321-06F17 2R	12674983	12762983	located_end	12674983
	estimated_end	12762983		
CH321-06F19 2L	17285676	17373676	estimated_end	17285676
	located_end	17373676		
CH321-06F21 3R	381358	469358	estimated_end	381358
	located_end	469358		
CH321-06F22 2R	10382812	10470812	estimated_end	10382812
	located_end	10470812		
CH321-06F23 2R	10259735	10347735	located_end	10259735
	estimated_end	10347735		
CH321-06F24 2R	13404872	13492872	estimated_end	13404872
	located_end	13492872		
CH321-06G01 3L	14600914	14688914	located_end	14600914
	estimated_end	14688914		
CH321-06G02 2R	13221210	13309210	located_end	13221210
	estimated_end	13309210		
CH321-06G03 2R	1231077	1319077	located_end	1231077
	estimated_end	1319077		
CH321-06G04 2L	12716938	12804938	located_end	12716938
	estimated_end	12804938		

CH321-06G05 3L	16390793	16478793	located_end	16390793
	estimated_end	16478793		
CH321-06G06 3L	18326190	18414190	estimated_end	18326190
	located_end	18414190		
CH321-06G07 3R	11886525	11974525	estimated_end	11886525
	located_end	11974525		
CH321-06G08 X	7785447	7873447	located_end	7785447
	estimated_end	7873447		
CH321-06G09 2L	8526416	8614416	located_end	8526416
	estimated_end	8614416		
CH321-06G12 3R	18046424	18134424	located_end	18046424
	estimated_end	18134424		
CH321-06G14 3R	4981122	5069122	located_end	4981122
	estimated_end	5069122		
CH321-06G16 2R	6219695	6307695	estimated_end	6219695
	located_end	6307695		
CH321-06G18 3R	14455508	14543508	located_end	14455508
	estimated_end	14543508		
CH321-06G22 2RHet	612980	700980	estimated_end	612980
	located_end	700980		
CH321-06G23 3L	15152557	15240557	estimated_end	15152557
	located_end	15240557		
CH321-06G24 X	14991227	15079227	estimated_end	14991227
	located_end	15079227		
CH321-06H01 3L	21073402	21161402	located_end	21073402
	estimated_end	21161402		
CH321-06H02 3R	14797881	14885881	estimated_end	14797881
	located_end	14885881		
CH321-06H03 3LHet	503682	591682	located_end	503682
	estimated_end	591682		
CH321-06H06 3L	10507727	10595727	estimated_end	10507727
	located_end	10595727		
CH321-06H07 2L	9792698	9880698	estimated_end	9792698
	located_end	9880698		
CH321-06H09 3L	84432	172432	estimated_end	84432
	located_end	172432	located_end	172432
CH321-06H11 2L	5752478	5840478	located_end	5752478
	estimated_end	5840478		
CH321-06H14 X	731993	819993	estimated_end	731993
	located_end	819993		
CH321-06H17 2L	17895427	17983427	located_end	17895427
	estimated_end	17983427		
CH321-06H18 2L	5230702	5318702	located_end	5230702
	estimated_end	5318702		
CH321-06H20 X	17242831	17330831	located_end	17242831
	estimated_end	17330831		
CH321-06H22 2RHet	3181899	3269899	located_end	3181899
	estimated_end	3269899		
CH321-06H23 2L	242069	330069	estimated_end	242069
	located_end	330069		
CH321-06H24 3L	17638609	17726609	located_end	17638609
	estimated_end	17726609		
CH321-06I01 3L	11088652	11176652	estimated_end	11088652
	located_end	11176652		

CH321-06I03 3L	5891556	5979556	estimated_end	5891556
	located_end	5979556		
CH321-06I04 2L	7021257	7109257	estimated_end	7021257
	located_end	7109257		
CH321-06I05 2L	10470195	10558195	located_end	10470195
	estimated_end	10558195		
CH321-06I09 3R	16916043	17004043	estimated_end	16916043
	located_end	17004043		
CH321-06I10 3L	20693640	20781640	located_end	20693640
	estimated_end	20781640		
CH321-06I16 X	10384595	10472595	estimated_end	10384595
	located_end	10472595		
CH321-06I18 2R	19204 107204		estimated_end	19204 located_end
	107204			
CH321-06I19 3R	7063619	7151619	estimated_end	7063619
	located_end	7151619		
CH321-06I20 3L	3106639	3194639	estimated_end	3106639
	located_end	3194639		
CH321-06I21 2L	17086595	17174595	located_end	17086595
	estimated_end	17174595		
CH321-06I22 3R	3260524	3348524	located_end	3260524
	estimated_end	3348524		
CH321-06I23 X	4893553	4981553	located_end	4893553
	estimated_end	4981553		
CH321-06J02 3R	8955028	9043028	estimated_end	8955028
	located_end	9043028		
CH321-06J04 3R	10531246	10619246	located_end	10531246
	estimated_end	10619246		
CH321-06J05 3R	3947289	4035289	located_end	3947289
	estimated_end	4035289		
CH321-06J07 X	5337415	5425415	estimated_end	5337415
	located_end	5425415		
CH321-06J11 2L	10852064	10940064	located_end	10852064
	estimated_end	10940064		
CH321-06J12 X	16633792	16721792	estimated_end	16633792
	located_end	16721792		
CH321-06J16 2L	9417525	9505525	estimated_end	9417525
	located_end	9505525		
CH321-06J17 3L	15703190	15791190	located_end	15703190
	estimated_end	15791190		
CH321-06J19 3R	14321480	14409480	located_end	14321480
	estimated_end	14409480		
CH321-06J21 2L	11163372	11251372	located_end	11163372
	estimated_end	11251372		
CH321-06J22 3L	14988710	15076710	estimated_end	14988710
	located_end	15076710		
CH321-06J23 2L	19348524	19436524	estimated_end	19348524
	located_end	19436524		
CH321-06K03 X	8803233	8891233	located_end	8803233
	estimated_end	8891233		
CH321-06K04 2R	3389294	3477294	located_end	3389294
	estimated_end	3477294		
CH321-06K06 X	19796578	19884578	located_end	19796578
	estimated_end	19884578		

CH321-06K07 X	16710697	16798697	estimated_end	16710697
	located_end	16798697		
CH321-06K10 2L	17507589	17595589	estimated_end	17507589
	located_end	17595589		
CH321-06K11 2R	8241793	8329793	located_end	8241793
	estimated_end	8329793		
CH321-06K12 3R	27410640	27498640	located_end	27410640
	estimated_end	27498640		
CH321-06K14 3L	3715420	3803420	estimated_end	3715420
	located_end	3803420		
CH321-06K15 3R	17212692	17300692	located_end	17212692
	estimated_end	17300692		
CH321-06K16 2RHet	581714	669714	estimated_end	581714
	located_end	669714		
CH321-06K17 2R	6343815	6431815	estimated_end	6343815
	located_end	6431815		
CH321-06K18 X	9658325	9746325	located_end	9658325
	estimated_end	9746325		
CH321-06K19 X	11861866	11949866	estimated_end	11861866
	located_end	11949866		
CH321-06K20 3L	14496079	14584079	located_end	14496079
	estimated_end	14584079		
CH321-06K23 2R	17877473	17965473	estimated_end	17877473
	located_end	17965473		
CH321-06K24 3L	23050207	23138207	estimated_end	23050207
	located_end	23138207		
CH321-06L03 2RHet	1904809	1992809	estimated_end	1904809
	located_end	1992809		
CH321-06L04 3R	20092733	20180733	located_end	20092733
	estimated_end	20180733		
CH321-06L05 3R	6494002	6582002	located_end	6494002
	estimated_end	6582002		
CH321-06L06 3R	4276525	4364525	estimated_end	4276525
	located_end	4364525		
CH321-06L07 2L	12498237	12586237	estimated_end	12498237
	located_end	12586237		
CH321-06L08 X	2598863	2686863	estimated_end	2598863
	located_end	2686863		
CH321-06L09 X	4342238	4430238	located_end	4342238
	estimated_end	4430238		
CH321-06L11 2R	20762344	20850344	estimated_end	20762344
	located_end	20850344		
CH321-06L12 3L	11948823	12036823	estimated_end	11948823
	located_end	12036823		
CH321-06L16 2R	10506289	10594289	estimated_end	10506289
	located_end	10594289		
CH321-06L18 X	14540273	14628273	located_end	14540273
	estimated_end	14628273		
CH321-06L21 2L	10061199	10149199	estimated_end	10061199
	located_end	10149199		
CH321-06L23 3LHet	859014	947014	estimated_end	859014
	located_end	947014		
CH321-06L24 2L	19794897	19882897	estimated_end	19794897
	located_end	19882897		

CH321-06M04 3L	13120989	13208989	estimated_end	13120989
	located_end	13208989		
CH321-06M05 2R	5850719	5938719	estimated_end	5850719
	located_end	5938719		
CH321-06M06 3L	17722123	17810123	located_end	17722123
	estimated_end	17810123		
CH321-06M12 2R	15586476	15674476	located_end	15586476
	estimated_end	15674476		
CH321-06M16 2R	12707003	12795003	located_end	12707003
	estimated_end	12795003		
CH321-06M17 2R	7776827	7864827	located_end	7776827
	estimated_end	7864827		
CH321-06M18 3R	1146196	1234196	estimated_end	1146196
	located_end	1234196		
CH321-06M19 3R	11193629	11281629	estimated_end	11193629
	located_end	11281629		
CH321-06M20 2L	2994224	3082224	estimated_end	2994224
	located_end	3082224		
CH321-06M22 3L	19988757	20076757	estimated_end	19988757
	located_end	20076757		
CH321-06M23 X	11287928	11375928	located_end	11287928
	estimated_end	11375928		
CH321-06M24 3R	10951237	11039237	estimated_end	10951237
	located_end	11039237		
CH321-06N04 X	12669935	12757935	estimated_end	12669935
	located_end	12757935		
CH321-06N06 2R	15135163	15223163	located_end	15135163
	estimated_end	15223163		
CH321-06N08 3R	25635091	25723091	located_end	25635091
	estimated_end	25723091		
CH321-06N09 3R	21790833	21878833	located_end	21790833
	estimated_end	21878833		
CH321-06N10 ArmU	4144808	4232808	located_end	4144808
	estimated_end	4232808		
CH321-06N11 2R	15687728	15775728	located_end	15687728
	estimated_end	15775728		
CH321-06N12 3LHet	2127816	2215816	located_end	2127816
	estimated_end	2215816		
CH321-06N13 3L	9593312	9681312	located_end	9593312
	estimated_end	9681312		
CH321-06N14 2R	11872123	11960123	located_end	11872123
	estimated_end	11960123		
CH321-06N15 3L	18704967	18792967	estimated_end	18704967
	located_end	18792967		
CH321-06N17 2R	17278618	17366618	located_end	17278618
	estimated_end	17366618		
CH321-06N18 3RHet	800643	888643	estimated_end	800643
	located_end	888643		
CH321-06N20 X	9303956	9391956	located_end	9303956
	estimated_end	9391956		
CH321-06N21 X	7672862	7760862	located_end	7672862
	estimated_end	7760862		
CH321-06N22 3R	22797387	22885387	estimated_end	22797387
	located_end	22885387		

CH321-06N24 3R	22593873	22681873	located_end	22593873
	estimated_end	22681873		
CH321-06O02 X	5801026	5889026	located_end	5801026
	estimated_end	5889026		
CH321-06O04 3L	12068918	12156918	located_end	12068918
	estimated_end	12156918		
CH321-06O05 3R	22527473	22615473	estimated_end	22527473
	located_end	22615473		
CH321-06O13 3L	1787380	1875380	estimated_end	1787380
	located_end	1875380		
CH321-06O15 3L	20102414	20190414	located_end	20102414
	estimated_end	20190414		
CH321-06O16 3L	10160412	10248412	estimated_end	10160412
	located_end	10248412		
CH321-06O17 3R	14907009	14995009	located_end	14907009
	estimated_end	14995009		
CH321-06O21 ArmU	8840056	8928056	located_end	8840056
	estimated_end	8928056		
CH321-06O22 2R	11491578	11579578	estimated_end	11491578
	located_end	11579578		
CH321-06P01 2R	6290297	6378297	located_end	6290297
	estimated_end	6378297		
CH321-06P02 3R	1813775	1901775	located_end	1813775
	estimated_end	1901775		
CH321-06P03 X	9546786	9634786	located_end	9546786
	estimated_end	9634786		
CH321-06P05 X	13185336	13273336	estimated_end	13185336
	located_end	13273336		
CH321-06P06 3R	11387206	11475206	estimated_end	11387206
	located_end	11475206		
CH321-06P12 2R	15024297	15112297	estimated_end	15024297
	located_end	15112297		
CH321-06P14 ArmU	1188496	1276496	located_end	1188496
	estimated_end	1276496		
CH321-06P23 3L	18865851	18953851	estimated_end	18865851
	located_end	18953851		
CH321-06P24 2L	8691598	8779598	estimated_end	8691598
	located_end	8779598		
CH321-07A01 2R	17984668	18072668	estimated_end	17984668
	located_end	18072668		
CH321-07A02 3R	10321428	10409428	estimated_end	10321428
	located_end	10409428		
CH321-07A03 2L	11175787	11263787	estimated_end	11175787
	located_end	11263787		
CH321-07A07 3L	19239214	19327214	estimated_end	19239214
	located_end	19327214		
CH321-07A09 3R	6856714	6944714	located_end	6856714
	estimated_end	6944714		
CH321-07A10 X	14158063	14246063	located_end	14158063
	estimated_end	14246063		
CH321-07A12 3R	17292431	17380431	estimated_end	17292431
	located_end	17380431		
CH321-07A13 3R	19225823	19313823	estimated_end	19225823
	located_end	19313823		

CH321-07A15 2R	13381218	13469218	located_end	13381218
	estimated_end	13469218		
CH321-07A16 2L	1703511	1791511	located_end	1703511
	estimated_end	1791511		
CH321-07A17 3R	23535493	23623493	estimated_end	23535493
	located_end	23623493		
CH321-07A22 X	21001765	21089765	estimated_end	21001765
	located_end	21089765		
CH321-07A23 3R	15416852	15504852	located_end	15416852
	estimated_end	15504852		
CH321-07B01 3R	16207979	16295979	estimated_end	16207979
	located_end	16295979		
CH321-07B02 3L	5556544	5644544	estimated_end	5556544
	located_end	5644544		
CH321-07B03 3L	20432390	20520390	located_end	20432390
	estimated_end	20520390		
CH321-07B05 2R	9564560	9652560	estimated_end	9564560
	located_end	9652560		
CH321-07B07 3R	13135035	13223035	located_end	13135035
	estimated_end	13223035		
CH321-07B09 3R	15223456	15311456	located_end	15223456
	estimated_end	15311456		
CH321-07B10 3R	24991986	25079986	located_end	24991986
	estimated_end	25079986		
CH321-07B11 3L	3106705	3194705	estimated_end	3106705
	located_end	3194705		
CH321-07B12 X	10233408	10321408	estimated_end	10233408
	located_end	10321408		
CH321-07B13 3R	11786495	11874495	estimated_end	11786495
	located_end	11874495		
CH321-07B14 2R	16461776	16549776	estimated_end	16461776
	located_end	16549776		
CH321-07B15 X	16296833	16384833	located_end	16296833
	estimated_end	16384833		
CH321-07B16 2R	13629643	13717643	estimated_end	13629643
	located_end	13717643		
CH321-07B18 3R	2379616	2467616	estimated_end	2379616
	located_end	2467616		
CH321-07B19 3R	7064815	7152815	estimated_end	7064815
	located_end	7152815		
CH321-07B21 2L	13311271	13399271	estimated_end	13311271
	located_end	13399271		
CH321-07B22 3R	13916081	14004081	estimated_end	13916081
	located_end	14004081		
CH321-07B24 2R	4882504	4970504	estimated_end	4882504
	located_end	4970504		
CH321-07C01 3R	8732106	8820106	estimated_end	8732106
	located_end	8820106		
CH321-07C02 X	4881554	4969554	estimated_end	4881554
	located_end	4969554		
CH321-07C04 2L	20288863	20376863	located_end	20288863
	estimated_end	20376863		
CH321-07C05 2R	1112061	1200061	estimated_end	1112061
	located_end	1200061		

CH321-07C06 X	6717788	6805788	located_end 6717788
	estimated_end	6805788	
CH321-07C07 3R	11153232	11241232	located_end 11153232
	estimated_end	11241232	
CH321-07C09 3R	5947673	6035673	located_end 5947673
	estimated_end	6035673	
CH321-07C10 3R	10952591	11040591	estimated_end 10952591
	located_end	11040591	
CH321-07C11 3LHet	607896	695896	located_end 607896
	estimated_end	695896	
CH321-07C12 3R	25271285	25359285	estimated_end 25271285
	located_end	25359285	
CH321-07C13 2L	14839089	14927089	estimated_end 14839089
	located_end	14927089	
CH321-07C14 2L	15434551	15522551	estimated_end 15434551
	located_end	15522551	
CH321-07C15 3L	20688229	20776229	estimated_end 20688229
	located_end	20776229	
CH321-07C16 3R	7424822	7512822	located_end 7424822
	estimated_end	7512822	
CH321-07C17 2L	16495924	16583924	located_end 16495924
	estimated_end	16583924	
CH321-07C18 2R	6089385	6177385	estimated_end 6089385
	located_end	6177385	
CH321-07C19 3L	439476	527476	located_end 439476
	estimated_end	527476	
CH321-07C20 2L	8235350	8323350	estimated_end 8235350
	located_end	8323350	
CH321-07C21 3R	5846208	5934208	located_end 5846208
	estimated_end	5934208	
CH321-07C22 3L	12905550	12993550	located_end 12905550
	estimated_end	12993550	
CH321-07C23 2R	6083589	6171589	located_end 6083589
	estimated_end	6171589	
CH321-07D02 3R	2741677	2829677	located_end 2741677
	estimated_end	2829677	
CH321-07D04 3R	5199367	5287367	estimated_end 5199367
	located_end	5287367	
CH321-07D08 2L	4225786	4313786	located_end 4225786
	estimated_end	4313786	
CH321-07D10 2L	10772159	10860159	estimated_end 10772159
	located_end	10860159	
CH321-07D11 2L	12891427	12979427	estimated_end 12891427
	located_end	12979427	
CH321-07D12 2R	14209246	14297246	estimated_end 14209246
	located_end	14297246	
CH321-07D13 2L	10340547	10428547	estimated_end 10340547
	located_end	10428547	
CH321-07D15 2L	21382623	21470623	located_end 21382623
	estimated_end	21470623	
CH321-07D17 X	20130674	20218674	estimated_end 20130674
	located_end	20218674	
CH321-07D19 X	9364127	9452127	estimated_end 9364127
	located_end	9452127	

CH321-07D20 3R	17469726	17557726	located_end 17469726
estimated_end	17557726		
CH321-07D22 2L	4167906	4255906	located_end 4167906
estimated_end	4255906		
CH321-07D24 X	6892722	6980722	estimated_end 6892722
located_end	6980722		
CH321-07E01 3R	27153336	27241336	located_end 27153336
estimated_end	27241336		
CH321-07E03 X	5280286	5368286	located_end 5280286
estimated_end	5368286		
CH321-07E04 2L	13129366	13217366	estimated_end 13129366
located_end	13217366		
CH321-07E05 X	12146373	12234373	located_end 12146373
estimated_end	12234373		
CH321-07E06 X	19243882	19331882	located_end 19243882
estimated_end	19331882		
CH321-07E07 2R	17367253	17455253	estimated_end 17367253
located_end	17455253		
CH321-07E10 3R	14893521	14981521	located_end 14893521
estimated_end	14981521		
CH321-07E13 2L	255177	343177	estimated_end 255177
located_end	343177		
CH321-07E14 3R	18605721	18693721	located_end 18605721
estimated_end	18693721		
CH321-07E15 2R	18102520	18190520	located_end 18102520
estimated_end	18190520		
CH321-07E16 3R	20821751	20909751	estimated_end 20821751
located_end	20909751		
CH321-07E17 2R	13042119	13130119	located_end 13042119
estimated_end	13130119		
CH321-07E18 2R	1301147	1389147	estimated_end 1301147
located_end	1389147		
CH321-07E20 3R	26019201	26107201	estimated_end 26019201
located_end	26107201		
CH321-07E21 2R	20897169	20985169	estimated_end 20897169
located_end	20985169		
CH321-07E22 X	13041005	13129005	located_end 13041005
estimated_end	13129005		
CH321-07F01 3R	7882332	7970332	located_end 7882332
estimated_end	7970332		
CH321-07F02 2RHet	1963092	2051092	located_end 1963092
estimated_end	2051092		
CH321-07F03 3R	17963125	18051125	estimated_end 17963125
located_end	18051125		
CH321-07F04 2L	595987	683987	located_end 595987
estimated_end	683987		
CH321-07F05 2L	2878806	2966806	estimated_end 2878806
located_end	2966806		
CH321-07F06 2L	22247765	22335765	estimated_end 22247765
located_end	22335765		
CH321-07F07 2R	3713392	3801392	estimated_end 3713392
located_end	3801392		
CH321-07F08 2R	8050998	8138998	estimated_end 8050998
located_end	8138998		

CH321-07F09 2L	20888033	20976033	estimated_end	20888033
	located_end	20976033		
CH321-07F10 X	14504182	14592182	located_end	14504182
	estimated_end	14592182		
CH321-07F11 3R	2170042	2258042	located_end	2170042
	estimated_end	2258042		
CH321-07F13 2L	15790799	15878799	estimated_end	15790799
	located_end	15878799		
CH321-07F17 3R	26588639	26676639	estimated_end	26588639
	located_end	26676639		
CH321-07F18 2L	1073251	1161251	located_end	1073251
	estimated_end	1161251		
CH321-07F20 2L	10066153	10154153	estimated_end	10066153
	located_end	10154153		
CH321-07F22 2L	16597104	16685104	estimated_end	16597104
	located_end	16685104		
CH321-07G01 2R	15060065	15148065	estimated_end	15060065
	located_end	15148065		
CH321-07G02 3R	25567454	25655454	estimated_end	25567454
	located_end	25655454		
CH321-07G04 3L	2928141	3016141	estimated_end	2928141
	located_end	3016141		
CH321-07G05 2L	6531286	6619286	located_end	6531286
	estimated_end	6619286		
CH321-07G06 3L	23316272	23404272	located_end	23316272
	estimated_end	23404272		
CH321-07G07 X	21357939	21445939	located_end	21357939
	estimated_end	21445939		
CH321-07G08 3R	5691175	5779175	located_end	5691175
	estimated_end	5779175		
CH321-07G09 3R	24848352	24936352	estimated_end	24848352
	located_end	24936352		
CH321-07G10 3LHet	457289	545289	located_end	457289
	estimated_end	545289		
CH321-07G11 2R	18151786	18239786	located_end	18151786
	estimated_end	18239786		
CH321-07G13 2R	19878855	19966855	located_end	19878855
	estimated_end	19966855		
CH321-07G14 2R	13313952	13401952	estimated_end	13313952
	located_end	13401952		
CH321-07G15 3R	6759654	6847654	estimated_end	6759654
	located_end	6847654		
CH321-07G16 2R	5462504	5550504	located_end	5462504
	estimated_end	5550504		
CH321-07G17 X	3518572	3606572	estimated_end	3518572
	located_end	3606572		
CH321-07G18 3R	2843974	2931974	estimated_end	2843974
	located_end	2931974		
CH321-07G19 2R	14163029	14251029	located_end	14163029
	estimated_end	14251029		
CH321-07G20 X	7488115	7576115	located_end	7488115
	estimated_end	7576115		
CH321-07G23 2R	11919599	12007599	estimated_end	11919599
	located_end	12007599		

CH321-07H02 2R	10563573	10651573	estimated_end	10563573
	located_end	10651573		
CH321-07H06 3R	935925	1023925	located_end	935925
	estimated_end	1023925		
CH321-07H09 2R	15979548	16067548	located_end	15979548
	estimated_end	16067548		
CH321-07H10 3L	15442402	15530402	located_end	15442402
	estimated_end	15530402		
CH321-07H11 2R	13095146	13183146	estimated_end	13095146
	located_end	13183146		
CH321-07H12 3R	7901432	7989432	located_end	7901432
	estimated_end	7989432		
CH321-07H13 2L	8940669	9028669	estimated_end	8940669
	located_end	9028669		
CH321-07H14 3L	15539837	15627837	located_end	15539837
	estimated_end	15627837		
CH321-07H15 3L	16196630	16284630	estimated_end	16196630
	located_end	16284630		
CH321-07H16 X	8505374	8593374	located_end	8505374
	estimated_end	8593374		
CH321-07H19 2L	17292671	17380671	estimated_end	17292671
	located_end	17380671		
CH321-07H23 3R	1922723	2010723	located_end	1922723
	estimated_end	2010723		
CH321-07I01 3L	17272626	17360626	located_end	17272626
	estimated_end	17360626		
CH321-07I02 3R	11644798	11732798	located_end	11644798
	estimated_end	11732798		
CH321-07I03 2R	15237777	15325777	estimated_end	15237777
	located_end	15325777		
CH321-07I04 3R	21745196	21833196	located_end	21745196
	estimated_end	21833196		
CH321-07I05 3R	21134667	21222667	estimated_end	21134667
	located_end	21222667		
CH321-07I07 3R	18970397	19058397	estimated_end	18970397
	located_end	19058397		
CH321-07I08 X	14669230	14757230	estimated_end	14669230
	located_end	14757230		
CH321-07I09 2RHet	1329888	1417888	estimated_end	1329888
	located_end	1417888		
CH321-07I10 3R	21754056	21842056	estimated_end	21754056
	located_end	21842056		
CH321-07I11 3R	6286523	6374523	estimated_end	6286523
	located_end	6374523		
CH321-07I12 2L	8759518	8847518	estimated_end	8759518
	located_end	8847518		
CH321-07I13 3R	13344763	13432763	estimated_end	13344763
	located_end	13432763		
CH321-07I18 2L	6560097	6648097	located_end	6560097
	estimated_end	6648097		
CH321-07I20 3RHet	1222423	1310423	located_end	1222423
	estimated_end	1310423		
CH321-07I23 3L	6792396	6880396	estimated_end	6792396
	located_end	6880396		

CH321-07I24 3L	6792396	6880396	estimated_end	6792396
	located_end	6880396		
CH321-07J01 3R	24486082	24574082	estimated_end	24486082
	located_end	24574082		
CH321-07J02 3R	357457	445457	located_end	357457
	estimated_end	445457		
CH321-07J03 X	9667644	9755644	located_end	9667644
	estimated_end	9755644		
CH321-07J04 2R	15844623	15932623	estimated_end	15844623
	located_end	15932623		
CH321-07J05 3LHet	844205	932205	estimated_end	844205
	located_end	932205		
CH321-07J06 X	20808601	20896601	located_end	20808601
	estimated_end	20896601		
CH321-07J07 3L	14450343	14538343	located_end	14450343
	estimated_end	14538343		
CH321-07J08 2L	13707750	13795750	estimated_end	13707750
	located_end	13795750		
CH321-07J10 3R	20300190	20388190	located_end	20300190
	estimated_end	20388190		
CH321-07J12 3L	20485952	20573952	estimated_end	20485952
	located_end	20573952		
CH321-07J13 3R	10463385	10551385	located_end	10463385
	estimated_end	10551385		
CH321-07J14 3L	7725168	7813168	located_end	7725168
	estimated_end	7813168		
CH321-07J15 2R	6974241	7062241	located_end	6974241
	estimated_end	7062241		
CH321-07J16 3L	2591594	2679594	estimated_end	2591594
	located_end	2679594		
CH321-07J17 2R	18937930	19025930	located_end	18937930
	estimated_end	19025930		
CH321-07J18 3L	19303492	19391492	located_end	19303492
	estimated_end	19391492		
CH321-07J20 2L	14933211	15021211	located_end	14933211
	estimated_end	15021211		
CH321-07J23 X	12540574	12628574	located_end	12540574
	estimated_end	12628574		
CH321-07J24 2R	6058081	6146081	estimated_end	6058081
	located_end	6146081		
CH321-07K02 3L	19229584	19317584	estimated_end	19229584
	located_end	19317584		
CH321-07K04 2L	6276577	6364577	located_end	6276577
	estimated_end	6364577		
CH321-07K05 3L	10366011	10454011	estimated_end	10366011
	located_end	10454011		
CH321-07K06 3R	7059685	7147685	located_end	7059685
	estimated_end	7147685		
CH321-07K07 3R	10070677	10158677	located_end	10070677
	estimated_end	10158677		
CH321-07K08 2L	6493752	6581752	located_end	6493752
	estimated_end	6581752		
CH321-07K09 2L	4729424	4817424	estimated_end	4729424
	located_end	4817424		

CH321-07K10 2R	5565152	5653152	located_end	5565152
	estimated_end	5653152		
CH321-07K11 3R	1738444	1826444	estimated_end	1738444
	located_end	1826444		
CH321-07K12 X	18842066	18930066	located_end	18842066
	estimated_end	18930066		
CH321-07K13 3R	3573435	3661435	located_end	3573435
	estimated_end	3661435		
CH321-07K14 3R	16408881	16496881	estimated_end	16408881
	located_end	16496881		
CH321-07K15 2L	11717623	11805623	estimated_end	11717623
	located_end	11805623		
CH321-07K16 3L	3204288	3292288	located_end	3204288
	estimated_end	3292288		
CH321-07K21 3LHet	1310410	1398410	estimated_end	1310410
	located_end	1398410		
CH321-07K22 X	11456981	11544981	located_end	11456981
	estimated_end	11544981		
CH321-07K23 3R	4717443	4805443	located_end	4717443
	estimated_end	4805443		
CH321-07K24 3R	13589846	13677846	estimated_end	13589846
	located_end	13677846		
CH321-07L01 3L	3847700	3935700	estimated_end	3847700
	located_end	3935700		
CH321-07L02 2L	16527631	16615631	located_end	16527631
	estimated_end	16615631		
CH321-07L04 3R	17970376	18058376	estimated_end	17970376
	located_end	18058376		
CH321-07L05 3L	8358851	8446851	estimated_end	8358851
	located_end	8446851		
CH321-07L06 3R	22142449	22230449	located_end	22142449
	estimated_end	22230449		
CH321-07L07 3R	63854	151854	located_end	63854
	151854	estimated_end		
CH321-07L08 2R	7020102	7108102	estimated_end	7020102
	located_end	7108102		
CH321-07L09 X	8869714	8957714	estimated_end	8869714
	located_end	8957714		
CH321-07L10 2L	6064374	6152374	located_end	6064374
	estimated_end	6152374		
CH321-07L13 2R	8554060	8642060	estimated_end	8554060
	located_end	8642060		
CH321-07L14 3R	12041617	12129617	located_end	12041617
	estimated_end	12129617		
CH321-07L18 3L	7855595	7943595	estimated_end	7855595
	located_end	7943595		
CH321-07L21 2L	19438085	19526085	estimated_end	19438085
	located_end	19526085		
CH321-07L24 2L	2636130	2724130	located_end	2636130
	estimated_end	2724130		
CH321-07M01 3L	11815931	11903931	estimated_end	11815931
	located_end	11903931		
CH321-07M02 3R	24425282	24513282	located_end	24425282
	estimated_end	24513282		

CH321-07M03 3L	20445274	20533274	located_end	20445274
	estimated_end	20533274		
CH321-07M05 3L	16925515	17013515	estimated_end	16925515
	located_end	17013515		
CH321-07M06 2L	5023266	5111266	estimated_end	5023266
	located_end	5111266		
CH321-07M08 3L	18331099	18419099	estimated_end	18331099
	located_end	18419099		
CH321-07M09 3R	8081355	8169355	located_end	8081355
	estimated_end	8169355		
CH321-07M10 3L	16569029	16657029	estimated_end	16569029
	located_end	16657029		
CH321-07M11 2L	9323743	9411743	estimated_end	9323743
	located_end	9411743		
CH321-07M13 2R	5548584	5636584	located_end	5548584
	estimated_end	5636584		
CH321-07M14 2L	1824419	1912419	located_end	1824419
	estimated_end	1912419		
CH321-07M15 3L	10912881	11000881	located_end	10912881
	estimated_end	11000881		
CH321-07M16 3R	6251622	6339622	located_end	6251622
	estimated_end	6339622		
CH321-07M17 2L	453087	541087	estimated_end	453087
	located_end	541087		
CH321-07M18 3R	4904459	4992459	estimated_end	4904459
	located_end	4992459		
CH321-07M21 3R	21533147	21621147	located_end	21533147
	estimated_end	21621147		
CH321-07M23 3R	9983399	10071399	located_end	9983399
	estimated_end	10071399		
CH321-07N01 3R	5726021	5814021	estimated_end	5726021
	located_end	5814021		
CH321-07N02 2R	16532288	16620288	located_end	16532288
	estimated_end	16620288		
CH321-07N03 2L	7665038	7753038	located_end	7665038
	estimated_end	7753038		
CH321-07N04 3R	16668220	16756220	located_end	16668220
	estimated_end	16756220		
CH321-07N05 3R	21531652	21619652	estimated_end	21531652
	located_end	21619652		
CH321-07N06 3L	6470221	6558221	located_end	6470221
	estimated_end	6558221		
CH321-07N07 3R	10140012	10228012	located_end	10140012
	estimated_end	10228012		
CH321-07N09 2R	11464273	11552273	located_end	11464273
	estimated_end	11552273		
CH321-07N10 3L	17950763	18038763	estimated_end	17950763
	located_end	18038763		
CH321-07N11 X	11231002	11319002	located_end	11231002
	estimated_end	11319002		
CH321-07N12 3L	17989142	18077142	estimated_end	17989142
	located_end	18077142		
CH321-07N13 2R	18612771	18700771	estimated_end	18612771
	located_end	18700771		

CH321-07N14 2L	12827297	12915297	estimated_end	12827297
	located_end	12915297		
CH321-07N16 2R	703806	791806	estimated_end	703806
	located_end	791806		
CH321-07N17 2L	7582004	7670004	located_end	7582004
	estimated_end	7670004		
CH321-07N18 2L	18881349	18969349	estimated_end	18881349
	located_end	18969349		
CH321-07N22 2RHet	1717091	1805091	located_end	1717091
	estimated_end	1805091		
CH321-07N24 2L	14933211	15021211	located_end	14933211
	estimated_end	15021211		
CH321-07O01 3R	15740469	15828469	located_end	15740469
	estimated_end	15828469		
CH321-07O02 2R	8562178	8650178	estimated_end	8562178
	located_end	8650178		
CH321-07O05 ArmU	41091 129091		located_end	41091 estimated_end
	129091			
CH321-07O06 3R	11320716	11408716	estimated_end	11320716
	located_end	11408716		
CH321-07O07 X	17611287	17699287	estimated_end	17611287
	located_end	17699287		
CH321-07O08 2R	16293329	16381329	estimated_end	16293329
	located_end	16381329		
CH321-07O09 3R	14244163	14332163	estimated_end	14244163
	located_end	14332163		
CH321-07O10 X	201813	289813	estimated_end	201813
	located_end	289813		
CH321-07O11 X	12798920	12886920	located_end	12798920
	estimated_end	12886920		
CH321-07O12 2R	16039248	16127248	located_end	16039248
	estimated_end	16127248		
CH321-07O14 2L	15917847	16005847	located_end	15917847
	estimated_end	16005847		
CH321-07O15 3R	26604263	26692263	located_end	26604263
	estimated_end	26692263		
CH321-07O16 3R	12640743	12728743	estimated_end	12640743
	located_end	12728743		
CH321-07O18 2L	7181483	7269483	estimated_end	7181483
	located_end	7269483		
CH321-07O19 3L	15666994	15754994	estimated_end	15666994
	located_end	15754994		
CH321-07P01 2R	9688002	9776002	located_end	9688002
	estimated_end	9776002		
CH321-07P02 3R	1062343	1150343	located_end	1062343
	estimated_end	1150343		
CH321-07P03 3L	2397709	2485709	located_end	2397709
	estimated_end	2485709		
CH321-07P04 X	9479292	9567292	estimated_end	9479292
	located_end	9567292		
CH321-07P05 3LHet	1332986	1420986	located_end	1332986
	estimated_end	1420986		
CH321-07P07 3RHet	1896970	1984970	located_end	1896970
	estimated_end	1984970		

CH321-07P09 2R	4547494	4635494	located_end	4547494
	estimated_end	4635494		
CH321-07P10 2R	14194160	14282160	estimated_end	14194160
	located_end	14282160		
CH321-07P11 3R	25764966	25852966	estimated_end	25764966
	located_end	25852966		
CH321-07P12 2L	3185753	3273753	located_end	3185753
	estimated_end	3273753		
CH321-07P15 3L	20708158	20796158	estimated_end	20708158
	located_end	20796158		
CH321-07P16 X	5380567	5468567	located_end	5380567
	estimated_end	5468567		
CH321-07P17 3L	10657215	10745215	located_end	10657215
	estimated_end	10745215		
CH321-07P19 X	2163052	2251052	located_end	2163052
	estimated_end	2251052		
CH321-07P21 X	8048310	8136310	located_end	8048310
	estimated_end	8136310		
CH321-07P24 3L	7628817	7716817	estimated_end	7628817
	located_end	7716817		
CH321-08A20 X	20176318	20264318	estimated_end	20176318
	located_end	20264318		
CH321-08B02 ArmU	4873236	4961236	located_end	4873236
	estimated_end	4961236		
CH321-08B09 3RHet	142760	230760	located_end	142760
	estimated_end	230760		
CH321-08B16 3L	10257990	10345990	located_end	10257990
	estimated_end	10345990		
CH321-08B19 3R	13743711	13831711	estimated_end	13743711
	located_end	13831711		
CH321-08B20 3R	15419424	15507424	estimated_end	15419424
	located_end	15507424		
CH321-08C02 X	2391151	2479151	estimated_end	2391151
	located_end	2479151		
CH321-08C04 2R	13625535	13713535	located_end	13625535
	estimated_end	13713535		
CH321-08C07 3L	17503468	17591468	estimated_end	17503468
	located_end	17591468		
CH321-08C15 3L	8070381	8158381	located_end	8070381
	estimated_end	8158381		
CH321-08C18 3L	8629703	8717703	located_end	8629703
	estimated_end	8717703		
CH321-08C19 2L	5160139	5248139	estimated_end	5160139
	located_end	5248139		
CH321-08C24 3R	2654246	2742246	located_end	2654246
	estimated_end	2742246		
CH321-08D07 3L	6235485	6323485	located_end	6235485
	estimated_end	6323485		
CH321-08D08 2RHet	1449983	1537983	located_end	1449983
	estimated_end	1537983		
CH321-08D10 3LHet	731817	819817	located_end	731817
	estimated_end	819817		
CH321-08D11 3R	19262308	19350308	located_end	19262308
	estimated_end	19350308		

CH321-08D14 2R	13841213	13929213	estimated_end	13841213
	located_end	13929213		
CH321-08D18 2R	1952940	2040940	located_end	1952940
	estimated_end	2040940		
CH321-08E08 3R	21603741	21691741	located_end	21603741
	estimated_end	21691741		
CH321-08E18 2L	9863323	9951323	located_end	9863323
	estimated_end	9951323		
CH321-08E19 3L	18203567	18291567	located_end	18203567
	estimated_end	18291567		
CH321-08F03 3L	13857734	13945734	estimated_end	13857734
	located_end	13945734		
CH321-08F20 2L	18294068	18382068	located_end	18294068
	estimated_end	18382068		
CH321-08F21 2R	11324282	11412282	estimated_end	11324282
	located_end	11412282		
CH321-08G03 2R	20862675	20950675	estimated_end	20862675
	located_end	20950675		
CH321-08G04 3R	20243250	20331250	located_end	20243250
	estimated_end	20331250		
CH321-08G05 3L	20008506	20096506	located_end	20008506
	estimated_end	20096506		
CH321-08G09 X	16773451	16861451	estimated_end	16773451
	located_end	16861451		
CH321-08G10 2L	8482963	8570963	located_end	8482963
	estimated_end	8570963		
CH321-08G16 3R	4677551	4765551	located_end	4677551
	estimated_end	4765551		
CH321-08G21 3R	17864489	17952489	estimated_end	17864489
	located_end	17952489		
CH321-08G22 2R	13024838	13112838	located_end	13024838
	estimated_end	13112838		
CH321-08H08 3R	2079998	2167998	located_end	2079998
	estimated_end	2167998		
CH321-08H14 3L	3733360	3821360	located_end	3733360
	estimated_end	3821360		
CH321-08H15 2R	19412445	19500445	estimated_end	19412445
	located_end	19500445		
CH321-08H16 3L	11776207	11864207	located_end	11776207
	estimated_end	11864207		
CH321-08H18 3R	13236323	13324323	located_end	13236323
	estimated_end	13324323		
CH321-08I03 2L	5110089	5198089	located_end	5110089
	estimated_end	5198089		
CH321-08I04 3L	20506097	20594097	estimated_end	20506097
	located_end	20594097		
CH321-08I07 2L	10479558	10567558	estimated_end	10479558
	located_end	10567558		
CH321-08I11 2L	18591333	18679333	located_end	18591333
	estimated_end	18679333		
CH321-08I14 2L	12676959	12764959	estimated_end	12676959
	located_end	12764959		
CH321-08I24 3L	7399986	7487986	estimated_end	7399986
	located_end	7487986		

CH321-08J12 X	1143826	1231826	estimated_end	1143826
	located_end	1231826		
CH321-08J14 2L	18400193	18488193	located_end	18400193
	estimated_end	18488193		
CH321-08J17 3R	682334	770334	estimated_end	682334
	located_end	770334		
CH321-08J24 3RHet	1978602	2066602	located_end	1978602
	estimated_end	2066602		
CH321-08K04 2L	7394813	7482813	located_end	7394813
	estimated_end	7482813		
CH321-08K05 X	9751503	9839503	located_end	9751503
	estimated_end	9839503		
CH321-08K21 2L	13634623	13722623	estimated_end	13634623
	located_end	13722623		
CH321-08L05 2L	19228210	19316210	estimated_end	19228210
	located_end	19316210		
CH321-08L06 ArmU	9388346	9476346	estimated_end	9388346
	located_end	9476346		
CH321-08L09 3L	13547349	13635349	estimated_end	13547349
	located_end	13635349		
CH321-08L12 X	14890387	14978387	located_end	14890387
	estimated_end	14978387		
CH321-08L14 3RHet	654233	742233	located_end	654233
	estimated_end	742233		
CH321-08L18 3R	16276510	16364510	located_end	16276510
	estimated_end	16364510		
CH321-08L23 3R	11435776	11523776	located_end	11435776
	estimated_end	11523776		
CH321-08L24 X	11016528	11104528	located_end	11016528
	estimated_end	11104528		
CH321-08M01 2L	22471186	22559186	located_end	22471186
	estimated_end	22559186		
CH321-08M02 3R	20345448	20433448	located_end	20345448
	estimated_end	20433448		
CH321-08M05 X	13777005	13865005	located_end	13777005
	estimated_end	13865005		
CH321-08M06 3L	19328967	19416967	located_end	19328967
	estimated_end	19416967		
CH321-08M22 X	20453620	20541620	located_end	20453620
	estimated_end	20541620		
CH321-08M24 3R	1724332	1812332	located_end	1724332
	estimated_end	1812332		
CH321-08N05 2L	9088785	9176785	located_end	9088785
	estimated_end	9176785		
CH321-08N06 X	8916498	9004498	estimated_end	8916498
	located_end	9004498		
CH321-08N10 3L	13546970	13634970	located_end	13546970
	estimated_end	13634970		
CH321-08N11 2R	10396940	10484940	estimated_end	10396940
	located_end	10484940		
CH321-08N17 3L	14206200	14294200	located_end	14206200
	estimated_end	14294200		
CH321-08N19 3L	11330672	11418672	estimated_end	11330672
	located_end	11418672		

CH321-08N21 3R	7936071	8024071	estimated_end	7936071
	located_end	8024071		
CH321-08N22 X	17184614	17272614	estimated_end	17184614
	located_end	17272614		
CH321-08N24 X	11685327	11773327	located_end	11685327
	estimated_end	11773327		
CH321-08O04 3L	9534233	9622233	estimated_end	9534233
	located_end	9622233		
CH321-08O09 3L	13742963	13830963	estimated_end	13742963
	located_end	13830963		
CH321-08O10 2L	18186821	18274821	located_end	18186821
	estimated_end	18274821		
CH321-08O11 3L	20437496	20525496	estimated_end	20437496
	located_end	20525496		
CH321-08O12 3L	10866034	10954034	estimated_end	10866034
	located_end	10954034		
CH321-08O15 2R	10587928	10675928	estimated_end	10587928
	located_end	10675928		
CH321-08O18 X	10173413	10261413	estimated_end	10173413
	located_end	10261413		
CH321-08O20 3L	14672342	14760342	located_end	14672342
	estimated_end	14760342		
CH321-08O24 3L	19032847	19120847	located_end	19032847
	estimated_end	19120847		
CH321-08P03 3L	23495989	23583989	estimated_end	23495989
	located_end	23583989		
CH321-08P06 3R	6731479	6819479	estimated_end	6731479
	located_end	6819479		
CH321-08P07 3L	20697121	20785121	located_end	20697121
	estimated_end	20785121		
CH321-08P20 X	5677436	5765436	estimated_end	5677436
	located_end	5765436		
CH321-08P23 2L	2814048	2902048	estimated_end	2814048
	located_end	2902048		
CH321-09A02 2L	11645145	11733145	located_end	11645145
	estimated_end	11733145		
CH321-09A13 2L	3063997	3151997	located_end	3063997
	estimated_end	3151997		
CH321-09A23 3RHet	603955	691955	located_end	603955
	estimated_end	691955		
CH321-09A24 3R	10860731	10948731	estimated_end	10860731
	located_end	10948731		
CH321-09B08 3L	23972382	24060382	estimated_end	23972382
	located_end	24060382		
CH321-09B11 2R	10492215	10580215	located_end	10492215
	estimated_end	10580215		
CH321-09B21 ArmU	4389077	4477077	estimated_end	4389077
	located_end	4477077		
CH321-09B23 2R	16448469	16536469	estimated_end	16448469
	located_end	16536469		
CH321-09C07 4	125039	213039	located_end	125039
	estimated_end	213039		
CH321-09C12 3R	19027870	19115870	located_end	19027870
	estimated_end	19115870		

CH321-09C13 2R	13414135	13502135	located_end	13414135
	estimated_end	13502135		
CH321-09D01 2R	9872569	9960569	estimated_end	9872569
	located_end	9960569		
CH321-09D14 ArmU	6071778	6159778	estimated_end	6071778
	located_end	6159778		
CH321-09E01 2L	1857566	1945566	estimated_end	1857566
	located_end	1945566		
CH321-09E11 3L	2441473	2529473	located_end	2441473
	estimated_end	2529473		
CH321-09E12 3LHet	1892141	1980141	located_end	1892141
	estimated_end	1980141		
CH321-09E24 X	21522773	21610773	estimated_end	21522773
	located_end	21610773		
CH321-09F01 2L	2023808	2111808	estimated_end	2023808
	located_end	2111808		
CH321-09F03 2L	5139325	5227325	located_end	5139325
	estimated_end	5227325		
CH321-09F13 ArmU	5214537	5302537	located_end	5214537
	estimated_end	5302537		
CH321-09F19 ArmU	7899402	7987402	located_end	7899402
	estimated_end	7987402		
CH321-09G02 3L	23874213	23962213	located_end	23874213
	estimated_end	23962213		
CH321-09G07 2L	11338806	11426806	estimated_end	11338806
	located_end	11426806		
CH321-09G08 3R	21123422	21211422	located_end	21123422
	estimated_end	21211422		
CH321-09H02 2R	4388739	4476739	located_end	4388739
	estimated_end	4476739		
CH321-09H03 2R	9611804	9699804	estimated_end	9611804
	located_end	9699804		
CH321-09H11 3R	2502998	2590998	located_end	2502998
	estimated_end	2590998		
CH321-09H24 2R	19589251	19677251	estimated_end	19589251
	located_end	19677251		
CH321-09I01 3R	6944157	7032157	estimated_end	6944157
	located_end	7032157		
CH321-09I05 X	2516363	2604363	located_end	2516363
	estimated_end	2604363		
CH321-09I24 3L	6688124	6776124	located_end	6688124
	estimated_end	6776124		
CH321-09J11 2R	20549040	20637040	estimated_end	20549040
	located_end	20637040		
CH321-09J24 2R	14455336	14543336	estimated_end	14455336
	located_end	14543336		
CH321-09K18 2R	9327464	9415464	estimated_end	9327464
	located_end	9415464		
CH321-09M01 3R	26325892	26413892	located_end	26325892
	estimated_end	26413892		
CH321-09M02 3R	11540709	11628709	estimated_end	11540709
	located_end	11628709		
CH321-09M21 3R	19669441	19757441	estimated_end	19669441
	located_end	19757441		

CH321-09M24 3R	25197738	25285738	estimated_end	25197738
	located_end	25285738		
CH321-09N01 X	4153535	4241535	estimated_end	4153535
	located_end	4241535		
CH321-09N12 X	22195567	22283567	located_end	22195567
	estimated_end	22283567		
CH321-09N19 2R	-66528	21472	estimated_end	-66528
	located_end	21472		
CH321-09N24 X	11485266	11573266	estimated_end	11485266
	located_end	11573266		
CH321-09O01 2L	17219445	17307445	located_end	17219445
	estimated_end	17307445		
CH321-09O03 2L	16838117	16926117	located_end	16838117
	estimated_end	16926117		
CH321-09O17 3R	20272609	20360609	estimated_end	20272609
	located_end	20360609		
CH321-09O21 3L	20172967	20260967	located_end	20172967
	estimated_end	20260967		
CH321-09O23 3LHet	319278	407278	estimated_end	319278
	located_end	407278		
CH321-09P01 3R	4907243	4995243	located_end	4907243
	estimated_end	4995243		
CH321-09P03 3R	8724508	8812508	located_end	8724508
	estimated_end	8812508		
CH321-09P04 2R	20949750	21037750	located_end	20949750
	estimated_end	21037750		
CH321-09P06 3L	1745991	1833991	estimated_end	1745991
	located_end	1833991		
CH321-09P10 2R	18068245	18156245	estimated_end	18068245
	located_end	18156245		
CH321-09P12 3L	5229285	5317285	estimated_end	5229285
	located_end	5317285		
CH321-09P13 3L	23814078	23902078	estimated_end	23814078
	located_end	23902078		
CH321-09P15 3L	19353674	19441674	located_end	19353674
	estimated_end	19441674		
CH321-09P22 3L	3475750	3563750	estimated_end	3475750
	located_end	3563750		
CH321-10A10 3L	23737590	23825590	located_end	23737590
	estimated_end	23825590		
CH321-10A12 3L	7741728	7829728	located_end	7741728
	estimated_end	7829728		
CH321-10A19 3R	17403737	17491737	located_end	17403737
	estimated_end	17491737		
CH321-10B04 X	16770952	16858952	estimated_end	16770952
	located_end	16858952		
CH321-10B13 3R	22487800	22575800	estimated_end	22487800
	located_end	22575800		
CH321-10B16 2R	17228605	17316605	located_end	17228605
	estimated_end	17316605		
CH321-10B17 2L	8520887	8608887	located_end	8520887
	estimated_end	8608887		
CH321-10B20 3R	7503731	7591731	estimated_end	7503731
	located_end	7591731		

CH321-10B22 2R	20294058	20382058	estimated_end	20294058
	located_end	20382058		
CH321-10B24 2L	19917448	20005448	estimated_end	19917448
	located_end	20005448		
CH321-10C07 3R	4986368	5074368	located_end	4986368
	estimated_end	5074368		
CH321-10C12 2L	6725351	6813351	estimated_end	6725351
	located_end	6813351		
CH321-10C14 3R	8866014	8954014	estimated_end	8866014
	located_end	8954014		
CH321-10C22 3R	11482199	11570199	estimated_end	11482199
	located_end	11570199		
CH321-10D04 3L	22086657	22174657	estimated_end	22086657
	located_end	22174657		
CH321-10D07 3L	1356286	1444286	estimated_end	1356286
	located_end	1444286		
CH321-10D10 X	990035	1078035	estimated_end	990035
	located_end	1078035		
CH321-10D12 3L	20522796	20610796	estimated_end	20522796
	located_end	20610796		
CH321-10D14 3L	22397071	22485071	located_end	22397071
	estimated_end	22485071		
CH321-10D17 3L	12215345	12303345	estimated_end	12215345
	located_end	12303345		
CH321-10D18 2R	6355061	6443061	estimated_end	6355061
	located_end	6443061		
CH321-10D20 3L	2658428	2746428	located_end	2658428
	estimated_end	2746428		
CH321-10E06 3R	8019590	8107590	estimated_end	8019590
	located_end	8107590		
CH321-10E09 3L	17586688	17674688	estimated_end	17586688
	located_end	17674688		
CH321-10E10 3R	8113533	8201533	estimated_end	8113533
	located_end	8201533		
CH321-10E16 3L	7289981	7377981	estimated_end	7289981
	located_end	7377981		
CH321-10E18 3R	10153948	10241948	located_end	10153948
	estimated_end	10241948		
CH321-10E19 3R	12634950	12722950	located_end	12634950
	estimated_end	12722950		
CH321-10F02 2R	11230312	11318312	estimated_end	11230312
	located_end	11318312		
CH321-10F03 2R	11230312	11318312	estimated_end	11230312
	located_end	11318312		
CH321-10F05 2R	15461376	15549376	estimated_end	15461376
	located_end	15549376		
CH321-10F09 3R	4073659	4161659	located_end	4073659
	estimated_end	4161659		
CH321-10F12 2R	773756	861756	located_end	773756
	estimated_end	861756		
CH321-10F13 3R	23804148	23892148	located_end	23804148
	estimated_end	23892148		
CH321-10F18 3R	4884991	4972991	located_end	4884991
	estimated_end	4972991		

CH321-10G07 3R	338505	426505	estimated_end	338505
	located_end	426505		
CH321-10G09 3R	11252325	11340325	estimated_end	11252325
	located_end	11340325		
CH321-10G10 3R	27070982	27158982	located_end	27070982
	estimated_end	27158982		
CH321-10G11 3L	4541679	4629679	located_end	4541679
	estimated_end	4629679		
CH321-10G19 2R	14920497	15008497	located_end	14920497
	estimated_end	15008497		
CH321-10G22 3RHet	1701763	1789763	located_end	1701763
	estimated_end	1789763		
CH321-10H02 3L	66218	154218	located_end	66218
	estimated_end	154218		
CH321-10H04 3L	16326566	16414566	located_end	16326566
	estimated_end	16414566		
CH321-10H07 2R	20709634	20797634	estimated_end	20709634
	located_end	20797634		
CH321-10H08 2R	5963972	6051972	located_end	5963972
	estimated_end	6051972		
CH321-10H09 3L	15747723	15835723	located_end	15747723
	estimated_end	15835723		
CH321-10H12 2L	13371203	13459203	located_end	13371203
	estimated_end	13459203		
CH321-10H13 2L	1889943	1977943	estimated_end	1889943
	located_end	1977943		
CH321-10H14 3R	17319320	17407320	located_end	17319320
	estimated_end	17407320		
CH321-10H15 X	4601986	4689986	located_end	4601986
	estimated_end	4689986		
CH321-10H16 3R	9891556	9979556	located_end	9891556
	estimated_end	9979556		
CH321-10H18 3R	12535863	12623863	located_end	12535863
	estimated_end	12623863		
CH321-10H21 2R	11894168	11982168	located_end	11894168
	estimated_end	11982168		
CH321-10I04 2R	17599213	17687213	estimated_end	17599213
	located_end	17687213		
CH321-10I07 2R	5876171	5964171	estimated_end	5876171
	located_end	5964171		
CH321-10I11 2R	8429875	8517875	located_end	8429875
	estimated_end	8517875		
CH321-10I13 2R	9897015	9985015	located_end	9897015
	estimated_end	9985015		
CH321-10I15 3R	11514849	11602849	estimated_end	11514849
	located_end	11602849		
CH321-10I17 2R	20388838	20476838	estimated_end	20388838
	located_end	20476838		
CH321-10I20 3L	19514220	19602220	estimated_end	19514220
	located_end	19602220		
CH321-10J02 3R	17614687	17702687	located_end	17614687
	estimated_end	17702687		
CH321-10J04 X	16412346	16500346	estimated_end	16412346
	located_end	16500346		

CH321-10J07 3R	16012947	16100947	estimated_end	16012947
	located_end	16100947		
CH321-10J08 2L	6056489	6144489	estimated_end	6056489
	located_end	6144489		
CH321-10J12 2L	10645373	10733373	estimated_end	10645373
	located_end	10733373		
CH321-10J17 3R	27358927	27446927	located_end	27358927
	estimated_end	27446927		
CH321-10J20 3R	14751154	14839154	estimated_end	14751154
	located_end	14839154		
CH321-10K01 3R	27210626	27298626	located_end	27210626
	estimated_end	27298626		
CH321-10K03 ArmU	1187968	1275968	located_end	1187968
	estimated_end	1275968		
CH321-10K05 2L	7553950	7641950	estimated_end	7553950
	located_end	7641950		
CH321-10K06 3R	23393937	23481937	estimated_end	23393937
	located_end	23481937		
CH321-10K07 3R	14737186	14825186	estimated_end	14737186
	located_end	14825186		
CH321-10K13 2L	14530278	14618278	located_end	14530278
	estimated_end	14618278		
CH321-10K15 2L	15748350	15836350	located_end	15748350
	estimated_end	15836350		
CH321-10K20 3R	3439296	3527296	located_end	3439296
	estimated_end	3527296		
CH321-10K21 3L	20833413	20921413	estimated_end	20833413
	located_end	20921413		
CH321-10L01 X	10223685	10311685	located_end	10223685
	estimated_end	10311685		
CH321-10L02 3L	1625218	1713218	estimated_end	1625218
	located_end	1713218		
CH321-10L03 3R	442442	530442	estimated_end	442442
	located_end	530442		
CH321-10L05 3R	26504239	26592239	estimated_end	26504239
	located_end	26592239		
CH321-10L08 3R	11814437	11902437	estimated_end	11814437
	located_end	11902437		
CH321-10L13 3L	4991957	5079957	estimated_end	4991957
	located_end	5079957		
CH321-10L15 2R	13406027	13494027	estimated_end	13406027
	located_end	13494027		
CH321-10L17 X	20532685	20620685	located_end	20532685
	estimated_end	20620685		
CH321-10L23 2R	15645328	15733328	estimated_end	15645328
	located_end	15733328		
CH321-10L24 3L	1057909	1145909	located_end	1057909
	estimated_end	1145909		
CH321-10M01 2L	16110811	16198811	estimated_end	16110811
	located_end	16198811		
CH321-10M02 2L	15732382	15820382	located_end	15732382
	estimated_end	15820382		
CH321-10M04 3L	4365129	4453129	located_end	4365129
	estimated_end	4453129		

CH321-10M06 2L	10369549	10457549	estimated_end	10369549
	located_end	10457549		
CH321-10M07 3R	8888072	8976072	located_end	8888072
	estimated_end	8976072		
CH321-10M09 3R	4644491	4732491	located_end	4644491
	estimated_end	4732491		
CH321-10M12 2R	15373644	15461644	estimated_end	15373644
	located_end	15461644		
CH321-10M14 2R	10747471	10835471	located_end	10747471
	estimated_end	10835471		
CH321-10M22 3L	8091686	8179686	located_end	8091686
	estimated_end	8179686		
CH321-10M23 3L	6311547	6399547	located_end	6311547
	estimated_end	6399547		
CH321-10N02 3L	20529138	20617138	located_end	20529138
	estimated_end	20617138		
CH321-10N07 2L	10004719	10092719	estimated_end	10004719
	located_end	10092719		
CH321-10N14 X	19213094	19301094	estimated_end	19213094
	located_end	19301094		
CH321-10N17 3R	19856342	19944342	located_end	19856342
	estimated_end	19944342		
CH321-10N18 3L	16758233	16846233	estimated_end	16758233
	located_end	16846233		
CH321-10N22 3L	13390286	13478286	located_end	13390286
	estimated_end	13478286		
CH321-10N23 2L	17573586	17661586	estimated_end	17573586
	located_end	17661586		
CH321-10N24 3R	11698655	11786655	estimated_end	11698655
	located_end	11786655		
CH321-10O02 X	13792555	13880555	located_end	13792555
	estimated_end	13880555		
CH321-10O03 2R	9061345	9149345	estimated_end	9061345
	located_end	9149345		
CH321-10O07 3L	23299381	23387381	estimated_end	23299381
	located_end	23387381		
CH321-10O12 X	10928128	11016128	estimated_end	10928128
	located_end	11016128		
CH321-10O15 2R	1522761	1610761	located_end	1522761
	estimated_end	1610761		
CH321-10O17 2R	15288602	15376602	located_end	15288602
	estimated_end	15376602		
CH321-10O19 2R	8825836	8913836	estimated_end	8825836
	located_end	8913836		
CH321-10O20 3L	18782204	18870204	estimated_end	18782204
	located_end	18870204		
CH321-10O22 2L	5618920	5706920	estimated_end	5618920
	located_end	5706920		
CH321-10O23 3R	10766220	10854220	located_end	10766220
	estimated_end	10854220		
CH321-10O24 3L	18323127	18411127	located_end	18323127
	estimated_end	18411127		
CH321-10P02 2L	18971188	19059188	located_end	18971188
	estimated_end	19059188		

CH321-10P03 3L	6522877	6610877	estimated_end	6522877
	located_end	6610877		
CH321-10P04 ArmU	9707934	9795934	estimated_end	9707934
	located_end	9795934		
CH321-10P05 3L	16776059	16864059	estimated_end	16776059
	located_end	16864059		
CH321-10P06 3L	16578378	16666378	estimated_end	16578378
	located_end	16666378		
CH321-10P07 3L	8039766	8127766	located_end	8039766
	estimated_end	8127766		
CH321-10P10 3R	8551710	8639710	estimated_end	8551710
	located_end	8639710		
CH321-10P11 X	6471829	6559829	located_end	6471829
	estimated_end	6559829		
CH321-10P12 3R	25337024	25425024	located_end	25337024
	estimated_end	25425024		
CH321-10P16 3R	7328870	7416870	estimated_end	7328870
	located_end	7416870		
CH321-10P17 2L	3182035	3270035	estimated_end	3182035
	located_end	3270035		
CH321-10P18 3L	20952526	21040526	located_end	20952526
	estimated_end	21040526		
CH321-10P22 2L	9330776	9418776	estimated_end	9330776
	located_end	9418776		
CH321-11A14 3L	13105126	13193126	estimated_end	13105126
	located_end	13193126		
CH321-11A17 3R	4514660	4602660	estimated_end	4514660
	located_end	4602660		
CH321-11A20 2R	10878213	10966213	located_end	10878213
	estimated_end	10966213		
CH321-11A24 ArmU	1752457	1840457	estimated_end	1752457
	located_end	1840457		
CH321-11B03 3L	7224448	7312448	located_end	7224448
	estimated_end	7312448		
CH321-11B11 2R	182156	270156	located_end	182156
	estimated_end	270156		
CH321-11B17 2L	13096764	13184764	located_end	13096764
	estimated_end	13184764		
CH321-11B23 2R	2498234	2586234	estimated_end	2498234
	located_end	2586234		
CH321-11C02 X	6769157	6857157	estimated_end	6769157
	located_end	6857157		
CH321-11C08 2R	1554995	1642995	located_end	1554995
	estimated_end	1642995		
CH321-11C09 3L	362687	450687	estimated_end	362687
	located_end	450687		
CH321-11C12 2R	1205444	1293444	estimated_end	1205444
	located_end	1293444		
CH321-11C13 X	22094487	22182487	estimated_end	22094487
	located_end	22182487		
CH321-11C14 2L	14360595	14448595	located_end	14360595
	estimated_end	14448595		
CH321-11C16 X	8234190	8322190	estimated_end	8234190
	located_end	8322190		

CH321-11C17 2L	19102380	19190380	estimated_end	19102380
	located_end	19190380		
CH321-11D07 2L	13790344	13878344	located_end	13790344
	estimated_end	13878344		
CH321-11D08 2L	2288774	2376774	located_end	2288774
	estimated_end	2376774		
CH321-11D11 X	497303	585303	located_end	497303
	estimated_end	585303		
CH321-11D12 2L	18810246	18898246	located_end	18810246
	estimated_end	18898246		
CH321-11D14 2L	8956309	9044309	estimated_end	8956309
	located_end	9044309		
CH321-11D18 2R	1118075	1206075	estimated_end	1118075
	located_end	1206075		
CH321-11D19 2R	14454129	14542129	estimated_end	14454129
	located_end	14542129		
CH321-11D23 3L	11448112	11536112	estimated_end	11448112
	located_end	11536112		
CH321-11D24 X	946394	1034394	estimated_end	946394
	located_end	1034394		
CH321-11E02 2R	17324694	17412694	located_end	17324694
	estimated_end	17412694		
CH321-11E03 X	9799067	9887067	located_end	9799067
	estimated_end	9887067		
CH321-11E04 3L	13802913	13890913	estimated_end	13802913
	located_end	13890913		
CH321-11E05 2R	18793919	18881919	estimated_end	18793919
	located_end	18881919		
CH321-11E09 3L	7805950	7893950	estimated_end	7805950
	located_end	7893950		
CH321-11E11 3L	711184	799184	located_end	711184
	estimated_end	799184		
CH321-11E12 3R	12525906	12613906	estimated_end	12525906
	located_end	12613906		
CH321-11E15 3R	14955778	15043778	estimated_end	14955778
	located_end	15043778		
CH321-11E17 3L	21708547	21796547	estimated_end	21708547
	located_end	21796547		
CH321-11E19 2R	5491885	5579885	located_end	5491885
	estimated_end	5579885		
CH321-11E23 3L	7923967	8011967	estimated_end	7923967
	located_end	8011967		
CH321-11F02 3L	4646953	4734953	located_end	4646953
	estimated_end	4734953		
CH321-11F03 3R	14113835	14201835	located_end	14113835
	estimated_end	14201835		
CH321-11F05 2L	17510038	17598038	located_end	17510038
	estimated_end	17598038		
CH321-11F06 3R	23246620	23334620	located_end	23246620
	estimated_end	23334620		
CH321-11F07 2R	19226365	19314365	estimated_end	19226365
	located_end	19314365		
CH321-11F08 2R	20689619	20777619	estimated_end	20689619
	located_end	20777619		

CH321-11F11 2L	21041677	21129677	estimated_end	21041677
	located_end	21129677		
CH321-11F13 3LHet	942617	1030617	located_end	942617
	estimated_end	1030617		
CH321-11F15 2L	3265345	3353345	estimated_end	3265345
	located_end	3353345		
CH321-11F18 X	21184114	21272114	located_end	21184114
	estimated_end	21272114		
CH321-11F19 3R	15003581	15091581	located_end	15003581
	estimated_end	15091581		
CH321-11F23 3L	17109855	17197855	estimated_end	17109855
	located_end	17197855		
CH321-11G02 3L	3891863	3979863	located_end	3891863
	estimated_end	3979863		
CH321-11G03 2L	13302123	13390123	estimated_end	13302123
	located_end	13390123		
CH321-11G05 3R	906273	994273	estimated_end	906273
	located_end	994273		
CH321-11G06 3R	1448895	1536895	estimated_end	1448895
	located_end	1536895		
CH321-11G08 3R	6339954	6427954	located_end	6339954
	estimated_end	6427954		
CH321-11G09 3R	5093069	5181069	located_end	5093069
	estimated_end	5181069		
CH321-11G11 2L	11010825	11098825	located_end	11010825
	estimated_end	11098825		
CH321-11G16 3L	20513534	20601534	located_end	20513534
	estimated_end	20601534		
CH321-11G20 3L	12904397	12992397	estimated_end	12904397
	located_end	12992397		
CH321-11G21 3R	15227531	15315531	estimated_end	15227531
	located_end	15315531		
CH321-11G22 2R	7300942	7388942	estimated_end	7300942
	located_end	7388942		
CH321-11H01 3R	5984482	6072482	estimated_end	5984482
	located_end	6072482		
CH321-11H03 3RHet	2067152	2155152	estimated_end	2067152
	located_end	2155152		
CH321-11H05 2L	11814686	11902686	estimated_end	11814686
	located_end	11902686		
CH321-11H07 X	16746695	16834695	estimated_end	16746695
	located_end	16834695		
CH321-11H11 3L	19857208	19945208	located_end	19857208
	estimated_end	19945208		
CH321-11H16 2R	11928827	12016827	estimated_end	11928827
	located_end	12016827		
CH321-11H17 3L	10531706	10619706	estimated_end	10531706
	located_end	10619706		
CH321-11H18 3R	3239419	3327419	located_end	3239419
	estimated_end	3327419		
CH321-11H21 2R	20549268	20637268	estimated_end	20549268
	located_end	20637268		
CH321-11I01 3R	1507307	1595307	located_end	1507307
	estimated_end	1595307		

CH321-11I02 3R	9320043	9408043	estimated_end	9320043
	located_end	9408043		
CH321-11I03 X	20545017	20633017	estimated_end	20545017
	located_end	20633017		
CH321-11I07 X	7674402	7762402	estimated_end	7674402
	located_end	7762402		
CH321-11I12 ArmU	7814474	7902474	located_end	7814474
	estimated_end	7902474		
CH321-11I20 3L	19160107	19248107	estimated_end	19160107
	located_end	19248107		
CH321-11I21 2R	15071392	15159392	located_end	15071392
	estimated_end	15159392		
CH321-11I23 3L	3153738	3241738	estimated_end	3153738
	located_end	3241738		
CH321-11J03 3R	18365519	18453519	located_end	18365519
	estimated_end	18453519		
CH321-11J05 2L	2466532	2554532	estimated_end	2466532
	located_end	2554532		
CH321-11J16 3R	13889994	13977994	estimated_end	13889994
	located_end	13977994		
CH321-11J21 3R	11311328	11399328	estimated_end	11311328
	located_end	11399328		
CH321-11K02 3L	22868848	22956848	estimated_end	22868848
	located_end	22956848		
CH321-11K03 X	21013520	21101520	estimated_end	21013520
	located_end	21101520		
CH321-11K05 2L	10554106	10642106	estimated_end	10554106
	located_end	10642106		
CH321-11K07 3L	11877491	11965491	located_end	11877491
	estimated_end	11965491		
CH321-11K08 2R	13818273	13906273	located_end	13818273
	estimated_end	13906273		
CH321-11K11 3R	3444693	3532693	located_end	3444693
	estimated_end	3532693		
CH321-11K14 2L	16996053	17084053	located_end	16996053
	estimated_end	17084053		
CH321-11K15 2L	7270565	7358565	located_end	7270565
	estimated_end	7358565		
CH321-11K16 3R	11378424	11466424	located_end	11378424
	estimated_end	11466424		
CH321-11K17 X	7120591	7208591	estimated_end	7120591
	located_end	7208591		
CH321-11L06 2L	4615703	4703703	estimated_end	4615703
	located_end	4703703		
CH321-11L09 2L	13297506	13385506	located_end	13297506
	estimated_end	13385506		
CH321-11L13 3R	1298705	1386705	located_end	1298705
	estimated_end	1386705		
CH321-11L16 2R	17698812	17786812	estimated_end	17698812
	located_end	17786812		
CH321-11L17 2L	5728680	5816680	estimated_end	5728680
	located_end	5816680		
CH321-11L19 3R	13539356	13627356	located_end	13539356
	estimated_end	13627356		

CH321-11L22 2R	5849250	5937250	estimated_end	5849250
	located_end	5937250		
CH321-11L23 3R	22211630	22299630	located_end	22211630
	estimated_end	22299630		
CH321-11L24 3R	10291002	10379002	located_end	10291002
	estimated_end	10379002		
CH321-11M03 ArmU	5697737	5785737	located_end	5697737
	estimated_end	5785737		
CH321-11M04 X	12392066	12480066	estimated_end	12392066
	located_end	12480066		
CH321-11M05 ArmU	4189104	4277104	located_end	4189104
	estimated_end	4277104		
CH321-11M06 2L	5236979	5324979	located_end	5236979
	estimated_end	5324979		
CH321-11M08 2R	20998726	21086726	located_end	20998726
	estimated_end	21086726		
CH321-11M09 3L	9199058	9287058	estimated_end	9199058
	located_end	9287058		
CH321-11M12 3R	3209095	3297095	located_end	3209095
	estimated_end	3297095		
CH321-11M14 X	3797687	3885687	located_end	3797687
	estimated_end	3885687		
CH321-11M15 3L	1431736	1519736	estimated_end	1431736
	located_end	1519736		
CH321-11M16 3R	17305123	17393123	located_end	17305123
	estimated_end	17393123		
CH321-11M17 3R	18282965	18370965	estimated_end	18282965
	located_end	18370965		
CH321-11M18 2L	3129400	3217400	estimated_end	3129400
	located_end	3217400		
CH321-11M22 3R	25194065	25282065	estimated_end	25194065
	located_end	25282065		
CH321-11M24 2R	16341184	16429184	located_end	16341184
	estimated_end	16429184		
CH321-11N02 2L	11703376	11791376	estimated_end	11703376
	located_end	11791376		
CH321-11N04 3L	22531293	22619293	located_end	22531293
	estimated_end	22619293		
CH321-11N05 2L	21906054	21994054	estimated_end	21906054
	located_end	21994054		
CH321-11N10 2R	14647832	14735832	estimated_end	14647832
	located_end	14735832		
CH321-11N11 3LHet	2311658	2399658	estimated_end	2311658
	located_end	2399658		
CH321-11N13 3R	20857626	20945626	estimated_end	20857626
	located_end	20945626		
CH321-11N14 3RHet	1986220	2074220	estimated_end	1986220
	located_end	2074220		
CH321-11N19 X	10020949	10108949	located_end	10020949
	estimated_end	10108949		
CH321-11O03 3L	15870323	15958323	estimated_end	15870323
	located_end	15958323		
CH321-11O08 X	4358386	4446386	located_end	4358386
	estimated_end	4446386		

CH321-11O12 3R	234682	322682	estimated_end	234682
	located_end	322682		
CH321-11O14 3L	22361028	22449028	located_end	22361028
	estimated_end	22449028		
CH321-11O16 3L	2535088	2623088	estimated_end	2535088
	located_end	2623088		
CH321-11P07 3L	23713472	23801472	located_end	23713472
	estimated_end	23801472		
CH321-11P08 X	5436812	5524812	located_end	5436812
	estimated_end	5524812		
CH321-11P13 3L	17901550	17989550	estimated_end	17901550
	located_end	17989550		
CH321-11P15 3R	22569652	22657652	located_end	22569652
	estimated_end	22657652		
CH321-11P16 2L	22980867	23068867	located_end	22980867
	estimated_end	23068867		
CH321-11P17 2L	1287827	1375827	estimated_end	1287827
	located_end	1375827		
CH321-11P21 3R	13270785	13358785	estimated_end	13270785
	located_end	13358785		
CH321-11P22 X	14003573	14091573	estimated_end	14003573
	located_end	14091573		
CH321-11P23 3L	5199084	5287084	located_end	5199084
	estimated_end	5287084		
CH321-12A20 3LHet	941993	1029993	located_end	941993
	estimated_end	1029993		
CH321-12B01 3R	25644540	25732540	located_end	25644540
	estimated_end	25732540		
CH321-12B02 3R	16245410	16333410	located_end	16245410
	estimated_end	16333410		
CH321-12B04 3L	20013200	20101200	estimated_end	20013200
	located_end	20101200		
CH321-12B08 3R	27092462	27180462	estimated_end	27092462
	located_end	27180462		
CH321-12B20 3R	7614716	7702716	estimated_end	7614716
	located_end	7702716		
CH321-12B22 3R	4497196	4585196	estimated_end	4497196
	located_end	4585196		
CH321-12B23 3R	25137987	25225987	located_end	25137987
	estimated_end	25225987		
CH321-12C06 3L	20040486	20128486	estimated_end	20040486
	located_end	20128486		
CH321-12C07 3L	11081926	11169926	estimated_end	11081926
	located_end	11169926		
CH321-12C08 3R	183815	271815	estimated_end	183815
	located_end	271815		
CH321-12C12 3R	18970326	19058326	located_end	18970326
	estimated_end	19058326		
CH321-12C18 2L	19081690	19169690	estimated_end	19081690
	located_end	19169690		
CH321-12C22 X	15266053	15354053	located_end	15266053
	estimated_end	15354053		
CH321-12C24 3R	1483235	1571235	located_end	1483235
	estimated_end	1571235		

CH321-12D01 X	3804538	3892538	located_end	3804538
	estimated_end	3892538		
CH321-12D02 2L	12400080	12488080	located_end	12400080
	estimated_end	12488080		
CH321-12D06 ArmU	3044103	3132103	estimated_end	3044103
	located_end	3132103		
CH321-12D10 3L	11864249	11952249	located_end	11864249
	estimated_end	11952249		
CH321-12D12 3R	16498540	16586540	estimated_end	16498540
	located_end	16586540		
CH321-12D13 3L	14548176	14636176	located_end	14548176
	estimated_end	14636176		
CH321-12D14 2L	873523	961523	estimated_end	873523
	located_end	961523		
CH321-12D17 2L	15889746	15977746	located_end	15889746
	estimated_end	15977746		
CH321-12D20 3L	8479723	8567723	estimated_end	8479723
	located_end	8567723		
CH321-12D22 2R	9023801	9111801	located_end	9023801
	estimated_end	9111801		
CH321-12E03 3L	16805505	16893505	located_end	16805505
	estimated_end	16893505		
CH321-12E06 2R	4898183	4986183	located_end	4898183
	estimated_end	4986183		
CH321-12E09 3R	22083225	22171225	located_end	22083225
	estimated_end	22171225		
CH321-12E10 2L	20373954	20461954	estimated_end	20373954
	located_end	20461954		
CH321-12E11 2L	10377828	10465828	located_end	10377828
	estimated_end	10465828		
CH321-12E12 X	3972856	4060856	estimated_end	3972856
	located_end	4060856		
CH321-12E15 2R	17778740	17866740	estimated_end	17778740
	located_end	17866740		
CH321-12E16 3L	8704860	8792860	estimated_end	8704860
	located_end	8792860		
CH321-12E19 X	5518239	5606239	estimated_end	5518239
	located_end	5606239		
CH321-12E23 3L	18370993	18458993	located_end	18370993
	estimated_end	18458993		
CH321-12F05 3R	12439257	12527257	estimated_end	12439257
	located_end	12527257		
CH321-12F19 2L	19144941	19232941	estimated_end	19144941
	located_end	19232941		
CH321-12F22 3L	11521499	11609499	located_end	11521499
	estimated_end	11609499		
CH321-12F23 3L	20847232	20935232	estimated_end	20847232
	located_end	20935232		
CH321-12G07 X	9364655	9452655	estimated_end	9364655
	located_end	9452655		
CH321-12G09 2R	12662258	12750258	estimated_end	12662258
	located_end	12750258		
CH321-12H06 X	2530269	2618269	estimated_end	2530269
	located_end	2618269		

CH321-12H08 2R	1618387	1706387	located_end 1618387
estimated_end	1706387		
CH321-12H15 2R	12077587	12165587	located_end 12077587
estimated_end	12165587		
CH321-12H16 3L	2491500	2579500	estimated_end 2491500
located_end	2579500		
CH321-12H23 3L	5659810	5747810	located_end 5659810
estimated_end	5747810		
CH321-12I06 2R	12028381	12116381	located_end 12028381
estimated_end	12116381		
CH321-12I07 2R	20460721	20548721	located_end 20460721
estimated_end	20548721		
CH321-12I08 2L	8159717	8247717	estimated_end 8159717
located_end	8247717		
CH321-12I09 2L	19175228	19263228	located_end 19175228
estimated_end	19263228		
CH321-12I13 3L	22423581	22511581	located_end 22423581
estimated_end	22511581		
CH321-12I15 2R	16268982	16356982	estimated_end 16268982
located_end	16356982		
CH321-12I17 3R	9669141	9757141	located_end 9669141
estimated_end	9757141		
CH321-12I19 3L	9855726	9943726	estimated_end 9855726
located_end	9943726		
CH321-12I21 3R	2795401	2883401	estimated_end 2795401
located_end	2883401		
CH321-12I23 2L	8441273	8529273	located_end 8441273
estimated_end	8529273		
CH321-12J05 2R	2446489	2534489	estimated_end 2446489
located_end	2534489		
CH321-12J07 3R	6223633	6311633	located_end 6223633
estimated_end	6311633		
CH321-12J08 2L	12400106	12488106	located_end 12400106
estimated_end	12488106		
CH321-12J09 3R	24064616	24152616	located_end 24064616
estimated_end	24152616		
CH321-12J11 2R	18076811	18164811	estimated_end 18076811
located_end	18164811		
CH321-12J22 3L	3965403	4053403	estimated_end 3965403
located_end	4053403		
CH321-12J23 X	18653703	18741703	estimated_end 18653703
located_end	18741703		
CH321-12K03 X	10732054	10820054	located_end 10732054
estimated_end	10820054		
CH321-12K04 3L	16425615	16513615	located_end 16425615
estimated_end	16513615		
CH321-12K05 3L	6388569	6476569	located_end 6388569
estimated_end	6476569		
CH321-12K07 3R	2201704	2289704	located_end 2201704
estimated_end	2289704		
CH321-12K12 2L	3190434	3278434	estimated_end 3190434
located_end	3278434		
CH321-12K13 3L	6237258	6325258	estimated_end 6237258
located_end	6325258		

CH321-12K14 3LHet	1483371	1571371	estimated_end	1483371
	located_end	1571371		
CH321-12K15 2L	11636529	11724529	estimated_end	11636529
	located_end	11724529		
CH321-12K19 ArmU	5610831	5698831	estimated_end	5610831
	located_end	5698831		
CH321-12K20 2L	15958120	16046120	estimated_end	15958120
	located_end	16046120		
CH321-12L05 2L	21091454	21179454	located_end	21091454
	estimated_end	21179454		
CH321-12L11 X	11764298	11852298	located_end	11764298
	estimated_end	11852298		
CH321-12L12 3R	17704003	17792003	located_end	17704003
	estimated_end	17792003		
CH321-12L13 3R	5298386	5386386	located_end	5298386
	estimated_end	5386386		
CH321-12L22 2R	18271064	18359064	estimated_end	18271064
	located_end	18359064		
CH321-12L23 3R	26707683	26795683	estimated_end	26707683
	located_end	26795683		
CH321-12M05 2L	19543790	19631790	located_end	19543790
	estimated_end	19631790		
CH321-12M10 3R	7271387	7359387	estimated_end	7271387
	located_end	7359387		
CH321-12M13 X	1672847	1760847	located_end	1672847
	estimated_end	1760847		
CH321-12M21 3R	19400278	19488278	estimated_end	19400278
	located_end	19488278		
CH321-12N04 3R	10387941	10475941	located_end	10387941
	estimated_end	10475941		
CH321-12N07 2RHet	1361122	1449122	located_end	1361122
	estimated_end	1449122		
CH321-12N08 2L	8669988	8757988	located_end	8669988
	estimated_end	8757988		
CH321-12N09 2R	20257299	20345299	located_end	20257299
	estimated_end	20345299		
CH321-12N11 2R	20172948	20260948	located_end	20172948
	estimated_end	20260948		
CH321-12N17 2RHet	2376152	2464152	located_end	2376152
	estimated_end	2464152		
CH321-12N18 3R	24711447	24799447	located_end	24711447
	estimated_end	24799447		
CH321-12N22 X	14524653	14612653	located_end	14524653
	estimated_end	14612653		
CH321-12O07 2R	16269058	16357058	located_end	16269058
	estimated_end	16357058		
CH321-12O08 X	3892569	3980569	located_end	3892569
	estimated_end	3980569		
CH321-12O10 3R	1568010	1656010	estimated_end	1568010
	located_end	1656010		
CH321-12O11 ArmU	3398539	3486539	located_end	3398539
	estimated_end	3486539		
CH321-12O18 2R	2474288	2562288	located_end	2474288
	estimated_end	2562288		

CH321-12O20 3R	6055973	6143973	located_end	6055973
	estimated_end	6143973		
CH321-12O23 4	355877	443877	located_end	355877
	estimated_end	443877		
CH321-12P07 3R	19262435	19350435	estimated_end	19262435
	located_end	19350435		
CH321-12P13 3R	14866911	14954911	estimated_end	14866911
	located_end	14954911		
CH321-12P15 2R	5780662	5868662	estimated_end	5780662
	located_end	5868662		
CH321-12P20 3L	22541402	22629402	located_end	22541402
	estimated_end	22629402		
CH321-12P21 X	5301697	5389697	located_end	5301697
	estimated_end	5389697		
CH321-12P22 2R	20191943	20279943	located_end	20191943
	estimated_end	20279943		
CH321-12P23 2L	1760672	1848672	estimated_end	1760672
	located_end	1848672		
CH321-13A14 X	2596471	2684471	estimated_end	2596471
	located_end	2684471		
CH321-13A15 3L	3415892	3503892	located_end	3415892
	estimated_end	3503892		
CH321-13A22 X	19513888	19601888	estimated_end	19513888
	located_end	19601888		
CH321-13B07 X	1063283	1151283	located_end	1063283
	estimated_end	1151283		
CH321-13B14 3R	14062439	14150439	located_end	14062439
	estimated_end	14150439		
CH321-13B24 ArmU	9211595	9299595	located_end	9211595
	estimated_end	9299595		
CH321-13C01 3R	16213948	16301948	estimated_end	16213948
	located_end	16301948		
CH321-13C13 2R	6525100	6613100	located_end	6525100
	estimated_end	6613100		
CH321-13C18 3L	11687535	11775535	located_end	11687535
	estimated_end	11775535		
CH321-13D07 2L	10504451	10592451	estimated_end	10504451
	located_end	10592451		
CH321-13D11 2L	15652427	15740427	estimated_end	15652427
	located_end	15740427		
CH321-13D13 ArmU	3812408	3900408	estimated_end	3812408
	located_end	3900408		
CH321-13D14 3R	739074	827074	located_end	739074
	estimated_end	827074		
CH321-13D19 3R	15278199	15366199	estimated_end	15278199
	located_end	15366199		
CH321-13D24 4	888870	976870	located_end	888870
	estimated_end	976870		
CH321-13E07 2L	22364609	22452609	estimated_end	22364609
	located_end	22452609		
CH321-13E08 ArmU	404136	492136	estimated_end	404136
	located_end	492136		
CH321-13E13 3R	10404873	10492873	estimated_end	10404873
	located_end	10492873		

CH321-13E14 2R	8598028	8686028	estimated_end	8598028
located_end	8686028			
CH321-13E18 ArmU	9708491	9796491	estimated_end	9708491
located_end	9796491			
CH321-13E21 3L	13978961	14066961	estimated_end	13978961
located_end	14066961			
CH321-13F05 2L	7950262	8038262	estimated_end	7950262
located_end	8038262			
CH321-13F06 2L	4778490	4866490	located_end	4778490
estimated_end	4866490			
CH321-13F13 3L	11140840	11228840	estimated_end	11140840
located_end	11228840			
CH321-13F18 2L	1431380	1519380	estimated_end	1431380
located_end	1519380			
CH321-13G03 3R	18853435	18941435	located_end	18853435
estimated_end	18941435			
CH321-13G06 3R	11275156	11363156	estimated_end	11275156
located_end	11363156			
CH321-13G10 X	14849168	14937168	located_end	14849168
estimated_end	14937168			
CH321-13G16 2L	16811221	16899221	estimated_end	16811221
located_end	16899221			
CH321-13G20 2L	21141639	21229639	located_end	21141639
estimated_end	21229639			
CH321-13H06 3R	16296210	16384210	located_end	16296210
estimated_end	16384210			
CH321-13H09 3R	2765771	2853771	estimated_end	2765771
located_end	2853771			
CH321-13H14 2L	22876520	22964520	located_end	22876520
estimated_end	22964520			
CH321-13H21 3R	1832313	1920313	located_end	1832313
estimated_end	1920313			
CH321-13H22 3L	14801813	14889813	located_end	14801813
estimated_end	14889813			
CH321-13I14 3L	10143250	10231250	located_end	10143250
estimated_end	10231250			
CH321-13I17 3R	17545875	17633875	estimated_end	17545875
located_end	17633875			
CH321-13I18 3L	21919297	22007297	estimated_end	21919297
located_end	22007297			
CH321-13J05 X	17185556	17273556	located_end	17185556
estimated_end	17273556			
CH321-13J09 ArmU	9707870	9795870	estimated_end	9707870
located_end	9795870			
CH321-13J13 3R	8830961	8918961	estimated_end	8830961
located_end	8918961			
CH321-13J14 2L	6536465	6624465	estimated_end	6536465
located_end	6624465			
CH321-13J15 2L	5804676	5892676	estimated_end	5804676
located_end	5892676			
CH321-13J17 2L	14904477	14992477	estimated_end	14904477
located_end	14992477			
CH321-13J21 X	20715476	20803476	estimated_end	20715476
located_end	20803476			

CH321-13K01 3R	21962010	22050010	located_end	21962010
	estimated_end	22050010		
CH321-13K02 3L	11599797	11687797	estimated_end	11599797
	located_end	11687797		
CH321-13K05 X	17268015	17356015	estimated_end	17268015
	located_end	17356015		
CH321-13K07 3R	4898244	4986244	estimated_end	4898244
	located_end	4986244		
CH321-13K13 3L	20747208	20835208	estimated_end	20747208
	located_end	20835208		
CH321-13K17 3R	13031339	13119339	located_end	13031339
	estimated_end	13119339		
CH321-13K18 3R	17711797	17799797	located_end	17711797
	estimated_end	17799797		
CH321-13K19 3R	5061144	5149144	located_end	5061144
	estimated_end	5149144		
CH321-13K22 2R	6102533	6190533	located_end	6102533
	estimated_end	6190533		
CH321-13K23 2R	15071332	15159332	located_end	15071332
	estimated_end	15159332		
CH321-13L06 2L	8767961	8855961	located_end	8767961
	estimated_end	8855961		
CH321-13L09 2R	14498824	14586824	estimated_end	14498824
	located_end	14586824		
CH321-13L14 3R	19340121	19428121	located_end	19340121
	estimated_end	19428121		
CH321-13L18 2R	2488645	2576645	located_end	2488645
	estimated_end	2576645		
CH321-13L20 3L	16088907	16176907	located_end	16088907
	estimated_end	16176907		
CH321-13L24 X	9589950	9677950	estimated_end	9589950
	located_end	9677950		
CH321-13M02 3RHet	1359774	1447774	estimated_end	1359774
	located_end	1447774		
CH321-13M05 3R	23984519	24072519	located_end	23984519
	estimated_end	24072519		
CH321-13M09 2R	10861288	10949288	located_end	10861288
	estimated_end	10949288		
CH321-13M14 3L	17624433	17712433	estimated_end	17624433
	located_end	17712433		
CH321-13M16 3R	13546491	13634491	estimated_end	13546491
	located_end	13634491		
CH321-13M21 2L	1784322	1872322	located_end	1784322
	estimated_end	1872322		
CH321-13M22 2R	12268164	12356164	located_end	12268164
	estimated_end	12356164		
CH321-13N02 3LHet	2473590	2561590	located_end	2473590
	estimated_end	2561590		
CH321-13N03 X	9784577	9872577	estimated_end	9784577
	located_end	9872577		
CH321-13N05 3LHet	184486	272486	located_end	184486
	estimated_end	272486		
CH321-13N18 3R	22372766	22460766	located_end	22372766
	estimated_end	22460766		

CH321-13N23 3L	23053430	23141430	estimated_end	23053430
	located_end	23141430		
CH321-13O01 2L	14641761	14729761	estimated_end	14641761
	located_end	14729761		
CH321-13O04 ArmU	1792271	1880271	estimated_end	1792271
	located_end	1880271		
CH321-13O05 3R	12534236	12622236	estimated_end	12534236
	located_end	12622236		
CH321-13O07 3RHet	1218973	1306973	located_end	1218973
	estimated_end	1306973		
CH321-13O08 ArmU	1245744	1333744	located_end	1245744
	estimated_end	1333744		
CH321-13O18 2L	15243962	15331962	estimated_end	15243962
	located_end	15331962		
CH321-13O20 2L	19792581	19880581	located_end	19792581
	estimated_end	19880581		
CH321-13O23 2R	1370224	1458224	located_end	1370224
	estimated_end	1458224		
CH321-13P02 ArmU	5700543	5788543	located_end	5700543
	estimated_end	5788543		
CH321-13P05 2R	15687408	15775408	estimated_end	15687408
	located_end	15775408		
CH321-13P19 3L	15414183	15502183	estimated_end	15414183
	located_end	15502183		
CH321-14A09 3R	21481402	21569402	located_end	21481402
	estimated_end	21569402		
CH321-14A10 2R	10872278	10960278	located_end	10872278
	estimated_end	10960278		
CH321-14A11 3L	12421665	12509665	estimated_end	12421665
	located_end	12509665		
CH321-14A12 X	17569766	17657766	estimated_end	17569766
	located_end	17657766		
CH321-14A15 2L	2289450	2377450	located_end	2289450
	estimated_end	2377450		
CH321-14A19 3L	2483897	2571897	estimated_end	2483897
	located_end	2571897		
CH321-14A20 2R	6778268	6866268	located_end	6778268
	estimated_end	6866268		
CH321-14A21 X	17320246	17408246	estimated_end	17320246
	located_end	17408246		
CH321-14B01 2L	2163218	2251218	estimated_end	2163218
	located_end	2251218		
CH321-14B03 X	15660422	15748422	located_end	15660422
	estimated_end	15748422		
CH321-14B17 3R	15840931	15928931	located_end	15840931
	estimated_end	15928931		
CH321-14B18 3R	15476453	15564453	located_end	15476453
	estimated_end	15564453		
CH321-14B19 3R	25901553	25989553	estimated_end	25901553
	located_end	25989553		
CH321-14C03 2R	5897619	5985619	located_end	5897619
	estimated_end	5985619		
CH321-14C09 X	5306257	5394257	estimated_end	5306257
	located_end	5394257		

CH321-14C15 3R	12334010	12422010	located_end	12334010
	estimated_end	12422010		
CH321-14C18 X	18510076	18598076	estimated_end	18510076
	located_end	18598076		
CH321-14C20 4	589375	677375	located_end	589375
	estimated_end	677375		
CH321-14C21 3L	1556889	1644889	estimated_end	1556889
	located_end	1644889		
CH321-14C22 3L	23309268	23397268	estimated_end	23309268
	located_end	23397268		
CH321-14C24 2L	21141266	21229266	estimated_end	21141266
	located_end	21229266		
CH321-14D10 3R	22722149	22810149	located_end	22722149
	estimated_end	22810149		
CH321-14D12 2R	5193659	5281659	located_end	5193659
	estimated_end	5281659		
CH321-14D20 3R	22954753	23042753	estimated_end	22954753
	located_end	23042753		
CH321-14D22 2L	13252843	13340843	estimated_end	13252843
	located_end	13340843		
CH321-14D24 3R	15857978	15945978	located_end	15857978
	estimated_end	15945978		
CH321-14E02 3R	18616329	18704329	located_end	18616329
	estimated_end	18704329		
CH321-14E05 2L	8118340	8206340	located_end	8118340
	estimated_end	8206340		
CH321-14E15 2L	9729064	9817064	located_end	9729064
	estimated_end	9817064		
CH321-14E17 3L	528356	616356	located_end	528356
	estimated_end	616356		
CH321-14E24 3R	2422424	2510424	estimated_end	2422424
	located_end	2510424		
CH321-14F09 3R	4154682	4242682	estimated_end	4154682
	located_end	4242682		
CH321-14F16 3L	12652659	12740659	estimated_end	12652659
	located_end	12740659		
CH321-14F17 2L	8685285	8773285	estimated_end	8685285
	located_end	8773285		
CH321-14F20 2L	19170081	19258081	located_end	19170081
	estimated_end	19258081		
CH321-14G03 3L	4597829	4685829	estimated_end	4597829
	located_end	4685829		
CH321-14G04 3R	23576604	23664604	estimated_end	23576604
	located_end	23664604		
CH321-14G11 3L	20687418	20775418	estimated_end	20687418
	located_end	20775418		
CH321-14G13 3R	7249016	7337016	located_end	7249016
	estimated_end	7337016		
CH321-14G19 3R	10763623	10851623	located_end	10763623
	estimated_end	10851623		
CH321-14H01 3R	4581636	4669636	estimated_end	4581636
	located_end	4669636		
CH321-14H02 3L	9848000	9936000	located_end	9848000
	estimated_end	9936000		

CH321-14H04 3R	1307466	1395466	estimated_end	1307466
	located_end	1395466		
CH321-14I07 3L	7842487	7930487	located_end	7842487
	estimated_end	7930487		
CH321-14I17 3R	7249647	7337647	estimated_end	7249647
	located_end	7337647		
CH321-14I19 2L	21057405	21145405	located_end	21057405
	estimated_end	21145405		
CH321-14J04 2R	15450804	15538804	located_end	15450804
	estimated_end	15538804		
CH321-14J05 X	21040172	21128172	estimated_end	21040172
	located_end	21128172		
CH321-14J09 2L	10836479	10924479	estimated_end	10836479
	located_end	10924479		
CH321-14J13 2R	9891330	9979330	estimated_end	9891330
	located_end	9979330		
CH321-14J19 3L	15440185	15528185	located_end	15440185
	estimated_end	15528185		
CH321-14J22 X	8980828	9068828	estimated_end	8980828
	located_end	9068828		
CH321-14K03 X	15860999	15948999	located_end	15860999
	estimated_end	15948999		
CH321-14K05 2L	16519666	16607666	estimated_end	16519666
	located_end	16607666		
CH321-14K08 3L	7078071	7166071	located_end	7078071
	estimated_end	7166071		
CH321-14K13 2R	5592099	5680099	located_end	5592099
	estimated_end	5680099		
CH321-14K15 2R	12641904	12729904	located_end	12641904
	estimated_end	12729904		
CH321-14K21 2L	13044084	13132084	estimated_end	13044084
	located_end	13132084		
CH321-14K23 2R	13223320	13311320	located_end	13223320
	estimated_end	13311320		
CH321-14L04 2L	10119604	10207604	estimated_end	10119604
	located_end	10207604		
CH321-14L06 3L	15769720	15857720	located_end	15769720
	estimated_end	15857720		
CH321-14L12 3L	4338179	4426179	located_end	4338179
	estimated_end	4426179		
CH321-14L14 3R	22547997	22635997	estimated_end	22547997
	located_end	22635997		
CH321-14L17 2L	22113367	22201367	estimated_end	22113367
	located_end	22201367		
CH321-14L18 X	3531692	3619692	located_end	3531692
	estimated_end	3619692		
CH321-14L20 3R	15014136	15102136	estimated_end	15014136
	located_end	15102136		
CH321-14L22 3L	6084949	6172949	estimated_end	6084949
	located_end	6172949		
CH321-14M04 X	6846681	6934681	located_end	6846681
	estimated_end	6934681		
CH321-14M07 2R	10839280	10927280	estimated_end	10839280
	located_end	10927280		

CH321-14M09 X	7296913	7384913	estimated_end	7296913
	located_end	7384913		
CH321-14M13 2R	5832522	5920522	located_end	5832522
	estimated_end	5920522		
CH321-14M16 3R	7962465	8050465	estimated_end	7962465
	located_end	8050465		
CH321-14M20 3L	21180578	21268578	estimated_end	21180578
	located_end	21268578		
CH321-14M24 3L	6595235	6683235	estimated_end	6595235
	located_end	6683235		
CH321-14N02 2R	13024489	13112489	estimated_end	13024489
	located_end	13112489		
CH321-14N04 2L	4401317	4489317	located_end	4401317
	estimated_end	4489317		
CH321-14N05 3R	17865485	17953485	estimated_end	17865485
	located_end	17953485		
CH321-14N06 3L	21079932	21167932	estimated_end	21079932
	located_end	21167932		
CH321-14N14 3R	946004	1034004	estimated_end	946004
	located_end	1034004		
CH321-14N15 3L	19249796	19337796	located_end	19249796
	estimated_end	19337796		
CH321-14N18 3R	5887043	5975043	located_end	5887043
	estimated_end	5975043		
CH321-14N20 2R	15661384	15749384	estimated_end	15661384
	located_end	15749384		
CH321-14N22 3L	8061543	8149543	located_end	8061543
	estimated_end	8149543		
CH321-14O06 2R	16941816	17029816	estimated_end	16941816
	located_end	17029816		
CH321-14O07 3L	21175462	21263462	located_end	21175462
	estimated_end	21263462		
CH321-14O13 2L	8417207	8505207	located_end	8417207
	estimated_end	8505207		
CH321-14O15 X	11096685	11184685	estimated_end	11096685
	located_end	11184685		
CH321-14O17 3R	21762354	21850354	located_end	21762354
	estimated_end	21850354		
CH321-14O20 3R	1567477	1655477	located_end	1567477
	estimated_end	1655477		
CH321-14P05 2R	17817622	17905622	estimated_end	17817622
	located_end	17905622		
CH321-14P06 3R	11558130	11646130	estimated_end	11558130
	located_end	11646130		
CH321-14P07 X	5204225	5292225	estimated_end	5204225
	located_end	5292225		
CH321-14P09 2L	3538469	3626469	estimated_end	3538469
	located_end	3626469		
CH321-14P11 2R	18399798	18487798	located_end	18399798
	estimated_end	18487798		
CH321-14P12 2L	16803529	16891529	located_end	16803529
	estimated_end	16891529		
CH321-14P13 3RHet	1816611	1904611	estimated_end	1816611
	located_end	1904611		

CH321-14P15 2L	16990982	17078982	located_end	16990982
	estimated_end	17078982		
CH321-14P16 3L	22490867	22578867	estimated_end	22490867
	located_end	22578867		
CH321-14P22 2L	20565996	20653996	estimated_end	20565996
	located_end	20653996		
CH321-14P24 2R	20949891	21037891	located_end	20949891
	estimated_end	21037891		
CH321-15A02 3L	14121149	14209149	located_end	14121149
	estimated_end	14209149		
CH321-15A03 3L	1696007	1784007	estimated_end	1696007
	located_end	1784007		
CH321-15A10 3R	25228737	25316737	located_end	25228737
	estimated_end	25316737		
CH321-15A11 2R	14321702	14409702	estimated_end	14321702
	located_end	14409702		
CH321-15A13 X	6771105	6859105	estimated_end	6771105
	located_end	6859105		
CH321-15A16 2L	151681	239681	located_end	151681
	estimated_end	239681		
CH321-15A18 2L	1085775	1173775	located_end	1085775
	estimated_end	1173775		
CH321-15A19 3R	12722231	12810231	estimated_end	12722231
	located_end	12810231		
CH321-15A20 2R	4478536	4566536	estimated_end	4478536
	located_end	4566536		
CH321-15A24 2R	896689	984689	estimated_end	896689
	located_end	984689		
CH321-15B01 2L	17487635	17575635	located_end	17487635
	estimated_end	17575635		
CH321-15B02 4	236634	324634	located_end	236634
	estimated_end	324634		
CH321-15B03 3L	7114959	7202959	estimated_end	7114959
	located_end	7202959		
CH321-15B04 3R	25044903	25132903	estimated_end	25044903
	located_end	25132903		
CH321-15B05 2L	16967356	17055356	located_end	16967356
	estimated_end	17055356		
CH321-15B06 3R	22770023	22858023	located_end	22770023
	estimated_end	22858023		
CH321-15B07 2L	4936867	5024867	located_end	4936867
	estimated_end	5024867		
CH321-15B09 3R	11677144	11765144	located_end	11677144
	estimated_end	11765144		
CH321-15B10 2L	8304411	8392411	located_end	8304411
	estimated_end	8392411		
CH321-15B11 2R	20840283	20928283	located_end	20840283
	estimated_end	20928283		
CH321-15B12 3R	7745424	7833424	located_end	7745424
	estimated_end	7833424		
CH321-15B13 3L	1622221	1710221	estimated_end	1622221
	located_end	1710221		
CH321-15B14 3LHet	2334655	2422655	estimated_end	2334655
	located_end	2422655		

CH321-15B15 3L	10363074	10451074	located_end	10363074
	estimated_end	10451074		
CH321-15B21 3R	20490669	20578669	located_end	20490669
	estimated_end	20578669		
CH321-15B22 2L	12268354	12356354	located_end	12268354
	estimated_end	12356354		
CH321-15B23 3L	13576891	13664891	estimated_end	13576891
	located_end	13664891		
CH321-15B24 X	19939272	20027272	estimated_end	19939272
	located_end	20027272		
CH321-15C02 3R	19652017	19740017	located_end	19652017
	estimated_end	19740017		
CH321-15C04 3R	5094553	5182553	estimated_end	5094553
	located_end	5182553		
CH321-15C05 2L	14066 102066		located_end	14066 estimated_end
	102066			
CH321-15C06 3R	2710821	2798821	estimated_end	2710821
	located_end	2798821		
CH321-15C07 3L	11351374	11439374	estimated_end	11351374
	located_end	11439374		
CH321-15C08 2R	13679644	13767644	located_end	13679644
	estimated_end	13767644		
CH321-15C10 2L	14332594	14420594	estimated_end	14332594
	located_end	14420594		
CH321-15C11 3L	7346012	7434012	estimated_end	7346012
	located_end	7434012		
CH321-15C12 3R	12045463	12133463	estimated_end	12045463
	located_end	12133463		
CH321-15C13 3R	10015776	10103776	estimated_end	10015776
	located_end	10103776		
CH321-15C14 2L	18862368	18950368	estimated_end	18862368
	located_end	18950368		
CH321-15C15 3R	3384340	3472340	estimated_end	3384340
	located_end	3472340		
CH321-15C16 2R	8674437	8762437	located_end	8674437
	estimated_end	8762437		
CH321-15C17 2RHet	2521187	2609187	estimated_end	2521187
	located_end	2609187		
CH321-15C18 2L	14347959	14435959	located_end	14347959
	estimated_end	14435959		
CH321-15C19 X	12582007	12670007	estimated_end	12582007
	located_end	12670007		
CH321-15C20 2RHet	41069 129069		estimated_end	41069 located_end
	129069			
CH321-15C21 3L	9368169	9456169	located_end	9368169
	estimated_end	9456169		
CH321-15C22 3R	14110381	14198381	located_end	14110381
	estimated_end	14198381		
CH321-15C23 3R	7169966	7257966	located_end	7169966
	estimated_end	7257966		
CH321-15C24 3R	27310804	27398804	estimated_end	27310804
	located_end	27398804		
CH321-15D01 2R	10516055	10604055	estimated_end	10516055
	located_end	10604055		

CH321-15D02 X	9154021	9242021	estimated_end	9154021
	located_end	9242021		
CH321-15D03 X	9154021	9242021	estimated_end	9154021
	located_end	9242021		
CH321-15D04 3L	176530	264530	estimated_end	176530
	located_end	264530		
CH321-15D05 3L	11457300	11545300	located_end	11457300
	estimated_end	11545300		
CH321-15D08 3L	20027687	20115687	located_end	20027687
	estimated_end	20115687		
CH321-15D10 3R	3878202	3966202	estimated_end	3878202
	located_end	3966202		
CH321-15D12 X	16886486	16974486	estimated_end	16886486
	located_end	16974486		
CH321-15D13 2L	22343978	22431978	located_end	22343978
	estimated_end	22431978		
CH321-15D14 3L	2691692	2779692	located_end	2691692
	estimated_end	2779692		
CH321-15D17 2L	19072174	19160174	located_end	19072174
	estimated_end	19160174		
CH321-15D21 3R	1757989	1845989	located_end	1757989
	estimated_end	1845989		
CH321-15D23 3R	4044124	4132124	located_end	4044124
	estimated_end	4132124		
CH321-15E01 3R	26345798	26433798	estimated_end	26345798
	located_end	26433798		
CH321-15E02 3R	15123483	15211483	estimated_end	15123483
	located_end	15211483		
CH321-15E04 X	19104955	19192955	estimated_end	19104955
	located_end	19192955		
CH321-15E06 3R	18040016	18128016	located_end	18040016
	estimated_end	18128016		
CH321-15E07 2R	11749408	11837408	located_end	11749408
	estimated_end	11837408		
CH321-15E08 2L	17815583	17903583	located_end	17815583
	estimated_end	17903583		
CH321-15E10 2R	15183874	15271874	estimated_end	15183874
	located_end	15271874		
CH321-15E11 3R	3265972	3353972	located_end	3265972
	estimated_end	3353972		
CH321-15E12 3L	1120587	1208587	estimated_end	1120587
	located_end	1208587		
CH321-15E13 3L	20023076	20111076	located_end	20023076
	estimated_end	20111076		
CH321-15E14 2L	8365127	8453127	located_end	8365127
	estimated_end	8453127		
CH321-15E15 2R	17264016	17352016	located_end	17264016
	estimated_end	17352016		
CH321-15E16 3R	16890701	16978701	located_end	16890701
	estimated_end	16978701		
CH321-15E17 3R	23569364	23657364	located_end	23569364
	estimated_end	23657364		
CH321-15E19 3L	1952624	2040624	estimated_end	1952624
	located_end	2040624		

CH321-15E20 X	5413747	5501747	estimated_end	5413747
	located_end	5501747		
CH321-15E22 3R	18026432	18114432	estimated_end	18026432
	located_end	18114432		
CH321-15F02 3R	6260764	6348764	estimated_end	6260764
	located_end	6348764		
CH321-15F04 3R	4898310	4986310	located_end	4898310
	estimated_end	4986310		
CH321-15F05 3L	2708342	2796342	located_end	2708342
	estimated_end	2796342		
CH321-15F08 3R	6173308	6261308	estimated_end	6173308
	located_end	6261308		
CH321-15F09 X	12360074	12448074	estimated_end	12360074
	located_end	12448074		
CH321-15F10 2R	10802263	10890263	located_end	10802263
	estimated_end	10890263		
CH321-15F11 2R	16242024	16330024	located_end	16242024
	estimated_end	16330024		
CH321-15F12 3R	21634576	21722576	estimated_end	21634576
	located_end	21722576		
CH321-15F13 3L	5229277	5317277	located_end	5229277
	estimated_end	5317277		
CH321-15F14 3L	5486211	5574211	located_end	5486211
	estimated_end	5574211		
CH321-15F16 2R	5304700	5392700	located_end	5304700
	estimated_end	5392700		
CH321-15F18 2L	19228988	19316988	estimated_end	19228988
	located_end	19316988		
CH321-15F19 2R	15687149	15775149	located_end	15687149
	estimated_end	15775149		
CH321-15F20 2L	21142301	21230301	located_end	21142301
	estimated_end	21230301		
CH321-15F21 3R	17476967	17564967	located_end	17476967
	estimated_end	17564967		
CH321-15F23 X	8658314	8746314	located_end	8658314
	estimated_end	8746314		
CH321-15G01 2RHet	1990424	2078424	located_end	1990424
	estimated_end	2078424		
CH321-15G03 2R	11918175	12006175	located_end	11918175
	estimated_end	12006175		
CH321-15G06 3L	1612176	1700176	located_end	1612176
	estimated_end	1700176		
CH321-15G07 2R	3734767	3822767	estimated_end	3734767
	located_end	3822767		
CH321-15G08 2RHet	1269296	1357296	located_end	1269296
	estimated_end	1357296		
CH321-15G09 3L	13577604	13665604	located_end	13577604
	estimated_end	13665604		
CH321-15G11 X	13573143	13661143	located_end	13573143
	estimated_end	13661143		
CH321-15G15 3L	14213520	14301520	located_end	14213520
	estimated_end	14301520		
CH321-15G18 3L	19280358	19368358	estimated_end	19280358
	located_end	19368358		

CH321-15G21 X	6830151	6918151	located_end	6830151
	estimated_end	6918151		
CH321-15G22 2RHet	2796876	2884876	estimated_end	2796876
	located_end	2884876		
CH321-15G23 X	8448842	8536842	estimated_end	8448842
	located_end	8536842		
CH321-15G24 2L	13846947	13934947	estimated_end	13846947
	located_end	13934947		
CH321-15H01 ArmU	881491	969491	estimated_end	881491
	located_end	969491		
CH321-15H02 X	4185875	4273875	estimated_end	4185875
	located_end	4273875		
CH321-15H03 2L	20288930	20376930	located_end	20288930
	estimated_end	20376930		
CH321-15H04 3R	13145618	13233618	estimated_end	13145618
	located_end	13233618		
CH321-15H05 2R	19353418	19441418	estimated_end	19353418
	located_end	19441418		
CH321-15H06 2R	8318141	8406141	located_end	8318141
	estimated_end	8406141		
CH321-15H10 2L	13916889	14004889	estimated_end	13916889
	located_end	14004889		
CH321-15H11 3R	7392924	7480924	estimated_end	7392924
	located_end	7480924		
CH321-15H18 X	7593421	7681421	estimated_end	7593421
	located_end	7681421		
CH321-15H19 X	17274302	17362302	located_end	17274302
	estimated_end	17362302		
CH321-15H20 X	7059293	7147293	estimated_end	7059293
	located_end	7147293		
CH321-15H21 3L	9962257	10050257	located_end	9962257
	estimated_end	10050257		
CH321-15H23 3L	9397852	9485852	located_end	9397852
	estimated_end	9485852		
CH321-15I01 3L	6448310	6536310	estimated_end	6448310
	located_end	6536310		
CH321-15I03 3R	9999440	10087440	located_end	9999440
	estimated_end	10087440		
CH321-15I04 3R	19941415	20029415	located_end	19941415
	estimated_end	20029415		
CH321-15I06 3R	26699782	26787782	located_end	26699782
	estimated_end	26787782		
CH321-15I07 X	19243882	19331882	located_end	19243882
	estimated_end	19331882		
CH321-15I10 2L	16359356	16447356	estimated_end	16359356
	located_end	16447356		
CH321-15I12 X	20441841	20529841	estimated_end	20441841
	located_end	20529841		
CH321-15I14 2R	14796571	14884571	estimated_end	14796571
	located_end	14884571		
CH321-15I16 3L	19146301	19234301	estimated_end	19146301
	located_end	19234301		
CH321-15I17 2L	17576155	17664155	estimated_end	17576155
	located_end	17664155		

CH321-15I18 X	16128899	16216899	estimated_end	16128899
	located_end	16216899		
CH321-15I19 2R	16296533	16384533	located_end	16296533
	estimated_end	16384533		
CH321-15I20 3R	24409270	24497270	located_end	24409270
	estimated_end	24497270		
CH321-15I21 X	16502498	16590498	located_end	16502498
	estimated_end	16590498		
CH321-15I22 2RHet	2906425	2994425	located_end	2906425
	estimated_end	2994425		
CH321-15I24 2R	7561127	7649127	estimated_end	7561127
	located_end	7649127		
CH321-15J02 3L	19575943	19663943	located_end	19575943
	estimated_end	19663943		
CH321-15J04 3L	9344917	9432917	located_end	9344917
	estimated_end	9432917		
CH321-15J05 X	10522657	10610657	estimated_end	10522657
	located_end	10610657		
CH321-15J06 2L	6012589	6100589	estimated_end	6012589
	located_end	6100589		
CH321-15J07 2R	15765070	15853070	located_end	15765070
	estimated_end	15853070		
CH321-15J08 2R	6166757	6254757	estimated_end	6166757
	located_end	6254757		
CH321-15J09 3R	26178538	26266538	located_end	26178538
	estimated_end	26266538		
CH321-15J10 2L	4279225	4367225	located_end	4279225
	estimated_end	4367225		
CH321-15J11 3R	22674035	22762035	located_end	22674035
	estimated_end	22762035		
CH321-15J12 2L	21737741	21825741	located_end	21737741
	estimated_end	21825741		
CH321-15J13 3R	9481719	9569719	located_end	9481719
	estimated_end	9569719		
CH321-15J14 3R	9431202	9519202	estimated_end	9431202
	located_end	9519202		
CH321-15J15 2R	11606764	11694764	estimated_end	11606764
	located_end	11694764		
CH321-15J16 X	18002732	18090732	estimated_end	18002732
	located_end	18090732		
CH321-15J17 2R	11151200	11239200	located_end	11151200
	estimated_end	11239200		
CH321-15J19 2L	18805996	18893996	estimated_end	18805996
	located_end	18893996		
CH321-15J20 2RHet	3267335	3355335	located_end	3267335
	estimated_end	3355335		
CH321-15J23 X	12392066	12480066	estimated_end	12392066
	located_end	12480066		
CH321-15J24 3R	1271368	1359368	estimated_end	1271368
	located_end	1359368		
CH321-15K02 3R	25551697	25639697	located_end	25551697
	estimated_end	25639697		
CH321-15K04 2R	8344499	8432499	located_end	8344499
	estimated_end	8432499		

CH321-15K05 3R	17964457	18052457	located_end	17964457
	estimated_end	18052457		
CH321-15K06 2L	15332497	15420497	located_end	15332497
	estimated_end	15420497		
CH321-15K07 2R	17275815	17363815	located_end	17275815
	estimated_end	17363815		
CH321-15K08 2L	3606071	3694071	located_end	3606071
	estimated_end	3694071		
CH321-15K10 3R	16634390	16722390	estimated_end	16634390
	located_end	16722390		
CH321-15K11 3L	5407315	5495315	located_end	5407315
	estimated_end	5495315		
CH321-15K12 X	20016288	20104288	located_end	20016288
	estimated_end	20104288		
CH321-15K13 3R	2058425	2146425	estimated_end	2058425
	located_end	2146425		
CH321-15K14 2L	14890567	14978567	located_end	14890567
	estimated_end	14978567		
CH321-15K18 X	21071094	21159094	estimated_end	21071094
	located_end	21159094		
CH321-15K19 2L	15825007	15913007	located_end	15825007
	estimated_end	15913007		
CH321-15K20 3R	20357232	20445232	located_end	20357232
	estimated_end	20445232		
CH321-15K21 2L	16705669	16793669	located_end	16705669
	estimated_end	16793669		
CH321-15K22 3R	19804869	19892869	located_end	19804869
	estimated_end	19892869		
CH321-15K24 2L	2956640	3044640	estimated_end	2956640
	located_end	3044640		
CH321-15L01 2R	10846461	10934461	located_end	10846461
	estimated_end	10934461		
CH321-15L03 3L	7362573	7450573	estimated_end	7362573
	located_end	7450573		
CH321-15L04 3R	15782435	15870435	located_end	15782435
	estimated_end	15870435		
CH321-15L06 3L	22933050	23021050	estimated_end	22933050
	located_end	23021050		
CH321-15L07 2R	7452060	7540060	estimated_end	7452060
	located_end	7540060		
CH321-15L08 X	9948543	10036543	located_end	9948543
	estimated_end	10036543		
CH321-15L09 3L	8215286	8303286	estimated_end	8215286
	located_end	8303286		
CH321-15L10 3L	16145670	16233670	located_end	16145670
	estimated_end	16233670		
CH321-15L12 3RHet	129036	217036	estimated_end	129036
	located_end	217036		
CH321-15L13 X	3864781	3952781	located_end	3864781
	estimated_end	3952781		
CH321-15L14 2L	11838428	11926428	estimated_end	11838428
	located_end	11926428		
CH321-15L15 3L	4768548	4856548	estimated_end	4768548
	located_end	4856548		

CH321-15L16 3L	1943131	2031131	located_end	1943131
	estimated_end	2031131		
CH321-15L18 3R	21628325	21716325	estimated_end	21628325
	located_end	21716325		
CH321-15L19 3R	19117765	19205765	estimated_end	19117765
	located_end	19205765		
CH321-15L20 3R	12604099	12692099	estimated_end	12604099
	located_end	12692099		
CH321-15L22 2R	925752	1013752	located_end	925752
	estimated_end	1013752		
CH321-15L23 2L	14330436	14418436	located_end	14330436
	estimated_end	14418436		
CH321-15M02 2R	16327291	16415291	located_end	16327291
	estimated_end	16415291		
CH321-15M03 2L	11591249	11679249	estimated_end	11591249
	located_end	11679249		
CH321-15M04 3L	6684835	6772835	located_end	6684835
	estimated_end	6772835		
CH321-15M06 2L	21579049	21667049	estimated_end	21579049
	located_end	21667049		
CH321-15M08 3L	4545662	4633662	located_end	4545662
	estimated_end	4633662		
CH321-15M09 3L	19984294	20072294	located_end	19984294
	estimated_end	20072294		
CH321-15M10 2R	2581655	2669655	estimated_end	2581655
	located_end	2669655		
CH321-15M11 3R	306241	394241	located_end	306241
	estimated_end	394241		
CH321-15M12 3R	20654503	20742503	located_end	20654503
	estimated_end	20742503		
CH321-15M13 4	938630	1026630	estimated_end	938630
	located_end	1026630		
CH321-15M15 X	9773131	9861131	located_end	9773131
	estimated_end	9861131		
CH321-15M16 3L	1108034	1196034	estimated_end	1108034
	located_end	1196034		
CH321-15M17 3L	5693409	5781409	located_end	5693409
	estimated_end	5781409		
CH321-15M18 2L	9549829	9637829	estimated_end	9549829
	located_end	9637829		
CH321-15M20 3L	17264892	17352892	estimated_end	17264892
	located_end	17352892		
CH321-15M21 2R	11663367	11751367	located_end	11663367
	estimated_end	11751367		
CH321-15M22 3R	21276781	21364781	estimated_end	21276781
	located_end	21364781		
CH321-15N01 2R	15999262	16087262	located_end	15999262
	estimated_end	16087262		
CH321-15N03 2L	12068770	12156770	estimated_end	12068770
	located_end	12156770		
CH321-15N04 2R	13676844	13764844	estimated_end	13676844
	located_end	13764844		
CH321-15N08 3R	24937399	25025399	located_end	24937399
	estimated_end	25025399		

CH321-15N10 2L	10120493	10208493	located_end	10120493
	estimated_end	10208493		
CH321-15N11 3L	9144229	9232229	located_end	9144229
	estimated_end	9232229		
CH321-15N12 3R	19705193	19793193	estimated_end	19705193
	located_end	19793193		
CH321-15N14 3R	18549916	18637916	estimated_end	18549916
	located_end	18637916		
CH321-15N16 3R	6541249	6629249	located_end	6541249
	estimated_end	6629249		
CH321-15N18 2L	15786086	15874086	estimated_end	15786086
	located_end	15874086		
CH321-15N19 3R	22195520	22283520	located_end	22195520
	estimated_end	22283520		
CH321-15N20 3R	1669982	1757982	estimated_end	1669982
	located_end	1757982		
CH321-15N21 2R	11374482	11462482	located_end	11374482
	estimated_end	11462482		
CH321-15N22 2L	19801626	19889626	located_end	19801626
	estimated_end	19889626		
CH321-15N23 3R	4093460	4181460	located_end	4093460
	estimated_end	4181460		
CH321-15O04 3L	19160995	19248995	estimated_end	19160995
	located_end	19248995		
CH321-15O06 3L	5143022	5231022	located_end	5143022
	estimated_end	5231022		
CH321-15O07 2L	18620180	18708180	located_end	18620180
	estimated_end	18708180		
CH321-15O08 3L	22949140	23037140	located_end	22949140
	estimated_end	23037140		
CH321-15O09 2L	10059658	10147658	estimated_end	10059658
	located_end	10147658		
CH321-15O10 3R	21636358	21724358	estimated_end	21636358
	located_end	21724358		
CH321-15O11 2R	3020855	3108855	located_end	3020855
	estimated_end	3108855		
CH321-15O12 3R	23991628	24079628	located_end	23991628
	estimated_end	24079628		
CH321-15O13 3L	7909323	7997323	estimated_end	7909323
	located_end	7997323		
CH321-15O14 X	9456600	9544600	located_end	9456600
	estimated_end	9544600		
CH321-15O15 2R	7641789	7729789	estimated_end	7641789
	located_end	7729789		
CH321-15O16 3L	6412192	6500192	estimated_end	6412192
	located_end	6500192		
CH321-15O17 3RHet	1464698	1552698	located_end	1464698
	estimated_end	1552698		
CH321-15O18 3R	3497637	3585637	estimated_end	3497637
	located_end	3585637		
CH321-15O22 3R	14586132	14674132	estimated_end	14586132
	located_end	14674132		
CH321-15P05 3L	7142370	7230370	estimated_end	7142370
	located_end	7230370		

CH321-15P06 X	12616732	12704732	located_end	12616732
	estimated_end	12704732		
CH321-15P09 ArmU	1252921	1340921	estimated_end	1252921
	located_end	1340921		
CH321-15P10 2L	14792984	14880984	estimated_end	14792984
	located_end	14880984		
CH321-15P11 2RHet	691336	779336	estimated_end	691336
	located_end	779336		
CH321-15P13 3R	25873042	25961042	located_end	25873042
	estimated_end	25961042		
CH321-15P14 2R	17582802	17670802	located_end	17582802
	estimated_end	17670802		
CH321-15P16 3R	24747442	24835442	located_end	24747442
	estimated_end	24835442		
CH321-15P17 X	19722764	19810764	located_end	19722764
	estimated_end	19810764		
CH321-15P18 2R	5495879	5583879	located_end	5495879
	estimated_end	5583879		
CH321-15P19 3R	19391778	19479778	located_end	19391778
	estimated_end	19479778		
CH321-16A01 X	2410419	2498419	located_end	2410419
	estimated_end	2498419		
CH321-16A08 3R	9518079	9606079	located_end	9518079
	estimated_end	9606079		
CH321-16A14 2R	1376858	1464858	estimated_end	1376858
	located_end	1464858		
CH321-16A15 3R	11573117	11661117	estimated_end	11573117
	located_end	11661117		
CH321-16A22 X	13855350	13943350	located_end	13855350
	estimated_end	13943350		
CH321-16A23 2L	19641121	19729121	estimated_end	19641121
	located_end	19729121		
CH321-16B02 3R	16207112	16295112	estimated_end	16207112
	located_end	16295112		
CH321-16B03 ArmU	9708223	9796223	estimated_end	9708223
	located_end	9796223		
CH321-16B04 X	11085483	11173483	estimated_end	11085483
	located_end	11173483		
CH321-16B08 ArmU	8140556	8228556	located_end	8140556
	estimated_end	8228556		
CH321-16B12 2L	20196378	20284378	estimated_end	20196378
	located_end	20284378		
CH321-16B15 3L	13722932	13810932	located_end	13722932
	estimated_end	13810932		
CH321-16B20 X	22024342	22112342	estimated_end	22024342
	located_end	22112342		
CH321-16B21 2L	19559264	19647264	located_end	19559264
	estimated_end	19647264		
CH321-16B22 2L	12640606	12728606	estimated_end	12640606
	located_end	12728606		
CH321-16B23 3R	18313177	18401177	estimated_end	18313177
	located_end	18401177		
CH321-16C04 2R	6465793	6553793	located_end	6465793
	estimated_end	6553793		

CH321-16C07 3L	19325550	19413550	estimated_end	19325550
	located_end	19413550		
CH321-16C08 2R	7120319	7208319	estimated_end	7120319
	located_end	7208319		
CH321-16C10 3L	4213072	4301072	located_end	4213072
	estimated_end	4301072		
CH321-16C19 2R	16364297	16452297	located_end	16364297
	estimated_end	16452297		
CH321-16D08 3R	4721408	4809408	estimated_end	4721408
	located_end	4809408		
CH321-16D09 3L	6316383	6404383	located_end	6316383
	estimated_end	6404383		
CH321-16D10 X	11142573	11230573	estimated_end	11142573
	located_end	11230573		
CH321-16D12 3L	18750947	18838947	estimated_end	18750947
	located_end	18838947		
CH321-16D15 3R	7629752	7717752	located_end	7629752
	estimated_end	7717752		
CH321-16D16 3R	10907040	10995040	located_end	10907040
	estimated_end	10995040		
CH321-16E05 3LHet	2317758	2405758	estimated_end	2317758
	located_end	2405758		
CH321-16E06 2L	5723277	5811277	located_end	5723277
	estimated_end	5811277		
CH321-16E09 3R	8790547	8878547	estimated_end	8790547
	located_end	8878547		
CH321-16E12 3L	12903289	12991289	located_end	12903289
	estimated_end	12991289		
CH321-16E13 ArmU	9707960	9795960	estimated_end	9707960
	located_end	9795960		
CH321-16E14 3L	12753802	12841802	located_end	12753802
	estimated_end	12841802		
CH321-16E15 2L	3509681	3597681	estimated_end	3509681
	located_end	3597681		
CH321-16E16 X	8334743	8422743	located_end	8334743
	estimated_end	8422743		
CH321-16E18 X	17737492	17825492	located_end	17737492
	estimated_end	17825492		
CH321-16F03 2R	3290509	3378509	located_end	3290509
	estimated_end	3378509		
CH321-16F07 2R	20499955	20587955	located_end	20499955
	estimated_end	20587955		
CH321-16F11 3R	2082157	2170157	estimated_end	2082157
	located_end	2170157		
CH321-16F12 X	6092249	6180249	located_end	6092249
	estimated_end	6180249		
CH321-16F13 X	16184176	16272176	estimated_end	16184176
	located_end	16272176		
CH321-16F17 2R	3405856	3493856	located_end	3405856
	estimated_end	3493856		
CH321-16F18 2L	11518824	11606824	estimated_end	11518824
	located_end	11606824		
CH321-16F19 2L	15906629	15994629	estimated_end	15906629
	located_end	15994629		

CH321-16F20 ArmU	9707959	9795959	estimated_end	9707959
located_end	9795959			
CH321-16G08 3R	4166584	4254584	estimated_end	4166584
located_end	4254584			
CH321-16G09 X	6632098	6720098	estimated_end	6632098
located_end	6720098			
CH321-16G11 3L	12855499	12943499	estimated_end	12855499
located_end	12943499			
CH321-16G15 2L	22975555	23063555	located_end	22975555
estimated_end	23063555			
CH321-16G22 3R	15508109	15596109	estimated_end	15508109
located_end	15596109			
CH321-16H09 3R	10765806	10853806	estimated_end	10765806
located_end	10853806			
CH321-16H14 3L	8157844	8245844	located_end	8157844
estimated_end	8245844			
CH321-16H20 3R	6222122	6310122	estimated_end	6222122
located_end	6310122			
CH321-16I04 3R	14115973	14203973	estimated_end	14115973
located_end	14203973			
CH321-16I09 2L	8009189	8097189	located_end	8009189
estimated_end	8097189			
CH321-16I10 ArmU	6373147	6461147	located_end	6373147
estimated_end	6461147			
CH321-16I12 3L	3741821	3829821	estimated_end	3741821
located_end	3829821			
CH321-16I13 3L	12768524	12856524	located_end	12768524
estimated_end	12856524			
CH321-16I18 2L	14305112	14393112	estimated_end	14305112
located_end	14393112			
CH321-16I20 2R	11825166	11913166	located_end	11825166
estimated_end	11913166			
CH321-16J02 2R	9404190	9492190	located_end	9404190
estimated_end	9492190			
CH321-16J04 2L	4671412	4759412	estimated_end	4671412
located_end	4759412			
CH321-16J07 3R	13402178	13490178	estimated_end	13402178
located_end	13490178			
CH321-16J09 2R	14196682	14284682	estimated_end	14196682
located_end	14284682			
CH321-16J11 2L	362274	450274	estimated_end	362274
located_end	450274			
CH321-16J12 2R	5373638	5461638	estimated_end	5373638
located_end	5461638			
CH321-16J15 2L	5882092	5970092	located_end	5882092
estimated_end	5970092			
CH321-16J17 2L	8552520	8640520	estimated_end	8552520
located_end	8640520			
CH321-16J20 ArmU	896653	984653	estimated_end	896653
located_end	984653			
CH321-16K06 X	19016466	19104466	located_end	19016466
estimated_end	19104466			
CH321-16K11 2R	4245576	4333576	estimated_end	4245576
located_end	4333576			

CH321-16K12 3R	10537918	10625918	estimated_end	10537918
	located_end	10625918		
CH321-16K13 3L	14407417	14495417	located_end	14407417
	estimated_end	14495417		
CH321-16K14 X	10389431	10477431	estimated_end	10389431
	located_end	10477431		
CH321-16K19 2L	8484325	8572325	estimated_end	8484325
	located_end	8572325		
CH321-16K21 3R	3209578	3297578	estimated_end	3209578
	located_end	3297578		
CH321-16L07 2R	4110149	4198149	located_end	4110149
	estimated_end	4198149		
CH321-16L10 3L	23928115	24016115	located_end	23928115
	estimated_end	24016115		
CH321-16L11 X	21167752	21255752	estimated_end	21167752
	located_end	21255752		
CH321-16L12 2L	8769159	8857159	estimated_end	8769159
	located_end	8857159		
CH321-16L14 3L	22228018	22316018	located_end	22228018
	estimated_end	22316018		
CH321-16L17 2R	19274222	19362222	located_end	19274222
	estimated_end	19362222		
CH321-16L21 2R	3570141	3658141	located_end	3570141
	estimated_end	3658141		
CH321-16L23 4	140230	228230	located_end	140230
	estimated_end	228230		
CH321-16L24 2L	15348296	15436296	estimated_end	15348296
	located_end	15436296		
CH321-16M04 3RHet	967024	1055024	estimated_end	967024
	located_end	1055024		
CH321-16M10 X	17129515	17217515	located_end	17129515
	estimated_end	17217515		
CH321-16M12 3L	13084668	13172668	estimated_end	13084668
	located_end	13172668		
CH321-16M13 3L	3367459	3455459	estimated_end	3367459
	located_end	3455459		
CH321-16M20 2R	19326743	19414743	located_end	19326743
	estimated_end	19414743		
CH321-16M23 3R	5090876	5178876	located_end	5090876
	estimated_end	5178876		
CH321-16N04 X	6975253	7063253	located_end	6975253
	estimated_end	7063253		
CH321-16N05 3R	21461509	21549509	located_end	21461509
	estimated_end	21549509		
CH321-16N07 2R	6641055	6729055	located_end	6641055
	estimated_end	6729055		
CH321-16N18 3L	5469108	5557108	located_end	5469108
	estimated_end	5557108		
CH321-16N19 ArmU	7182813	7270813	located_end	7182813
	estimated_end	7270813		
CH321-16N21 X	24853	112853	located_end	24853
	112853		estimated_end	
CH321-16O03 X	4986622	5074622	located_end	4986622
	estimated_end	5074622		

CH321-16O13 2R	2819902	2907902	located_end	2819902
	estimated_end	2907902		
CH321-16O20 2R	15348737	15436737	estimated_end	15348737
	located_end	15436737		
CH321-16O22 X	18915968	19003968	located_end	18915968
	estimated_end	19003968		
CH321-16O23 3L	21852013	21940013	estimated_end	21852013
	located_end	21940013		
CH321-16P05 3L	22672077	22760077	located_end	22672077
	estimated_end	22760077		
CH321-16P07 2R	10392546	10480546	estimated_end	10392546
	located_end	10480546		
CH321-16P16 X	9862835	9950835	located_end	9862835
	estimated_end	9950835		
CH321-16P18 3R	2774807	2862807	estimated_end	2774807
	located_end	2862807		
CH321-16P21 2R	14317942	14405942	located_end	14317942
	estimated_end	14405942		
CH321-17A05 X	11975318	12063318	located_end	11975318
	estimated_end	12063318		
CH321-17A17 X	14163961	14251961	located_end	14163961
	estimated_end	14251961		
CH321-17A18 ArmU	4704036	4792036	located_end	4704036
	estimated_end	4792036		
CH321-17A24 3R	838328	926328	estimated_end	838328
	located_end	926328		
CH321-17B17 3L	18246309	18334309	located_end	18246309
	estimated_end	18334309		
CH321-17B20 3R	1040939	1128939	located_end	1040939
	estimated_end	1128939		
CH321-17B21 2RHet	758011	846011	located_end	758011
	estimated_end	846011		
CH321-17C04 3LHet	271865	359865	located_end	271865
	estimated_end	359865		
CH321-17C06 2L	6535136	6623136	estimated_end	6535136
	located_end	6623136		
CH321-17C07 2R	17741772	17829772	estimated_end	17741772
	located_end	17829772		
CH321-17C08 3L	16102979	16190979	estimated_end	16102979
	located_end	16190979		
CH321-17C09 3R	20484505	20572505	located_end	20484505
	estimated_end	20572505		
CH321-17C12 ArmU	2119685	2207685	located_end	2119685
	estimated_end	2207685		
CH321-17C14 2L	14015974	14103974	estimated_end	14015974
	located_end	14103974		
CH321-17C15 X	7831484	7919484	located_end	7831484
	estimated_end	7919484		
CH321-17C16 2R	4618354	4706354	located_end	4618354
	estimated_end	4706354		
CH321-17C18 3L	17721666	17809666	estimated_end	17721666
	located_end	17809666		
CH321-17D06 3L	9938208	10026208	located_end	9938208
	estimated_end	10026208		

CH321-17D08 3L	13982851	14070851	estimated_end	13982851
	located_end	14070851		
CH321-17D09 X	6886873	6974873	estimated_end	6886873
	located_end	6974873		
CH321-17D11 3L	14186679	14274679	estimated_end	14186679
	located_end	14274679		
CH321-17D12 2L	10221696	10309696	located_end	10221696
	estimated_end	10309696		
CH321-17D14 2L	17626031	17714031	located_end	17626031
	estimated_end	17714031		
CH321-17D17 3R	20647401	20735401	located_end	20647401
	estimated_end	20735401		
CH321-17D20 X	10832034	10920034	located_end	10832034
	estimated_end	10920034		
CH321-17D22 ArmU	1241139	1329139	located_end	1241139
	estimated_end	1329139		
CH321-17D23 X	19639762	19727762	located_end	19639762
	estimated_end	19727762		
CH321-17E07 X	12681980	12769980	estimated_end	12681980
	located_end	12769980		
CH321-17E08 3L	5982277	6070277	located_end	5982277
	estimated_end	6070277		
CH321-17E09 3L	23598661	23686661	estimated_end	23598661
	located_end	23686661		
CH321-17E11 3LHet	273446	361446	located_end	273446
	estimated_end	361446		
CH321-17E12 2R	13008540	13096540	located_end	13008540
	estimated_end	13096540		
CH321-17E13 2L	2331330	2419330	estimated_end	2331330
	located_end	2419330		
CH321-17E15 2R	4155060	4243060	located_end	4155060
	estimated_end	4243060		
CH321-17E16 3L	14827059	14915059	estimated_end	14827059
	located_end	14915059		
CH321-17E17 2L	11418107	11506107	estimated_end	11418107
	located_end	11506107		
CH321-17E20 3R	14267997	14355997	located_end	14267997
	estimated_end	14355997		
CH321-17E22 XHet	71429	159429	located_end	71429
	159429		estimated_end	
CH321-17E23 2L	7352468	7440468	estimated_end	7352468
	located_end	7440468		
CH321-17E24 3L	5254233	5342233	estimated_end	5254233
	located_end	5342233		
CH321-17F04 3R	13360467	13448467	located_end	13360467
	estimated_end	13448467		
CH321-17F05 2R	15342331	15430331	located_end	15342331
	estimated_end	15430331		
CH321-17F06 3R	22833143	22921143	estimated_end	22833143
	located_end	22921143		
CH321-17F09 2RHet	445813	533813	estimated_end	445813
	located_end	533813		
CH321-17F12 2R	17153735	17241735	located_end	17153735
	estimated_end	17241735		

CH321-17F15 3R	22059267	22147267	estimated_end	22059267
	located_end	22147267		
CH321-17F16 3L	3503733	3591733	estimated_end	3503733
	located_end	3591733		
CH321-17F18 3L	23160082	23248082	estimated_end	23160082
	located_end	23248082		
CH321-17F19 X	4768798	4856798	estimated_end	4768798
	located_end	4856798		
CH321-17F23 3R	20205774	20293774	estimated_end	20205774
	located_end	20293774		
CH321-17G04 X	20399252	20487252	estimated_end	20399252
	located_end	20487252		
CH321-17G05 3R	8692492	8780492	estimated_end	8692492
	located_end	8780492		
CH321-17G06 3R	16111309	16199309	estimated_end	16111309
	located_end	16199309		
CH321-17G09 3L	18383718	18471718	located_end	18383718
	estimated_end	18471718		
CH321-17G11 3R	4764529	4852529	estimated_end	4764529
	located_end	4852529		
CH321-17G12 2R	8284789	8372789	located_end	8284789
	estimated_end	8372789		
CH321-17G16 3R	2654179	2742179	located_end	2654179
	estimated_end	2742179		
CH321-17G18 3R	18026707	18114707	located_end	18026707
	estimated_end	18114707		
CH321-17G21 2L	19966590	20054590	located_end	19966590
	estimated_end	20054590		
CH321-17G22 3R	25363531	25451531	located_end	25363531
	estimated_end	25451531		
CH321-17G23 2LHet	213663	301663	located_end	213663
	estimated_end	301663		
CH321-17H03 2L	19479433	19567433	estimated_end	19479433
	located_end	19567433		
CH321-17H05 3R	23865545	23953545	located_end	23865545
	estimated_end	23953545		
CH321-17H07 3R	25890522	25978522	estimated_end	25890522
	located_end	25978522		
CH321-17H08 2L	2487511	2575511	estimated_end	2487511
	located_end	2575511		
CH321-17H09 3L	7170453	7258453	located_end	7170453
	estimated_end	7258453		
CH321-17H11 X	11175939	11263939	estimated_end	11175939
	located_end	11263939		
CH321-17H12 2L	14811718	14899718	located_end	14811718
	estimated_end	14899718		
CH321-17H15 3R	2229732	2317732	estimated_end	2229732
	located_end	2317732		
CH321-17H18 2L	4191567	4279567	located_end	4191567
	estimated_end	4279567		
CH321-17H20 3R	19475026	19563026	located_end	19475026
	estimated_end	19563026		
CH321-17H22 3R	27296617	27384617	located_end	27296617
	estimated_end	27384617		

CH321-17H23 3R	19184203	19272203	estimated_end	19184203
	located_end	19272203		
CH321-17H24 3R	66576	154576	estimated_end	66576
	located_end	154576		
CH321-17I03 3L	18526804	18614804	estimated_end	18526804
	located_end	18614804		
CH321-17I05 X	19856824	19944824	located_end	19856824
	estimated_end	19944824		
CH321-17I06 X	4014567	4102567	located_end	4014567
	estimated_end	4102567		
CH321-17I07 2L	16590363	16678363	estimated_end	16590363
	located_end	16678363		
CH321-17I10 2R	8530823	8618823	estimated_end	8530823
	located_end	8618823		
CH321-17I12 2L	10305231	10393231	estimated_end	10305231
	located_end	10393231		
CH321-17I16 3R	25637465	25725465	located_end	25637465
	estimated_end	25725465		
CH321-17I17 X	4399621	4487621	located_end	4399621
	estimated_end	4487621		
CH321-17I20 3R	19026728	19114728	estimated_end	19026728
	located_end	19114728		
CH321-17I21 X	3284961	3372961	estimated_end	3284961
	located_end	3372961		
CH321-17I22 3R	13473769	13561769	located_end	13473769
	estimated_end	13561769		
CH321-17J03 2L	2850274	2938274	located_end	2850274
	estimated_end	2938274		
CH321-17J06 X	19893003	19981003	located_end	19893003
	estimated_end	19981003		
CH321-17J07 X	7582810	7670810	located_end	7582810
	estimated_end	7670810		
CH321-17J14 3L	3867287	3955287	located_end	3867287
	estimated_end	3955287		
CH321-17K03 3R	7155928	7243928	located_end	7155928
	estimated_end	7243928		
CH321-17K05 3L	14470895	14558895	located_end	14470895
	estimated_end	14558895		
CH321-17K06 3L	20533639	20621639	located_end	20533639
	estimated_end	20621639		
CH321-17K07 2L	22976933	23064933	located_end	22976933
	estimated_end	23064933		
CH321-17K14 3R	20139120	20227120	located_end	20139120
	estimated_end	20227120		
CH321-17K16 2R	4869795	4957795	estimated_end	4869795
	located_end	4957795		
CH321-17K19 ArmU	509500	597500	located_end	509500
	estimated_end	597500		
CH321-17K23 2R	11306849	11394849	estimated_end	11306849
	located_end	11394849		
CH321-17K24 2L	20846319	20934319	located_end	20846319
	estimated_end	20934319		
CH321-17L02 3L	12450255	12538255	located_end	12450255
	estimated_end	12538255		

CH321-17L04 3L	2145036	2233036	estimated_end	2145036
	located_end	2233036		
CH321-17L05 3L	1155764	1243764	estimated_end	1155764
	located_end	1243764		
CH321-17L06 3R	13212144	13300144	estimated_end	13212144
	located_end	13300144		
CH321-17L07 X	6387000	6475000	located_end	6387000
	estimated_end	6475000		
CH321-17L09 3R	10785048	10873048	located_end	10785048
	estimated_end	10873048		
CH321-17L10 3R	21458609	21546609	located_end	21458609
	estimated_end	21546609		
CH321-17L16 X	19134459	19222459	located_end	19134459
	estimated_end	19222459		
CH321-17L17 2R	14722078	14810078	located_end	14722078
	estimated_end	14810078		
CH321-17L19 3L	8841107	8929107	estimated_end	8841107
	located_end	8929107		
CH321-17L20 2R	2983757	3071757	located_end	2983757
	estimated_end	3071757		
CH321-17L22 X	17274108	17362108	located_end	17274108
	estimated_end	17362108		
CH321-17L23 3R	20443021	20531021	located_end	20443021
	estimated_end	20531021		
CH321-17M02 3R	18400306	18488306	estimated_end	18400306
	located_end	18488306		
CH321-17M05 2R	4884655	4972655	estimated_end	4884655
	located_end	4972655		
CH321-17M06 3L	12777153	12865153	located_end	12777153
	estimated_end	12865153		
CH321-17M08 3R	12983379	13071379	located_end	12983379
	estimated_end	13071379		
CH321-17M09 3R	13032721	13120721	located_end	13032721
	estimated_end	13120721		
CH321-17M10 2L	10482792	10570792	located_end	10482792
	estimated_end	10570792		
CH321-17M16 X	11059229	11147229	located_end	11059229
	estimated_end	11147229		
CH321-17M19 2R	7247940	7335940	estimated_end	7247940
	located_end	7335940		
CH321-17M21 2R	12228826	12316826	located_end	12228826
	estimated_end	12316826		
CH321-17M24 2R	14040761	14128761	located_end	14040761
	estimated_end	14128761		
CH321-17N02 3R	23774580	23862580	located_end	23774580
	estimated_end	23862580		
CH321-17N05 3R	24258661	24346661	estimated_end	24258661
	located_end	24346661		
CH321-17N06 2L	14819860	14907860	located_end	14819860
	estimated_end	14907860		
CH321-17N08 3R	21639577	21727577	located_end	21639577
	estimated_end	21727577		
CH321-17N10 2L	20375631	20463631	estimated_end	20375631
	located_end	20463631		

CH321-17N11 2L	17287016	17375016	estimated_end	17287016
	located_end	17375016		
CH321-17N14 2R	7606054	7694054	estimated_end	7606054
	located_end	7694054		
CH321-17N15 2R	11444507	11532507	located_end	11444507
	estimated_end	11532507		
CH321-17N16 3L	9873553	9961553	estimated_end	9873553
	located_end	9961553		
CH321-17N18 ArmU	1191573	1279573	estimated_end	1191573
	located_end	1279573		
CH321-17N19 2R	1164955	1252955	estimated_end	1164955
	located_end	1252955		
CH321-17N21 2R	12059715	12147715	located_end	12059715
	estimated_end	12147715		
CH321-17O04 X	19261628	19349628	located_end	19261628
	estimated_end	19349628		
CH321-17O07 3R	23368749	23456749	located_end	23368749
	estimated_end	23456749		
CH321-17O08 2L	19211556	19299556	estimated_end	19211556
	located_end	19299556		
CH321-17O09 YHet	67523 155523		estimated_end	67523 located_end
	155523			
CH321-17O10 3L	733966	821966	located_end	733966
	estimated_end	821966		
CH321-17O11 3L	21592469	21680469	located_end	21592469
	estimated_end	21680469		
CH321-17O14 2R	9867814	9955814	located_end	9867814
	estimated_end	9955814		
CH321-17O18 3L	6059475	6147475	located_end	6059475
	estimated_end	6147475		
CH321-17O19 3L	15108550	15196550	estimated_end	15108550
	located_end	15196550		
CH321-17O20 X	19271179	19359179	estimated_end	19271179
	located_end	19359179		
CH321-17O23 2R	5194101	5282101	estimated_end	5194101
	located_end	5282101		
CH321-17P05 3R	25482873	25570873	located_end	25482873
	estimated_end	25570873		
CH321-17P06 3L	21320916	21408916	located_end	21320916
	estimated_end	21408916		
CH321-17P07 3L	11373829	11461829	located_end	11373829
	estimated_end	11461829		
CH321-17P08 2L	13622789	13710789	estimated_end	13622789
	located_end	13710789		
CH321-17P09 3L	20067976	20155976	estimated_end	20067976
	located_end	20155976		
CH321-17P11 2L	14305157	14393157	estimated_end	14305157
	located_end	14393157		
CH321-17P14 3R	23502966	23590966	located_end	23502966
	estimated_end	23590966		
CH321-17P18 3L	6536588	6624588	estimated_end	6536588
	located_end	6624588		
CH321-17P20 2L	6535136	6623136	estimated_end	6535136
	located_end	6623136		

CH321-17P21 X	3381104	3469104	located_end 3381104
estimated_end	3469104		
CH321-17P22 X	6930928	7018928	located_end 6930928
estimated_end	7018928		
CH321-18A04 X	15920704	16008704	estimated_end 15920704
located_end	16008704		
CH321-18A07 2R	10259857	10347857	located_end 10259857
estimated_end	10347857		
CH321-18A15 ArmU	1597347	1685347	located_end 1597347
estimated_end	1685347		
CH321-18A16 X	21341055	21429055	located_end 21341055
estimated_end	21429055		
CH321-18A22 3R	16099418	16187418	estimated_end 16099418
located_end	16187418		
CH321-18A23 X	16590178	16678178	estimated_end 16590178
located_end	16678178		
CH321-18C01 2R	12538062	12626062	located_end 12538062
estimated_end	12626062		
CH321-18C06 2L	15615054	15703054	located_end 15615054
estimated_end	15703054		
CH321-18C07 3R	6675134	6763134	estimated_end 6675134
located_end	6763134		
CH321-18C08 3R	319904	407904	located_end 319904
estimated_end	407904		
CH321-18C12 2R	12788336	12876336	estimated_end 12788336
located_end	12876336		
CH321-18C20 3R	8033169	8121169	estimated_end 8033169
located_end	8121169		
CH321-18D07 3R	15560658	15648658	estimated_end 15560658
located_end	15648658		
CH321-18D13 3R	7118286	7206286	located_end 7118286
estimated_end	7206286		
CH321-18D14 3R	2295169	2383169	located_end 2295169
estimated_end	2383169		
CH321-18D17 2R	10894530	10982530	located_end 10894530
estimated_end	10982530		
CH321-18D21 2R	17098848	17186848	located_end 17098848
estimated_end	17186848		
CH321-18D22 3L	10877154	10965154	estimated_end 10877154
located_end	10965154		
CH321-18D24 3R	2050434	2138434	located_end 2050434
estimated_end	2138434		
CH321-18E07 3R	11248367	11336367	estimated_end 11248367
located_end	11336367		
CH321-18E08 X	5384402	5472402	located_end 5384402
estimated_end	5472402		
CH321-18E09 3L	4300179	4388179	located_end 4300179
estimated_end	4388179		
CH321-18E13 2R	11719798	11807798	estimated_end 11719798
located_end	11807798		
CH321-18E15 3R	24329620	24417620	estimated_end 24329620
located_end	24417620		
CH321-18E18 X	20674980	20762980	located_end 20674980
estimated_end	20762980		

CH321-18F07 3R	7553351	7641351	located_end	7553351
	estimated_end	7641351		
CH321-18F08 3R	25149883	25237883	estimated_end	25149883
	located_end	25237883		
CH321-18F10 3R	11681877	11769877	located_end	11681877
	estimated_end	11769877		
CH321-18F17 2R	9624775	9712775	located_end	9624775
	estimated_end	9712775		
CH321-18F18 3L	11519883	11607883	located_end	11519883
	estimated_end	11607883		
CH321-18F19 2L	19202943	19290943	located_end	19202943
	estimated_end	19290943		
CH321-18F21 3L	16364678	16452678	estimated_end	16364678
	located_end	16452678		
CH321-18F24 2R	11961062	12049062	estimated_end	11961062
	located_end	12049062		
CH321-18G02 3R	3841954	3929954	located_end	3841954
	estimated_end	3929954		
CH321-18G06 X	3951875	4039875	estimated_end	3951875
	located_end	4039875		
CH321-18G07 3R	13114106	13202106	estimated_end	13114106
	located_end	13202106		
CH321-18G13 3L	21345648	21433648	located_end	21345648
	estimated_end	21433648		
CH321-18G16 3R	14918354	15006354	estimated_end	14918354
	located_end	15006354		
CH321-18G22 X	10518522	10606522	located_end	10518522
	estimated_end	10606522		
CH321-18G24 X	7411559	7499559	estimated_end	7411559
	located_end	7499559		
CH321-18H03 2L	2061876	2149876	estimated_end	2061876
	located_end	2149876		
CH321-18H06 2L	20367128	20455128	located_end	20367128
	estimated_end	20455128		
CH321-18H08 2L	10993693	11081693	estimated_end	10993693
	located_end	11081693		
CH321-18H09 2L	8986976	9074976	located_end	8986976
	estimated_end	9074976		
CH321-18H13 2R	7913455	8001455	estimated_end	7913455
	located_end	8001455		
CH321-18H14 3R	12713056	12801056	estimated_end	12713056
	located_end	12801056		
CH321-18H15 3R	22367802	22455802	estimated_end	22367802
	located_end	22455802		
CH321-18H16 3L	10487696	10575696	located_end	10487696
	estimated_end	10575696		
CH321-18H18 3L	9553813	9641813	estimated_end	9553813
	located_end	9641813		
CH321-18H20 2L	13842407	13930407	located_end	13842407
	estimated_end	13930407		
CH321-18I02 2L	8527521	8615521	located_end	8527521
	estimated_end	8615521		
CH321-18I06 3L	16793343	16881343	located_end	16793343
	estimated_end	16881343		

CH321-18I11 3R	24141765	24229765	located_end	24141765
	estimated_end	24229765		
CH321-18I12 3R	7931810	8019810	estimated_end	7931810
	located_end	8019810		
CH321-18I15 2R	1222413	1310413	estimated_end	1222413
	located_end	1310413		
CH321-18I17 X	10893261	10981261	estimated_end	10893261
	located_end	10981261		
CH321-18I19 2R	1292196	1380196	estimated_end	1292196
	located_end	1380196		
CH321-18I24 3R	18106616	18194616	estimated_end	18106616
	located_end	18194616		
CH321-18J03 3L	13241501	13329501	estimated_end	13241501
	located_end	13329501		
CH321-18J08 3L	18608040	18696040	located_end	18608040
	estimated_end	18696040		
CH321-18J10 2R	8929099	9017099	estimated_end	8929099
	located_end	9017099		
CH321-18J11 X	7827858	7915858	estimated_end	7827858
	located_end	7915858		
CH321-18J12 2R	5921294	6009294	located_end	5921294
	estimated_end	6009294		
CH321-18J13 3L	1506152	1594152	estimated_end	1506152
	located_end	1594152		
CH321-18J15 3R	22723583	22811583	estimated_end	22723583
	located_end	22811583		
CH321-18J16 X	15722416	15810416	located_end	15722416
	estimated_end	15810416		
CH321-18J20 3L	11000335	11088335	located_end	11000335
	estimated_end	11088335		
CH321-18J22 2R	12891333	12979333	located_end	12891333
	estimated_end	12979333		
CH321-18J23 3R	12096181	12184181	located_end	12096181
	estimated_end	12184181		
CH321-18J24 X	5142151	5230151	located_end	5142151
	estimated_end	5230151		
CH321-18K05 2L	14202370	14290370	located_end	14202370
	estimated_end	14290370		
CH321-18K09 X	7632094	7720094	located_end	7632094
	estimated_end	7720094		
CH321-18K10 3L	7855312	7943312	estimated_end	7855312
	located_end	7943312		
CH321-18K11 3R	6817276	6905276	located_end	6817276
	estimated_end	6905276		
CH321-18K12 2L	12169400	12257400	estimated_end	12169400
	located_end	12257400		
CH321-18K17 2L	10891605	10979605	estimated_end	10891605
	located_end	10979605		
CH321-18K18 3L	6965761	7053761	located_end	6965761
	estimated_end	7053761		
CH321-18K20 X	3512445	3600445	estimated_end	3512445
	located_end	3600445		
CH321-18K21 X	11243135	11331135	estimated_end	11243135
	located_end	11331135		

CH321-18K22 X	15989717	16077717	estimated_end	15989717
	located_end	16077717		
CH321-18K23 2R	1095782	1183782	located_end	1095782
	estimated_end	1183782		
CH321-18L01 2R	11945737	12033737	estimated_end	11945737
	located_end	12033737		
CH321-18L02 X	16671648	16759648	located_end	16671648
	estimated_end	16759648		
CH321-18L04 3R	6055184	6143184	located_end	6055184
	estimated_end	6143184		
CH321-18L09 3R	18774614	18862614	estimated_end	18774614
	located_end	18862614		
CH321-18L10 2L	10751708	10839708	estimated_end	10751708
	located_end	10839708		
CH321-18L14 3R	8538905	8626905	located_end	8538905
	estimated_end	8626905		
CH321-18L16 2L	3957434	4045434	located_end	3957434
	estimated_end	4045434		
CH321-18L18 3R	22210535	22298535	estimated_end	22210535
	located_end	22298535		
CH321-18L20 3R	8065166	8153166	located_end	8065166
	estimated_end	8153166		
CH321-18M06 2R	787827	875827	located_end	787827
	estimated_end	875827		
CH321-18M07 2RHet	456043	544043	located_end	456043
	estimated_end	544043		
CH321-18M11 3L	15259269	15347269	located_end	15259269
	estimated_end	15347269		
CH321-18M12 3L	10450044	10538044	located_end	10450044
	estimated_end	10538044		
CH321-18M14 2L	16030337	16118337	located_end	16030337
	estimated_end	16118337		
CH321-18M16 2R	5426493	5514493	located_end	5426493
	estimated_end	5514493		
CH321-18M17 2L	14357931	14445931	estimated_end	14357931
	located_end	14445931		
CH321-18M18 3L	4457964	4545964	located_end	4457964
	estimated_end	4545964		
CH321-18M21 3R	20939680	21027680	estimated_end	20939680
	located_end	21027680		
CH321-18N03 3L	11444634	11532634	located_end	11444634
	estimated_end	11532634		
CH321-18N06 2L	9451002	9539002	estimated_end	9451002
	located_end	9539002		
CH321-18N10 2L	11935207	12023207	located_end	11935207
	estimated_end	12023207		
CH321-18N11 3L	22798546	22886546	estimated_end	22798546
	located_end	22886546		
CH321-18N12 2R	14052579	14140579	located_end	14052579
	estimated_end	14140579		
CH321-18N14 2R	16236855	16324855	estimated_end	16236855
	located_end	16324855		
CH321-18N16 2L	7722607	7810607	estimated_end	7722607
	located_end	7810607		

CH321-18N17 3R	20960194	21048194	located_end 20960194
	estimated_end	21048194	
CH321-18N18 3L	15371085	15459085	located_end 15371085
	estimated_end	15459085	
CH321-18N19 3R	26395464	26483464	located_end 26395464
	estimated_end	26483464	
CH321-18N20 X	17425474	17513474	located_end 17425474
	estimated_end	17513474	
CH321-18N22 3L	5916185	6004185	located_end 5916185
	estimated_end	6004185	
CH321-18O08 3R	17301863	17389863	located_end 17301863
	estimated_end	17389863	
CH321-18O10 3L	18918251	19006251	located_end 18918251
	estimated_end	19006251	
CH321-18O17 3L	12948359	13036359	estimated_end 12948359
	located_end	13036359	
CH321-18O18 X	5600229	5688229	located_end 5600229
	estimated_end	5688229	
CH321-18O20 2R	9309190	9397190	located_end 9309190
	estimated_end	9397190	
CH321-18O23 2R	14924641	15012641	estimated_end 14924641
	located_end	15012641	
CH321-18P05 2R	16430780	16518780	located_end 16430780
	estimated_end	16518780	
CH321-18P07 3R	14586777	14674777	estimated_end 14586777
	located_end	14674777	
CH321-18P08 2R	13603028	13691028	estimated_end 13603028
	located_end	13691028	
CH321-18P11 X	16767432	16855432	located_end 16767432
	estimated_end	16855432	
CH321-18P12 2R	3854983	3942983	estimated_end 3854983
	located_end	3942983	
CH321-18P17 X	86497	174497	located_end 86497 estimated_end 174497
CH321-18P18 3L	9141554	9229554	located_end 9141554
	estimated_end	9229554	
CH321-18P21 3L	9133775	9221775	located_end 9133775
	estimated_end	9221775	
CH321-18P22 3R	17420829	17508829	located_end 17420829
	estimated_end	17508829	
CH321-18P23 3R	6315797	6403797	located_end 6315797
	estimated_end	6403797	
CH321-19A02 3R	1735669	1823669	located_end 1735669
	estimated_end	1823669	
CH321-19A04 3R	23991628	24079628	located_end 23991628
	estimated_end	24079628	
CH321-19A05 2R	12836756	12924756	estimated_end 12836756
	located_end	12924756	
CH321-19A09 3R	19970903	20058903	located_end 19970903
	estimated_end	20058903	
CH321-19A10 3R	10178683	10266683	located_end 10178683
	estimated_end	10266683	
CH321-19A11 3R	14869578	14957578	located_end 14869578
	estimated_end	14957578	

CH321-19A12 2R	20267215	20355215	located_end	20267215
	estimated_end	20355215		
CH321-19A13 X	12755410	12843410	estimated_end	12755410
	located_end	12843410		
CH321-19A14 2L	8991975	9079975	located_end	8991975
	estimated_end	9079975		
CH321-19A15 3L	16494788	16582788	estimated_end	16494788
	located_end	16582788		
CH321-19A16 3L	7747722	7835722	estimated_end	7747722
	located_end	7835722		
CH321-19A17 2L	1709093	1797093	located_end	1709093
	estimated_end	1797093		
CH321-19A18 3L	10544014	10632014	estimated_end	10544014
	located_end	10632014		
CH321-19A19 X	7406486	7494486	located_end	7406486
	estimated_end	7494486		
CH321-19A20 2R	11581906	11669906	estimated_end	11581906
	located_end	11669906		
CH321-19A22 2L	6537761	6625761	located_end	6537761
	estimated_end	6625761		
CH321-19A23 2L	10405152	10493152	estimated_end	10405152
	located_end	10493152		
CH321-19A24 2R	13596718	13684718	located_end	13596718
	estimated_end	13684718		
CH321-19B01 2R	5073267	5161267	located_end	5073267
	estimated_end	5161267		
CH321-19B02 4	836673	924673	estimated_end	836673
	located_end	924673		
CH321-19B03 3R	5699773	5787773	located_end	5699773
	estimated_end	5787773		
CH321-19B04 3R	569725	657725	located_end	569725
	estimated_end	657725		
CH321-19B05 3R	22081092	22169092	located_end	22081092
	estimated_end	22169092		
CH321-19B06 3R	4978083	5066083	located_end	4978083
	estimated_end	5066083		
CH321-19B08 2L	10439855	10527855	estimated_end	10439855
	located_end	10527855		
CH321-19B09 3L	16192478	16280478	estimated_end	16192478
	located_end	16280478		
CH321-19B10 2L	18291479	18379479	estimated_end	18291479
	located_end	18379479		
CH321-19B11 3R	8937767	9025767	located_end	8937767
	estimated_end	9025767		
CH321-19B14 2R	4769859	4857859	located_end	4769859
	estimated_end	4857859		
CH321-19B16 3R	8775384	8863384	located_end	8775384
	estimated_end	8863384		
CH321-19B17 2L	3194748	3282748	located_end	3194748
	estimated_end	3282748		
CH321-19B18 3R	20839033	20927033	located_end	20839033
	estimated_end	20927033		
CH321-19B19 3L	22236509	22324509	estimated_end	22236509
	located_end	22324509		

CH321-19B21 X	13667164	13755164	estimated_end	13667164
	located_end	13755164		
CH321-19B22 3R	1802520	1890520	estimated_end	1802520
	located_end	1890520		
CH321-19B23 X	12680381	12768381	located_end	12680381
	estimated_end	12768381		
CH321-19B24 2R	19230514	19318514	estimated_end	19230514
	located_end	19318514		
CH321-19C01 ArmU	5470234	5558234	estimated_end	5470234
	located_end	5558234		
CH321-19C02 2L	15540597	15628597	located_end	15540597
	estimated_end	15628597		
CH321-19C03 3R	3538372	3626372	estimated_end	3538372
	located_end	3626372		
CH321-19C06 2R	1997415	2085415	estimated_end	1997415
	located_end	2085415		
CH321-19C07 3L	301192	389192	located_end	301192
	estimated_end	389192		
CH321-19C08 3R	27695180	27783180	estimated_end	27695180
	located_end	27783180		
CH321-19C09 2L	11054989	11142989	estimated_end	11054989
	located_end	11142989		
CH321-19C10 2R	13412848	13500848	located_end	13412848
	estimated_end	13500848		
CH321-19C12 3R	21417719	21505719	estimated_end	21417719
	located_end	21505719		
CH321-19C13 2L	15958416	16046416	estimated_end	15958416
	located_end	16046416		
CH321-19C14 X	12178751	12266751	estimated_end	12178751
	located_end	12266751		
CH321-19C18 2L	8601148	8689148	estimated_end	8601148
	located_end	8689148		
CH321-19C21 2L	18143842	18231842	estimated_end	18143842
	located_end	18231842		
CH321-19C23 3R	8734495	8822495	estimated_end	8734495
	located_end	8822495		
CH321-19C24 2R	8936992	9024992	located_end	8936992
	estimated_end	9024992		
CH321-19D01 3R	6049726	6137726	estimated_end	6049726
	located_end	6137726		
CH321-19D02 2R	16526713	16614713	located_end	16526713
	estimated_end	16614713		
CH321-19D03 2R	6041718	6129718	estimated_end	6041718
	located_end	6129718		
CH321-19D04 3L	9259381	9347381	located_end	9259381
	estimated_end	9347381		
CH321-19D05 2L	19557952	19645952	estimated_end	19557952
	located_end	19645952		
CH321-19D06 3R	21495306	21583306	estimated_end	21495306
	located_end	21583306		
CH321-19D07 2R	5864773	5952773	estimated_end	5864773
	located_end	5952773		
CH321-19D08 X	11994796	12082796	located_end	11994796
	estimated_end	12082796		

CH321-19D09 3L	9191440	9279440	estimated_end	9191440
	located_end	9279440		
CH321-19D10 3R	689821	777821	located_end	689821
	estimated_end	777821		
CH321-19D11 3R	945990	1033990	estimated_end	945990
	located_end	1033990		
CH321-19D13 X	18002784	18090784	estimated_end	18002784
	located_end	18090784		
CH321-19D14 2L	3554034	3642034	estimated_end	3554034
	located_end	3642034		
CH321-19D15 2R	14834718	14922718	estimated_end	14834718
	located_end	14922718		
CH321-19D18 3R	16712348	16800348	located_end	16712348
	estimated_end	16800348		
CH321-19D22 3R	7552379	7640379	estimated_end	7552379
	located_end	7640379		
CH321-19D23 3R	8655899	8743899	estimated_end	8655899
	located_end	8743899		
CH321-19D24 3R	4927037	5015037	located_end	4927037
	estimated_end	5015037		
CH321-19E02 3R	24944635	25032635	located_end	24944635
	estimated_end	25032635		
CH321-19E03 X	12622514	12710514	located_end	12622514
	estimated_end	12710514		
CH321-19E05 3R	25259829	25347829	estimated_end	25259829
	located_end	25347829		
CH321-19E06 3R	7271621	7359621	located_end	7271621
	estimated_end	7359621		
CH321-19E07 X	10396522	10484522	located_end	10396522
	estimated_end	10484522		
CH321-19E08 3L	7976899	8064899	located_end	7976899
	estimated_end	8064899		
CH321-19E10 2L	15279997	15367997	located_end	15279997
	estimated_end	15367997		
CH321-19E11 3L	16427936	16515936	estimated_end	16427936
	located_end	16515936		
CH321-19E16 2R	16246829	16334829	located_end	16246829
	estimated_end	16334829		
CH321-19E21 2L	17766635	17854635	located_end	17766635
	estimated_end	17854635		
CH321-19E22 3L	19773770	19861770	located_end	19773770
	estimated_end	19861770		
CH321-19E24 2R	5789809	5877809	estimated_end	5789809
	located_end	5877809		
CH321-19F01 3L	21390608	21478608	located_end	21390608
	estimated_end	21478608		
CH321-19F02 3L	13950029	14038029	located_end	13950029
	estimated_end	14038029		
CH321-19F03 2R	12710288	12798288	estimated_end	12710288
	located_end	12798288		
CH321-19F04 X	15587839	15675839	estimated_end	15587839
	located_end	15675839		
CH321-19F05 3L	8750052	8838052	estimated_end	8750052
	located_end	8838052		

CH321-19F06 3L	1844595	1932595	located_end	1844595
	estimated_end	1932595		
CH321-19F10 X	17763635	17851635	estimated_end	17763635
	located_end	17851635		
CH321-19F11 3L	12968940	13056940	estimated_end	12968940
	located_end	13056940		
CH321-19F12 3L	11080491	11168491	estimated_end	11080491
	located_end	11168491		
CH321-19F14 2R	16246814	16334814	located_end	16246814
	estimated_end	16334814		
CH321-19F15 2R	6618371	6706371	located_end	6618371
	estimated_end	6706371		
CH321-19F16 2L	18603257	18691257	estimated_end	18603257
	located_end	18691257		
CH321-19F17 3R	24736684	24824684	located_end	24736684
	estimated_end	24824684		
CH321-19F22 2R	13910618	13998618	located_end	13910618
	estimated_end	13998618		
CH321-19F23 2R	10107165	10195165	located_end	10107165
	estimated_end	10195165		
CH321-19G02 2L	5230093	5318093	estimated_end	5230093
	located_end	5318093		
CH321-19G03 3R	9695699	9783699	located_end	9695699
	estimated_end	9783699		
CH321-19G04 3R	27820020	27908020	located_end	27820020
	estimated_end	27908020		
CH321-19G06 3R	20486295	20574295	located_end	20486295
	estimated_end	20574295		
CH321-19G07 3R	6039330	6127330	estimated_end	6039330
	located_end	6127330		
CH321-19G08 3R	21222672	21310672	located_end	21222672
	estimated_end	21310672		
CH321-19G09 3L	19195735	19283735	located_end	19195735
	estimated_end	19283735		
CH321-19G10 2R	13720712	13808712	estimated_end	13720712
	located_end	13808712		
CH321-19G16 X	10835932	10923932	located_end	10835932
	estimated_end	10923932		
CH321-19G17 3L	21544046	21632046	estimated_end	21544046
	located_end	21632046		
CH321-19G22 3R	15146306	15234306	estimated_end	15146306
	located_end	15234306		
CH321-19G23 3L	21538280	21626280	located_end	21538280
	estimated_end	21626280		
CH321-19G24 3L	3842909	3930909	located_end	3842909
	estimated_end	3930909		
CH321-19H02 3L	6197836	6285836	estimated_end	6197836
	located_end	6285836		
CH321-19H03 X	3224104	3312104	located_end	3224104
	estimated_end	3312104		
CH321-19H04 3R	2528639	2616639	estimated_end	2528639
	located_end	2616639		
CH321-19H05 2L	4698852	4786852	estimated_end	4698852
	located_end	4786852		

CH321-19H07 3L	21512034	21600034	estimated_end	21512034
	located_end	21600034		
CH321-19H09 3R	7328609	7416609	located_end	7328609
	estimated_end	7416609		
CH321-19H10 X	5331058	5419058	estimated_end	5331058
	located_end	5419058		
CH321-19H11 2R	17609774	17697774	located_end	17609774
	estimated_end	17697774		
CH321-19H12 2R	14959068	15047068	estimated_end	14959068
	located_end	15047068		
CH321-19H18 2R	14472256	14560256	located_end	14472256
	estimated_end	14560256		
CH321-19H23 3R	14220521	14308521	located_end	14220521
	estimated_end	14308521		
CH321-19H24 3R	5888326	5976326	located_end	5888326
	estimated_end	5976326		
CH321-19I01 3L	6113040	6201040	estimated_end	6113040
	located_end	6201040		
CH321-19I02 2R	17629784	17717784	estimated_end	17629784
	located_end	17717784		
CH321-19I03 3L	7244348	7332348	located_end	7244348
	estimated_end	7332348		
CH321-19I04 2R	8214218	8302218	estimated_end	8214218
	located_end	8302218		
CH321-19I05 3L	16388235	16476235	estimated_end	16388235
	located_end	16476235		
CH321-19I06 3R	16728716	16816716	located_end	16728716
	estimated_end	16816716		
CH321-19I07 3L	13425458	13513458	located_end	13425458
	estimated_end	13513458		
CH321-19I09 3L	22849190	22937190	estimated_end	22849190
	located_end	22937190		
CH321-19I10 X	6564820	6652820	estimated_end	6564820
	located_end	6652820		
CH321-19I11 3R	3983291	4071291	estimated_end	3983291
	located_end	4071291		
CH321-19I15 3L	4897884	4985884	estimated_end	4897884
	located_end	4985884		
CH321-19I19 3L	24186427	24274427	located_end	24186427
	estimated_end	24274427		
CH321-19I20 3R	24763067	24851067	located_end	24763067
	estimated_end	24851067		
CH321-19I24 2L	15698733	15786733	estimated_end	15698733
	located_end	15786733		
CH321-19J02 2R	16940835	17028835	estimated_end	16940835
	located_end	17028835		
CH321-19J03 2RHet	2809056	2897056	estimated_end	2809056
	located_end	2897056		
CH321-19J04 2R	12846516	12934516	located_end	12846516
	estimated_end	12934516		
CH321-19J05 2R	10776749	10864749	estimated_end	10776749
	located_end	10864749		
CH321-19J06 3R	2078781	2166781	estimated_end	2078781
	located_end	2166781		

CH321-19J07 ArmU	8480223	8568223	located_end	8480223
	estimated_end	8568223		
CH321-19J13 2L	6997794	7085794	estimated_end	6997794
	located_end	7085794		
CH321-19J14 2L	8867198	8955198	estimated_end	8867198
	located_end	8955198		
CH321-19J15 3L	14228361	14316361	located_end	14228361
	estimated_end	14316361		
CH321-19J16 3L	21441360	21529360	located_end	21441360
	estimated_end	21529360		
CH321-19J23 2R	15467150	15555150	estimated_end	15467150
	located_end	15555150		
CH321-19J24 3R	6839672	6927672	estimated_end	6839672
	located_end	6927672		
CH321-19K03 X	3037072	3125072	located_end	3037072
	estimated_end	3125072		
CH321-19K06 X	19805006	19893006	estimated_end	19805006
	located_end	19893006		
CH321-19K07 2R	487370	575370	located_end	487370
	estimated_end	575370		
CH321-19K10 2R	18607053	18695053	estimated_end	18607053
	located_end	18695053		
CH321-19K11 3L	8255418	8343418	located_end	8255418
	estimated_end	8343418		
CH321-19K12 3L	21466984	21554984	located_end	21466984
	estimated_end	21554984		
CH321-19K17 2L	20840989	20928989	estimated_end	20840989
	located_end	20928989		
CH321-19K18 X	15515081	15603081	estimated_end	15515081
	located_end	15603081		
CH321-19K19 2L	443543	531543	located_end	443543
	estimated_end	531543		
CH321-19K20 2L	14745136	14833136	located_end	14745136
	estimated_end	14833136		
CH321-19K21 3L	12607040	12695040	estimated_end	12607040
	located_end	12695040		
CH321-19K22 3L	12699518	12787518	located_end	12699518
	estimated_end	12787518		
CH321-19K23 2L	19764292	19852292	located_end	19764292
	estimated_end	19852292		
CH321-19K24 2L	18381283	18469283	estimated_end	18381283
	located_end	18469283		
CH321-19L01 2L	11258664	11346664	located_end	11258664
	estimated_end	11346664		
CH321-19L03 2R	4077854	4165854	located_end	4077854
	estimated_end	4165854		
CH321-19L04 X	16828621	16916621	estimated_end	16828621
	located_end	16916621		
CH321-19L05 2RHet	1442579	1530579	located_end	1442579
	estimated_end	1530579		
CH321-19L06 3L	968161	1056161	estimated_end	968161
	located_end	1056161		
CH321-19L09 3R	21500406	21588406	estimated_end	21500406
	located_end	21588406		

CH321-19L10 X	17245866	17333866	estimated_end	17245866
	located_end	17333866		
CH321-19L11 2L	2087560	2175560	estimated_end	2087560
	located_end	2175560		
CH321-19L12 3R	27150479	27238479	located_end	27150479
	estimated_end	27238479		
CH321-19L13 X	16802438	16890438	estimated_end	16802438
	located_end	16890438		
CH321-19L14 3L	18397389	18485389	located_end	18397389
	estimated_end	18485389		
CH321-19L15 2R	18491157	18579157	located_end	18491157
	estimated_end	18579157		
CH321-19L17 2L	3063947	3151947	estimated_end	3063947
	located_end	3151947		
CH321-19L18 2L	8691550	8779550	located_end	8691550
	estimated_end	8779550		
CH321-19L19 2L	16669397	16757397	located_end	16669397
	estimated_end	16757397		
CH321-19L20 3R	8107647	8195647	located_end	8107647
	estimated_end	8195647		
CH321-19L21 3LHet	1925614	2013614	located_end	1925614
	estimated_end	2013614		
CH321-19L23 3R	1251535	1339535	located_end	1251535
	estimated_end	1339535		
CH321-19L24 3R	3690573	3778573	located_end	3690573
	estimated_end	3778573		
CH321-19M01 3R	22665477	22753477	estimated_end	22665477
	located_end	22753477		
CH321-19M02 2RHet	115635	203635	estimated_end	115635
	located_end	203635		
CH321-19M03 2R	18879261	18967261	estimated_end	18879261
	located_end	18967261		
CH321-19M04 2LHet	-37281	50719	estimated_end	-37281
	located_end	50719		
CH321-19M05 2R	16869123	16957123	estimated_end	16869123
	located_end	16957123		
CH321-19M06 X	17472632	17560632	located_end	17472632
	estimated_end	17560632		
CH321-19M07 2L	8875826	8963826	estimated_end	8875826
	located_end	8963826		
CH321-19M08 2L	7095810	7183810	estimated_end	7095810
	located_end	7183810		
CH321-19M10 X	11970286	12058286	estimated_end	11970286
	located_end	12058286		
CH321-19M11 2L	17979388	18067388	estimated_end	17979388
	located_end	18067388		
CH321-19M12 2L	10468438	10556438	located_end	10468438
	estimated_end	10556438		
CH321-19M13 3R	15758176	15846176	located_end	15758176
	estimated_end	15846176		
CH321-19M14 2L	6226507	6314507	located_end	6226507
	estimated_end	6314507		
CH321-19M15 2L	761932	849932	estimated_end	761932
	located_end	849932		

CH321-19M16 X	5512241	5600241	estimated_end	5512241
	located_end	5600241		
CH321-19M17 4	1064667	1152667	estimated_end	1064667
	located_end	1152667		
CH321-19M18 3L	6613718	6701718	estimated_end	6613718
	located_end	6701718		
CH321-19M19 2R	12931549	13019549	located_end	12931549
	estimated_end	13019549		
CH321-19M21 2L	8504865	8592865	located_end	8504865
	estimated_end	8592865		
CH321-19M23 3L	11267773	11355773	estimated_end	11267773
	located_end	11355773		
CH321-19N01 2R	5488571	5576571	located_end	5488571
	estimated_end	5576571		
CH321-19N03 3L	18604069	18692069	located_end	18604069
	estimated_end	18692069		
CH321-19N04 2L	10232264	10320264	located_end	10232264
	estimated_end	10320264		
CH321-19N05 3R	12664962	12752962	located_end	12664962
	estimated_end	12752962		
CH321-19N06 ArmU	1229986	1317986	located_end	1229986
	estimated_end	1317986		
CH321-19N07 X	14216485	14304485	located_end	14216485
	estimated_end	14304485		
CH321-19N10 3L	17794513	17882513	estimated_end	17794513
	located_end	17882513		
CH321-19N11 3L	9602776	9690776	estimated_end	9602776
	located_end	9690776		
CH321-19N15 2L	21935016	22023016	located_end	21935016
	estimated_end	22023016		
CH321-19N17 X	1677640	1765640	located_end	1677640
	estimated_end	1765640		
CH321-19N21 3L	21015244	21103244	estimated_end	21015244
	located_end	21103244		
CH321-19N22 2L	18858649	18946649	located_end	18858649
	estimated_end	18946649		
CH321-19N23 2R	13898081	13986081	located_end	13898081
	estimated_end	13986081		
CH321-19N24 X	4242023	4330023	estimated_end	4242023
	located_end	4330023		
CH321-19O01 3R	14289806	14377806	estimated_end	14289806
	located_end	14377806		
CH321-19O03 2R	6769785	6857785	estimated_end	6769785
	located_end	6857785		
CH321-19O05 2R	10552483	10640483	estimated_end	10552483
	located_end	10640483		
CH321-19O06 X	20268843	20356843	estimated_end	20268843
	located_end	20356843		
CH321-19O07 3R	6969367	7057367	estimated_end	6969367
	located_end	7057367		
CH321-19O08 X	12694857	12782857	estimated_end	12694857
	located_end	12782857		
CH321-19O11 X	4705763	4793763	located_end	4705763
	estimated_end	4793763		

CH321-19O14 2L	8889390	8977390	estimated_end	8889390
	located_end	8977390		
CH321-19O15 2L	18352409	18440409	estimated_end	18352409
	located_end	18440409		
CH321-19O18 2L	21602973	21690973	estimated_end	21602973
	located_end	21690973		
CH321-19O20 3R	1500411	1588411	located_end	1500411
	estimated_end	1588411		
CH321-19O23 3L	9958970	10046970	located_end	9958970
	estimated_end	10046970		
CH321-19P05 2R	11870943	11958943	estimated_end	11870943
	located_end	11958943		
CH321-19P06 2R	5832461	5920461	estimated_end	5832461
	located_end	5920461		
CH321-19P07 2L	11323643	11411643	located_end	11323643
	estimated_end	11411643		
CH321-19P08 3L	9245050	9333050	estimated_end	9245050
	located_end	9333050		
CH321-19P09 3R	1057119	1145119	estimated_end	1057119
	located_end	1145119		
CH321-19P10 2R	3706095	3794095	estimated_end	3706095
	located_end	3794095		
CH321-19P11 3L	1934850	2022850	estimated_end	1934850
	located_end	2022850		
CH321-19P12 3L	5963576	6051576	located_end	5963576
	estimated_end	6051576		
CH321-19P13 2L	4697287	4785287	located_end	4697287
	estimated_end	4785287		
CH321-19P14 3L	14329653	14417653	located_end	14329653
	estimated_end	14417653		
CH321-19P15 2L	13994702	14082702	estimated_end	13994702
	located_end	14082702		
CH321-19P16 X	3413946	3501946	located_end	3413946
	estimated_end	3501946		
CH321-19P17 2L	13301618	13389618	estimated_end	13301618
	located_end	13389618		
CH321-19P18 3L	18082924	18170924	estimated_end	18082924
	located_end	18170924		
CH321-19P19 3L	20137669	20225669	estimated_end	20137669
	located_end	20225669		
CH321-19P20 2R	12803045	12891045	estimated_end	12803045
	located_end	12891045		
CH321-19P21 3L	22145876	22233876	estimated_end	22145876
	located_end	22233876		
CH321-20A04 2R	9946687	10034687	estimated_end	9946687
	located_end	10034687		
CH321-20A05 X	20395516	20483516	located_end	20395516
	estimated_end	20483516		
CH321-20A06 2R	4855323	4943323	located_end	4855323
	estimated_end	4943323		
CH321-20A07 X	9263800	9351800	estimated_end	9263800
	located_end	9351800		
CH321-20A08 2R	5936484	6024484	estimated_end	5936484
	located_end	6024484		

CH321-20A09 2L	5805102	5893102	estimated_end	5805102
	located_end	5893102		
CH321-20A10 2RHet	2301283	2389283	estimated_end	2301283
	located_end	2389283		
CH321-20A11 3L	17909968	17997968	estimated_end	17909968
	located_end	17997968		
CH321-20A13 2L	986722	1074722	estimated_end	986722
	located_end	1074722		
CH321-20A14 2L	4051554	4139554	located_end	4051554
	estimated_end	4139554		
CH321-20A15 3L	8607291	8695291	estimated_end	8607291
	located_end	8695291		
CH321-20A16 2L	12120492	12208492	estimated_end	12120492
	located_end	12208492		
CH321-20A18 2L	18191501	18279501	located_end	18191501
	estimated_end	18279501		
CH321-20A19 3L	15683791	15771791	located_end	15683791
	estimated_end	15771791		
CH321-20A20 2R	13149626	13237626	located_end	13149626
	estimated_end	13237626		
CH321-20A21 3R	13733923	13821923	located_end	13733923
	estimated_end	13821923		
CH321-20A22 X	7220757	7308757	estimated_end	7220757
	located_end	7308757		
CH321-20A23 2L	13776597	13864597	estimated_end	13776597
	located_end	13864597		
CH321-20A24 3L	24289477	24377477	located_end	24289477
	estimated_end	24377477		
CH321-20B01 2R	10363257	10451257	estimated_end	10363257
	located_end	10451257		
CH321-20B02 2R	12894535	12982535	located_end	12894535
	estimated_end	12982535		
CH321-20B03 3R	6724782	6812782	estimated_end	6724782
	located_end	6812782		
CH321-20B04 X	16071451	16159451	located_end	16071451
	estimated_end	16159451		
CH321-20B06 2L	16581400	16669400	estimated_end	16581400
	located_end	16669400		
CH321-20B07 3L	21264244	21352244	located_end	21264244
	estimated_end	21352244		
CH321-20B08 2R	8890170	8978170	located_end	8890170
	estimated_end	8978170		
CH321-20B10 2L	3557284	3645284	estimated_end	3557284
	located_end	3645284		
CH321-20B12 2R	17608765	17696765	located_end	17608765
	estimated_end	17696765		
CH321-20B13 2L	7248364	7336364	located_end	7248364
	estimated_end	7336364		
CH321-20B14 2R	11612294	11700294	located_end	11612294
	estimated_end	11700294		
CH321-20B15 3L	12937590	13025590	estimated_end	12937590
	located_end	13025590		
CH321-20B16 3R	2289689	2377689	estimated_end	2289689
	located_end	2377689		

CH321-20B18 2R	19126794	19214794	estimated_end	19126794
	located_end	19214794		
CH321-20B19 3R	3284973	3372973	located_end	3284973
	estimated_end	3372973		
CH321-20B20 4	417943	505943	located_end	417943
	estimated_end	505943		
CH321-20B21 2L	7388975	7476975	located_end	7388975
	estimated_end	7476975		
CH321-20B22 3L	8219261	8307261	located_end	8219261
	estimated_end	8307261		
CH321-20B23 3R	6393045	6481045	located_end	6393045
	estimated_end	6481045		
CH321-20B24 3R	10433091	10521091	located_end	10433091
	estimated_end	10521091		
CH321-20C01 3L	7944988	8032988	estimated_end	7944988
	located_end	8032988		
CH321-20C02 3R	11489241	11577241	estimated_end	11489241
	located_end	11577241		
CH321-20C03 3R	204111	292111	located_end	204111
	estimated_end	292111		
CH321-20C04 3R	27092763	27180763	located_end	27092763
	estimated_end	27180763		
CH321-20C05 3R	10106832	10194832	located_end	10106832
	estimated_end	10194832		
CH321-20C06 3L	14849838	14937838	estimated_end	14849838
	located_end	14937838		
CH321-20C07 2L	20470202	20558202	estimated_end	20470202
	located_end	20558202		
CH321-20C08 3R	10329977	10417977	located_end	10329977
	estimated_end	10417977		
CH321-20C09 X	5547732	5635732	located_end	5547732
	estimated_end	5635732		
CH321-20C10 3L	21336942	21424942	estimated_end	21336942
	located_end	21424942		
CH321-20C11 2L	19252489	19340489	estimated_end	19252489
	located_end	19340489		
CH321-20C12 2L	8122972	8210972	located_end	8122972
	estimated_end	8210972		
CH321-20C13 3L	4260960	4348960	located_end	4260960
	estimated_end	4348960		
CH321-20C14 3R	12316855	12404855	located_end	12316855
	estimated_end	12404855		
CH321-20C15 2L	18156609	18244609	located_end	18156609
	estimated_end	18244609		
CH321-20C16 2L	15969236	16057236	located_end	15969236
	estimated_end	16057236		
CH321-20C17 2L	9450579	9538579	estimated_end	9450579
	located_end	9538579		
CH321-20C19 X	10448996	10536996	estimated_end	10448996
	located_end	10536996		
CH321-20C21 X	6388402	6476402	located_end	6388402
	estimated_end	6476402		
CH321-20C22 X	19057936	19145936	located_end	19057936
	estimated_end	19145936		

CH321-20C24 3R	23572623	23660623	located_end	23572623
	estimated_end	23660623		
CH321-20D01 3R	15857640	15945640	located_end	15857640
	estimated_end	15945640		
CH321-20D03 X	16050723	16138723	estimated_end	16050723
	located_end	16138723		
CH321-20D04 2R	3131446	3219446	located_end	3131446
	estimated_end	3219446		
CH321-20D05 2L	2876235	2964235	located_end	2876235
	estimated_end	2964235		
CH321-20D08 3R	22014599	22102599	estimated_end	22014599
	located_end	22102599		
CH321-20D09 2R	7583400	7671400	estimated_end	7583400
	located_end	7671400		
CH321-20D10 2L	11577485	11665485	estimated_end	11577485
	located_end	11665485		
CH321-20D11 X	4981711	5069711	estimated_end	4981711
	located_end	5069711		
CH321-20D12 3L	620336	708336	estimated_end	620336
	located_end	708336		
CH321-20D16 2L	17513343	17601343	located_end	17513343
	estimated_end	17601343		
CH321-20D17 3L	17183421	17271421	estimated_end	17183421
	located_end	17271421		
CH321-20D18 3R	14644291	14732291	located_end	14644291
	estimated_end	14732291		
CH321-20D20 ArmU	2089828	2177828	located_end	2089828
	estimated_end	2177828		
CH321-20D23 3R	11533619	11621619	estimated_end	11533619
	located_end	11621619		
CH321-20E01 3R	20828261	20916261	located_end	20828261
	estimated_end	20916261		
CH321-20E02 2R	2732577	2820577	estimated_end	2732577
	located_end	2820577		
CH321-20E03 2R	21014228	21102228	estimated_end	21014228
	located_end	21102228		
CH321-20E04 3R	4348878	4436878	located_end	4348878
	estimated_end	4436878		
CH321-20E05 ArmU	7808968	7896968	estimated_end	7808968
	located_end	7896968		
CH321-20E06 3R	2994241	3082241	located_end	2994241
	estimated_end	3082241		
CH321-20E08 3L	10243784	10331784	located_end	10243784
	estimated_end	10331784		
CH321-20E11 2L	18358608	18446608	estimated_end	18358608
	located_end	18446608		
CH321-20E13 2L	8020441	8108441	estimated_end	8020441
	located_end	8108441		
CH321-20E15 3RHet	2210436	2298436	estimated_end	2210436
	located_end	2298436		
CH321-20E17 3L	17183421	17271421	estimated_end	17183421
	located_end	17271421		
CH321-20E18 2R	-5629	82371	estimated_end	-5629
			located_end	82371

CH321-20E19 X	3874299	3962299	estimated_end	3874299
	located_end	3962299		
CH321-20E21 2R	14066124	14154124	estimated_end	14066124
	located_end	14154124		
CH321-20E22 X	2563059	2651059	located_end	2563059
	estimated_end	2651059		
CH321-20E23 3R	15052540	15140540	estimated_end	15052540
	located_end	15140540		
CH321-20F01 2L	16082159	16170159	located_end	16082159
	estimated_end	16170159		
CH321-20F02 3R	12663431	12751431	located_end	12663431
	estimated_end	12751431		
CH321-20F04 2R	8967636	9055636	estimated_end	8967636
	located_end	9055636		
CH321-20F05 2L	6380868	6468868	estimated_end	6380868
	located_end	6468868		
CH321-20F07 2R	17740954	17828954	located_end	17740954
	estimated_end	17828954		
CH321-20F09 2L	19967251	20055251	estimated_end	19967251
	located_end	20055251		
CH321-20F10 3L	2552354	2640354	estimated_end	2552354
	located_end	2640354		
CH321-20F12 2L	2283656	2371656	estimated_end	2283656
	located_end	2371656		
CH321-20F14 2L	19828679	19916679	located_end	19828679
	estimated_end	19916679		
CH321-20F16 3L	4464366	4552366	estimated_end	4464366
	located_end	4552366		
CH321-20F17 3L	23726083	23814083	estimated_end	23726083
	located_end	23814083		
CH321-20F18 X	16815060	16903060	estimated_end	16815060
	located_end	16903060		
CH321-20F20 2R	17276415	17364415	located_end	17276415
	estimated_end	17364415		
CH321-20F21 3L	6096023	6184023	estimated_end	6096023
	located_end	6184023		
CH321-20F22 2L	14843264	14931264	estimated_end	14843264
	located_end	14931264		
CH321-20F24 3L	15015232	15103232	estimated_end	15015232
	located_end	15103232		
CH321-20G01 X	16514753	16602753	located_end	16514753
	estimated_end	16602753		
CH321-20G02 3L	6965524	7053524	estimated_end	6965524
	located_end	7053524		
CH321-20G03 3R	20510736	20598736	located_end	20510736
	estimated_end	20598736		
CH321-20G04 2L	5338062	5426062	located_end	5338062
	estimated_end	5426062		
CH321-20G06 X	9452124	9540124	located_end	9452124
	estimated_end	9540124		
CH321-20G09 3L	17534051	17622051	estimated_end	17534051
	located_end	17622051		
CH321-20G14 2L	10071994	10159994	located_end	10071994
	estimated_end	10159994		

CH321-20G16 2R	15150030	15238030	located_end	15150030
	estimated_end	15238030		
CH321-20G19 3R	21297563	21385563	estimated_end	21297563
	located_end	21385563		
CH321-20G21 2L	9450579	9538579	estimated_end	9450579
	located_end	9538579		
CH321-20G22 3L	3643295	3731295	estimated_end	3643295
	located_end	3731295		
CH321-20G23 2L	8805494	8893494	estimated_end	8805494
	located_end	8893494		
CH321-20G24 3L	16778929	16866929	located_end	16778929
	estimated_end	16866929		
CH321-20H02 3R	2628820	2716820	located_end	2628820
	estimated_end	2716820		
CH321-20H03 3L	2781184	2869184	located_end	2781184
	estimated_end	2869184		
CH321-20H04 2R	17787553	17875553	estimated_end	17787553
	located_end	17875553		
CH321-20H06 3R	21803170	21891170	estimated_end	21803170
	located_end	21891170		
CH321-20H07 3R	5308951	5396951	estimated_end	5308951
	located_end	5396951		
CH321-20H11 2R	12751316	12839316	located_end	12751316
	estimated_end	12839316		
CH321-20H12 3R	16229009	16317009	located_end	16229009
	estimated_end	16317009		
CH321-20H14 2R	15041443	15129443	estimated_end	15041443
	located_end	15129443		
CH321-20H15 3R	19611015	19699015	estimated_end	19611015
	located_end	19699015		
CH321-20H17 X	16310782	16398782	located_end	16310782
	estimated_end	16398782		
CH321-20H18 X	14405775	14493775	located_end	14405775
	estimated_end	14493775		
CH321-20H20 X	9358625	9446625	estimated_end	9358625
	located_end	9446625		
CH321-20H21 2L	1487833	1575833	estimated_end	1487833
	located_end	1575833		
CH321-20H22 X	9674360	9762360	estimated_end	9674360
	located_end	9762360		
CH321-20H24 3L	8781832	8869832	estimated_end	8781832
	located_end	8869832		
CH321-20I01 2R	15706219	15794219	located_end	15706219
	estimated_end	15794219		
CH321-20I02 3L	8033423	8121423	estimated_end	8033423
	located_end	8121423		
CH321-20I03 2L	21861453	21949453	located_end	21861453
	estimated_end	21949453		
CH321-20I04 3L	12790873	12878873	located_end	12790873
	estimated_end	12878873		
CH321-20I05 X	7691176	7779176	located_end	7691176
	estimated_end	7779176		
CH321-20I06 3R	22645340	22733340	estimated_end	22645340
	located_end	22733340		

CH321-20I07 3L	11861271	11949271	located_end	11861271
	estimated_end	11949271		
CH321-20I08 2L	7070580	7158580	estimated_end	7070580
	located_end	7158580		
CH321-20I10 X	3758713	3846713	located_end	3758713
	estimated_end	3846713		
CH321-20I11 3R	4876866	4964866	estimated_end	4876866
	located_end	4964866		
CH321-20I12 X	16438715	16526715	estimated_end	16438715
	located_end	16526715		
CH321-20I13 X	7120551	7208551	located_end	7120551
	estimated_end	7208551		
CH321-20I16 2R	11697066	11785066	estimated_end	11697066
	located_end	11785066		
CH321-20I17 X	7848060	7936060	located_end	7848060
	estimated_end	7936060		
CH321-20I18 2L	3765582	3853582	located_end	3765582
	estimated_end	3853582		
CH321-20I20 3L	9953543	10041543	located_end	9953543
	estimated_end	10041543		
CH321-20I21 2R	4989625	5077625	located_end	4989625
	estimated_end	5077625		
CH321-20I24 X	16491981	16579981	located_end	16491981
	estimated_end	16579981		
CH321-20J01 2R	10014269	10102269	located_end	10014269
	estimated_end	10102269		
CH321-20J02 2L	17716458	17804458	located_end	17716458
	estimated_end	17804458		
CH321-20J03 3L	10652331	10740331	estimated_end	10652331
	located_end	10740331		
CH321-20J05 2R	20982251	21070251	located_end	20982251
	estimated_end	21070251		
CH321-20J06 3L	11382489	11470489	located_end	11382489
	estimated_end	11470489		
CH321-20J07 3L	18449213	18537213	estimated_end	18449213
	located_end	18537213		
CH321-20J08 X	10021765	10109765	estimated_end	10021765
	located_end	10109765		
CH321-20J09 2L	20077027	20165027	located_end	20077027
	estimated_end	20165027		
CH321-20J10 2R	8404142	8492142	estimated_end	8404142
	located_end	8492142		
CH321-20J11 2R	17116803	17204803	estimated_end	17116803
	located_end	17204803		
CH321-20J14 2R	15832062	15920062	located_end	15832062
	estimated_end	15920062		
CH321-20J15 2R	16881596	16969596	located_end	16881596
	estimated_end	16969596		
CH321-20J17 2RHet	1967871	2055871	located_end	1967871
	estimated_end	2055871		
CH321-20J18 X	19610253	19698253	located_end	19610253
	estimated_end	19698253		
CH321-20J21 X	12877157	12965157	located_end	12877157
	estimated_end	12965157		

CH321-20J24 2L	22221030	22309030	estimated_end	22221030
	located_end	22309030		
CH321-20K01 3R	1161780	1249780	located_end	1161780
	estimated_end	1249780		
CH321-20K02 X	14606972	14694972	located_end	14606972
	estimated_end	14694972		
CH321-20K03 2L	14197085	14285085	located_end	14197085
	estimated_end	14285085		
CH321-20K04 2R	3383006	3471006	estimated_end	3383006
	located_end	3471006		
CH321-20K06 3R	22932015	23020015	estimated_end	22932015
	located_end	23020015		
CH321-20K07 3R	1564814	1652814	estimated_end	1564814
	located_end	1652814		
CH321-20K08 2L	2993098	3081098	estimated_end	2993098
	located_end	3081098		
CH321-20K10 2L	20569678	20657678	estimated_end	20569678
	located_end	20657678		
CH321-20K13 2L	14443048	14531048	estimated_end	14443048
	located_end	14531048		
CH321-20K17 X	8868137	8956137	located_end	8868137
	estimated_end	8956137		
CH321-20K18 3R	25543255	25631255	located_end	25543255
	estimated_end	25631255		
CH321-20K19 2L	20075168	20163168	located_end	20075168
	estimated_end	20163168		
CH321-20K20 2RHet	734812	822812	estimated_end	734812
	located_end	822812		
CH321-20K24 3R	205948	293948	estimated_end	205948
	located_end	293948		
CH321-20L01 3L	21377732	21465732	estimated_end	21377732
	located_end	21465732		
CH321-20L02 2LHet	61544 149544		estimated_end	61544 located_end
	149544			
CH321-20L03 3R	26040775	26128775	located_end	26040775
	estimated_end	26128775		
CH321-20L04 2L	3607476	3695476	estimated_end	3607476
	located_end	3695476		
CH321-20L05 X	14649171	14737171	estimated_end	14649171
	located_end	14737171		
CH321-20L06 3L	7736760	7824760	estimated_end	7736760
	located_end	7824760		
CH321-20L09 3R	8921431	9009431	estimated_end	8921431
	located_end	9009431		
CH321-20L10 3L	15992030	16080030	estimated_end	15992030
	located_end	16080030		
CH321-20L12 3LHet	859219	947219	estimated_end	859219
	located_end	947219		
CH321-20L13 3R	7756925	7844925	located_end	7756925
	estimated_end	7844925		
CH321-20L14 2R	14881003	14969003	located_end	14881003
	estimated_end	14969003		
CH321-20L15 3R	25590049	25678049	estimated_end	25590049
	located_end	25678049		

CH321-20L16 3L	10500570	10588570	located_end	10500570
	estimated_end	10588570		
CH321-20L17 2R	1162198	1250198	estimated_end	1162198
	located_end	1250198		
CH321-20L18 X	9905825	9993825	located_end	9905825
	estimated_end	9993825		
CH321-20L19 2L	14216099	14304099	estimated_end	14216099
	located_end	14304099		
CH321-20L21 2L	18182471	18270471	located_end	18182471
	estimated_end	18270471		
CH321-20L22 X	20752656	20840656	estimated_end	20752656
	located_end	20840656		
CH321-20L23 3L	20669967	20757967	located_end	20669967
	estimated_end	20757967		
CH321-20L24 2R	4017262	4105262	estimated_end	4017262
	located_end	4105262		
CH321-20M02 2R	5649410	5737410	located_end	5649410
	estimated_end	5737410		
CH321-20M03 X	12513007	12601007	estimated_end	12513007
	located_end	12601007		
CH321-20M04 3L	4822404	4910404	estimated_end	4822404
	located_end	4910404		
CH321-20M05 3R	20725532	20813532	located_end	20725532
	estimated_end	20813532		
CH321-20M07 3L	18511272	18599272	estimated_end	18511272
	located_end	18599272		
CH321-20M08 3R	15157978	15245978	estimated_end	15157978
	located_end	15245978		
CH321-20M09 2L	21191008	21279008	located_end	21191008
	estimated_end	21279008		
CH321-20M10 3R	6862021	6950021	located_end	6862021
	estimated_end	6950021		
CH321-20M15 2L	578703	666703	estimated_end	578703
	located_end	666703		
CH321-20M18 3R	21183702	21271702	located_end	21183702
	estimated_end	21271702		
CH321-20M19 3L	12775524	12863524	estimated_end	12775524
	located_end	12863524		
CH321-20M20 2L	1272496	1360496	located_end	1272496
	estimated_end	1360496		
CH321-20M21 2L	10787939	10875939	located_end	10787939
	estimated_end	10875939		
CH321-20M22 X	6018576	6106576	estimated_end	6018576
	located_end	6106576		
CH321-20M23 3R	22041651	22129651	estimated_end	22041651
	located_end	22129651		
CH321-20M24 X	13413675	13501675	located_end	13413675
	estimated_end	13501675		
CH321-20N01 2R	16689712	16777712	estimated_end	16689712
	located_end	16777712		
CH321-20N02 2R	8110212	8198212	estimated_end	8110212
	located_end	8198212		
CH321-20N03 X	20709499	20797499	estimated_end	20709499
	located_end	20797499		

CH321-20N05 3RHet	1945807	2033807	estimated_end	1945807
	located_end	2033807		
CH321-20N08 X	5300739	5388739	located_end	5300739
	estimated_end	5388739		
CH321-20N09 X	18630404	18718404	located_end	18630404
	estimated_end	18718404		
CH321-20N11 3L	17058020	17146020	estimated_end	17058020
	located_end	17146020		
CH321-20N12 2R	4058017	4146017	located_end	4058017
	estimated_end	4146017		
CH321-20N14 2L	17264990	17352990	estimated_end	17264990
	located_end	17352990		
CH321-20N15 2L	19973285	20061285	located_end	19973285
	estimated_end	20061285		
CH321-20N18 ArmU	512432	600432	located_end	512432
	estimated_end	600432		
CH321-20N19 2L	3185230	3273230	located_end	3185230
	estimated_end	3273230		
CH321-20N20 3L	11724630	11812630	located_end	11724630
	estimated_end	11812630		
CH321-20N21 3RHet	56281 144281		estimated_end	56281 located_end
	144281			
CH321-20N22 2L	11434249	11522249	estimated_end	11434249
	located_end	11522249		
CH321-20N24 2R	5652261	5740261	located_end	5652261
	estimated_end	5740261		
CH321-20001 2R	11629696	11717696	estimated_end	11629696
	located_end	11717696		
CH321-20002 X	9490980	9578980	located_end	9490980
	estimated_end	9578980		
CH321-20003 3R	7089376	7177376	located_end	7089376
	estimated_end	7177376		
CH321-20004 3R	20322019	20410019	estimated_end	20322019
	located_end	20410019		
CH321-20005 2R	8331291	8419291	estimated_end	8331291
	located_end	8419291		
CH321-20006 3L	8430452	8518452	located_end	8430452
	estimated_end	8518452		
CH321-20007 X	1649661	1737661	estimated_end	1649661
	located_end	1737661		
CH321-20010 X	15874782	15962782	located_end	15874782
	estimated_end	15962782		
CH321-20011 3R	24119050	24207050	located_end	24119050
	estimated_end	24207050		
CH321-20012 2L	3358104	3446104	estimated_end	3358104
	located_end	3446104		
CH321-20013 X	19515790	19603790	estimated_end	19515790
	located_end	19603790		
CH321-20015 3L	10203043	10291043	estimated_end	10203043
	located_end	10291043		
CH321-20016 3R	19873875	19961875	located_end	19873875
	estimated_end	19961875		
CH321-20018 4	1087397	1175397	located_end	1087397
	estimated_end	1175397		

CH321-20019 2R	6433116	6521116	located_end	6433116
	estimated_end	6521116		
CH321-20020 X	13151542	13239542	estimated_end	13151542
	located_end	13239542		
CH321-20021 3R	23362084	23450084	located_end	23362084
	estimated_end	23450084		
CH321-20023 2L	8557405	8645405	estimated_end	8557405
	located_end	8645405		
CH321-20024 2L	15224135	15312135	located_end	15224135
	estimated_end	15312135		
CH321-20P01 2R	17746513	17834513	estimated_end	17746513
	located_end	17834513		
CH321-20P02 3L	5598809	5686809	located_end	5598809
	estimated_end	5686809		
CH321-20P03 2RHet	1353338	1441338	located_end	1353338
	estimated_end	1441338		
CH321-20P05 2R	9461266	9549266	located_end	9461266
	estimated_end	9549266		
CH321-20P06 2R	13391140	13479140	estimated_end	13391140
	located_end	13479140		
CH321-20P07 3R	19770358	19858358	estimated_end	19770358
	located_end	19858358		
CH321-20P08 3R	17200906	17288906	estimated_end	17200906
	located_end	17288906		
CH321-20P09 2R	15770264	15858264	located_end	15770264
	estimated_end	15858264		
CH321-20P11 3L	4408102	4496102	estimated_end	4408102
	located_end	4496102		
CH321-20P14 3L	19356576	19444576	located_end	19356576
	estimated_end	19444576		
CH321-20P15 3R	22467968	22555968	located_end	22467968
	estimated_end	22555968		
CH321-20P16 3L	12018944	12106944	located_end	12018944
	estimated_end	12106944		
CH321-20P17 2L	12256453	12344453	estimated_end	12256453
	located_end	12344453		
CH321-20P19 3R	21083243	21171243	estimated_end	21083243
	located_end	21171243		
CH321-20P20 3R	14912910	15000910	located_end	14912910
	estimated_end	15000910		
CH321-20P24 2R	6890921	6978921	estimated_end	6890921
	located_end	6978921		
CH321-21A01 X	14540060	14628060	located_end	14540060
	estimated_end	14628060		
CH321-21A05 2L	21877493	21965493	estimated_end	21877493
	located_end	21965493		
CH321-21A06 3R	14471797	14559797	located_end	14471797
	estimated_end	14559797		
CH321-21A08 2RHet	3267592	3355592	located_end	3267592
	estimated_end	3355592		
CH321-21A09 2RHet	62335	150335	estimated_end	62335
	located_end	150335	located_end	
CH321-21A11 3LHet	2098776	2186776	estimated_end	2098776
	located_end	2186776		

CH321-21A14 2L	22982619	23070619	located_end	22982619
	estimated_end	23070619		
CH321-21A18 ArmU	8438639	8526639	located_end	8438639
	estimated_end	8526639		
CH321-21A22 3L	7957061	8045061	located_end	7957061
	estimated_end	8045061		
CH321-21B01 3L	6708370	6796370	located_end	6708370
	estimated_end	6796370		
CH321-21B16 2L	21397645	21485645	located_end	21397645
	estimated_end	21485645		
CH321-21B22 3L	4512457	4600457	located_end	4512457
	estimated_end	4600457		
CH321-21B24 2R	7627894	7715894	located_end	7627894
	estimated_end	7715894		
CH321-21C04 3R	17852714	17940714	estimated_end	17852714
	located_end	17940714		
CH321-21C07 ArmU	2005100	2093100	estimated_end	2005100
	located_end	2093100		
CH321-21C08 3R	15742608	15830608	estimated_end	15742608
	located_end	15830608		
CH321-21C13 2R	4893235	4981235	estimated_end	4893235
	located_end	4981235		
CH321-21C19 3R	22821917	22909917	estimated_end	22821917
	located_end	22909917		
CH321-21C20 X	8948533	9036533	estimated_end	8948533
	located_end	9036533		
CH321-21D04 3L	19690407	19778407	located_end	19690407
	estimated_end	19778407		
CH321-21D06 3R	14264613	14352613	located_end	14264613
	estimated_end	14352613		
CH321-21E11 2L	16856450	16944450	located_end	16856450
	estimated_end	16944450		
CH321-21E20 2L	4062037	4150037	estimated_end	4062037
	located_end	4150037		
CH321-21E22 3L	23932824	24020824	located_end	23932824
	estimated_end	24020824		
CH321-21F11 2RHet	2263381	2351381	estimated_end	2263381
	located_end	2351381		
CH321-21F12 3R	8716625	8804625	located_end	8716625
	estimated_end	8804625		
CH321-21F13 2RHet	2884396	2972396	located_end	2884396
	estimated_end	2972396		
CH321-21G12 X	15422510	15510510	located_end	15422510
	estimated_end	15510510		
CH321-21G16 3L	18531418	18619418	located_end	18531418
	estimated_end	18619418		
CH321-21G21 2R	8925092	9013092	located_end	8925092
	estimated_end	9013092		
CH321-21G22 2L	4212270	4300270	estimated_end	4212270
	located_end	4300270		
CH321-21G23 3R	5305336	5393336	estimated_end	5305336
	located_end	5393336		
CH321-21H02 2R	19889404	19977404	located_end	19889404
	estimated_end	19977404		

CH321-21H12 3L	18838076	18926076	estimated_end	18838076
	located_end	18926076		
CH321-21H13 3L	296882	384882	located_end	296882
	estimated_end	384882		
CH321-21H16 2R	8535733	8623733	estimated_end	8535733
	located_end	8623733		
CH321-21H18 3R	22664976	22752976	estimated_end	22664976
	located_end	22752976		
CH321-21I07 X	7681873	7769873	estimated_end	7681873
	located_end	7769873		
CH321-21I11 3R	6829986	6917986	estimated_end	6829986
	located_end	6917986		
CH321-21I15 2R	601835	689835	estimated_end	601835
	located_end	689835		
CH321-21I22 3R	2942004	3030004	located_end	2942004
	estimated_end	3030004		
CH321-21J02 3R	3366013	3454013	located_end	3366013
	estimated_end	3454013		
CH321-21J05 3L	18406385	18494385	estimated_end	18406385
	located_end	18494385		
CH321-21J06 X	16437025	16525025	located_end	16437025
	estimated_end	16525025		
CH321-21J09 2R	13029149	13117149	estimated_end	13029149
	located_end	13117149		
CH321-21J10 2RHet	58551 146551		located_end	58551
			estimated_end	146551
CH321-21J11 3L	23064442	23152442	located_end	23064442
	estimated_end	23152442		
CH321-21J12 2R	13723496	13811496	estimated_end	13723496
	located_end	13811496		
CH321-21J18 2R	18184170	18272170	located_end	18184170
	estimated_end	18272170		
CH321-21J24 3L	2681707	2769707	estimated_end	2681707
	located_end	2769707		
CH321-21K04 X	21805960	21893960	located_end	21805960
	estimated_end	21893960		
CH321-21K08 X	7402083	7490083	estimated_end	7402083
	located_end	7490083		
CH321-21K09 3R	5902818	5990818	located_end	5902818
	estimated_end	5990818		
CH321-21K11 X	2517147	2605147	estimated_end	2517147
	located_end	2605147		
CH321-21L06 2RHet	3237399	3325399	located_end	3237399
	estimated_end	3325399		
CH321-21L10 3R	20735672	20823672	estimated_end	20735672
	located_end	20823672		
CH321-21L12 2R	20977075	21065075	located_end	20977075
	estimated_end	21065075		
CH321-21L16 3R	16067174	16155174	located_end	16067174
	estimated_end	16155174		
CH321-21L20 2R	16987239	17075239	estimated_end	16987239
	located_end	17075239		
CH321-21L21 2L	14451963	14539963	located_end	14451963
	estimated_end	14539963		

CH321-21L23 2R	8409694	8497694	estimated_end	8409694
	located_end	8497694		
CH321-21L24 X	5779006	5867006	located_end	5779006
	estimated_end	5867006		
CH321-21M02 2R	11651436	11739436	located_end	11651436
	estimated_end	11739436		
CH321-21M05 2L	5796746	5884746	estimated_end	5796746
	located_end	5884746		
CH321-21M10 3R	22363649	22451649	located_end	22363649
	estimated_end	22451649		
CH321-21M16 2R	8061813	8149813	estimated_end	8061813
	located_end	8149813		
CH321-21M17 3L	1227875	1315875	estimated_end	1227875
	located_end	1315875		
CH321-21M18 2L	16284958	16372958	estimated_end	16284958
	located_end	16372958		
CH321-21N04 2L	12889843	12977843	estimated_end	12889843
	located_end	12977843		
CH321-21N06 2L	21219353	21307353	estimated_end	21219353
	located_end	21307353		
CH321-21N07 2L	14629668	14717668	located_end	14629668
	estimated_end	14717668		
CH321-21N10 3R	8107685	8195685	located_end	8107685
	estimated_end	8195685		
CH321-21N17 2L	4242488	4330488	located_end	4242488
	estimated_end	4330488		
CH321-21N20 2R	16342247	16430247	located_end	16342247
	estimated_end	16430247		
CH321-21O03 2R	18098849	18186849	estimated_end	18098849
	located_end	18186849		
CH321-21O07 3R	13721863	13809863	located_end	13721863
	estimated_end	13809863		
CH321-21O08 3R	1344897	1432897	located_end	1344897
	estimated_end	1432897		
CH321-21O09 3RHet	2107716	2195716	located_end	2107716
	estimated_end	2195716		
CH321-21O12 2R	7417966	7505966	estimated_end	7417966
	located_end	7505966		
CH321-21O16 3L	5121951	5209951	estimated_end	5121951
	located_end	5209951		
CH321-21O17 X	17532139	17620139	estimated_end	17532139
	located_end	17620139		
CH321-21O20 3R	26883387	26971387	estimated_end	26883387
	located_end	26971387		
CH321-21P01 3R	17717139	17805139	located_end	17717139
	estimated_end	17805139		
CH321-21P05 2L	10747975	10835975	located_end	10747975
	estimated_end	10835975		
CH321-21P11 X	9152135	9240135	located_end	9152135
	estimated_end	9240135		
CH321-21P14 3R	2565934	2653934	estimated_end	2565934
	located_end	2653934		
CH321-21P15 3R	20897572	20985572	located_end	20897572
	estimated_end	20985572		

CH321-21P16 X	13738151	13826151	located_end	13738151
	estimated_end	13826151		
CH321-21P17 X	12104552	12192552	estimated_end	12104552
	located_end	12192552		
CH321-21P20 3L	21825820	21913820	estimated_end	21825820
	located_end	21913820		
CH321-21P23 3R	18297283	18385283	located_end	18297283
	estimated_end	18385283		
CH321-21P24 3L	2771122	2859122	located_end	2771122
	estimated_end	2859122		
CH321-22A01 3L	8463571	8551571	located_end	8463571
	estimated_end	8551571		
CH321-22A07 2L	17041453	17129453	located_end	17041453
	estimated_end	17129453		
CH321-22A13 2R	16031364	16119364	located_end	16031364
	estimated_end	16119364		
CH321-22A15 X	3145685	3233685	located_end	3145685
	estimated_end	3233685		
CH321-22A17 3R	6437609	6525609	estimated_end	6437609
	located_end	6525609		
CH321-22B04 ArmU	1619982	1707982	located_end	1619982
	estimated_end	1707982		
CH321-22B24 3LHet	2340439	2428439	estimated_end	2340439
	located_end	2428439		
CH321-22C07 2L	5623174	5711174	located_end	5623174
	estimated_end	5711174		
CH321-22C12 3R	12604817	12692817	estimated_end	12604817
	located_end	12692817		
CH321-22C24 ArmU	2418387	2506387	located_end	2418387
	estimated_end	2506387		
CH321-22D03 2L	9000553	9088553	estimated_end	9000553
	located_end	9088553		
CH321-22D09 2L	19573108	19661108	located_end	19573108
	estimated_end	19661108		
CH321-22D14 2L	22143242	22231242	located_end	22143242
	estimated_end	22231242		
CH321-22D17 3R	26328903	26416903	located_end	26328903
	estimated_end	26416903		
CH321-22E03 3R	5873745	5961745	estimated_end	5873745
	located_end	5961745		
CH321-22E05 2R	3513569	3601569	estimated_end	3513569
	located_end	3601569		
CH321-22E11 X	16231058	16319058	located_end	16231058
	estimated_end	16319058		
CH321-22G13 2L	21700105	21788105	estimated_end	21700105
	located_end	21788105		
CH321-22G23 3L	6810442	6898442	estimated_end	6810442
	located_end	6898442		
CH321-22G24 2L	9078972	9166972	estimated_end	9078972
	located_end	9166972		
CH321-22H16 3L	14433033	14521033	located_end	14433033
	estimated_end	14521033		
CH321-22H24 2L	2657758	2745758	located_end	2657758
	estimated_end	2745758		

CH321-22I10 3R	5857791	5945791	estimated_end	5857791
	located_end	5945791		
CH321-22I14 X	13340963	13428963	estimated_end	13340963
	located_end	13428963		
CH321-22I17 3L	20815810	20903810	estimated_end	20815810
	located_end	20903810		
CH321-22I19 3R	27855966	27943966	located_end	27855966
	estimated_end	27943966		
CH321-22J08 3L	22898053	22986053	located_end	22898053
	estimated_end	22986053		
CH321-22J19 X	1766173	1854173	located_end	1766173
	estimated_end	1854173		
CH321-22K06 ArmU	4107247	4195247	estimated_end	4107247
	located_end	4195247		
CH321-22K10 3RHet	1906926	1994926	located_end	1906926
	estimated_end	1994926		
CH321-22K20 3LHet	1702549	1790549	estimated_end	1702549
	located_end	1790549		
CH321-22K22 3L	13814447	13902447	estimated_end	13814447
	located_end	13902447		
CH321-22L20 3L	13993926	14081926	located_end	13993926
	estimated_end	14081926		
CH321-22L22 ArmU	293267	381267	located_end	293267
	estimated_end	381267		
CH321-22M01 3R	9375996	9463996	estimated_end	9375996
	located_end	9463996		
CH321-22M04 2R	21051886	21139886	estimated_end	21051886
	located_end	21139886		
CH321-22M23 2L	5024016	5112016	located_end	5024016
	estimated_end	5112016		
CH321-22N01 3R	17092001	17180001	estimated_end	17092001
	located_end	17180001		
CH321-22N08 3R	6541249	6629249	located_end	6541249
	estimated_end	6629249		
CH321-22N14 4	1035750	1123750	located_end	1035750
	estimated_end	1123750		
CH321-22N20 3L	17250312	17338312	estimated_end	17250312
	located_end	17338312		
CH321-22N22 3R	21463674	21551674	located_end	21463674
	estimated_end	21551674		
CH321-22N24 2L	3767658	3855658	located_end	3767658
	estimated_end	3855658		
CH321-22O01 X	15890914	15978914	estimated_end	15890914
	located_end	15978914		
CH321-22O07 3L	8349540	8437540	estimated_end	8349540
	located_end	8437540		
CH321-22O13 2R	2653117	2741117	located_end	2653117
	estimated_end	2741117		
CH321-22O20 2R	2499641	2587641	estimated_end	2499641
	located_end	2587641		
CH321-22P01 3L	3158854	3246854	estimated_end	3158854
	located_end	3246854		
CH321-22P03 2L	9348646	9436646	estimated_end	9348646
	located_end	9436646		

CH321-22P13 3R	16052997	16140997	estimated_end	16052997
	located_end	16140997		
CH321-22P18 3L	11000261	11088261	estimated_end	11000261
	located_end	11088261		
CH321-22P19 X	6008409	6096409	located_end	6008409
	estimated_end	6096409		
CH321-22P20 2R	16546402	16634402	located_end	16546402
	estimated_end	16634402		
CH321-23A07 3L	20895124	20983124	estimated_end	20895124
	located_end	20983124		
CH321-23B04 3L	21833841	21921841	estimated_end	21833841
	located_end	21921841		
CH321-23B13 X	3496456	3584456	estimated_end	3496456
	located_end	3584456		
CH321-23B20 2L	19615225	19703225	located_end	19615225
	estimated_end	19703225		
CH321-23C01 2L	20310891	20398891	estimated_end	20310891
	located_end	20398891		
CH321-23C11 3R	20489356	20577356	estimated_end	20489356
	located_end	20577356		
CH321-23C18 2L	21056435	21144435	located_end	21056435
	estimated_end	21144435		
CH321-23D15 3L	7762013	7850013	located_end	7762013
	estimated_end	7850013		
CH321-23E03 X	8422076	8510076	estimated_end	8422076
	located_end	8510076		
CH321-23E04 2L	21388780	21476780	located_end	21388780
	estimated_end	21476780		
CH321-23E05 X	11350715	11438715	located_end	11350715
	estimated_end	11438715		
CH321-23E21 X	2602233	2690233	estimated_end	2602233
	located_end	2690233		
CH321-23F06 3R	8371866	8459866	estimated_end	8371866
	located_end	8459866		
CH321-23F20 2L	1063567	1151567	located_end	1063567
	estimated_end	1151567		
CH321-23G10 2L	21592248	21680248	located_end	21592248
	estimated_end	21680248		
CH321-23G13 2R	9119937	9207937	located_end	9119937
	estimated_end	9207937		
CH321-23G15 3LHet	1672047	1760047	estimated_end	1672047
	located_end	1760047		
CH321-23G24 3R	1699129	1787129	estimated_end	1699129
	located_end	1787129		
CH321-23H13 3LHet	418157	506157	located_end	418157
	estimated_end	506157		
CH321-23H16 3L	18571450	18659450	located_end	18571450
	estimated_end	18659450		
CH321-23H17 3R	6112129	6200129	estimated_end	6112129
	located_end	6200129		
CH321-23H23 3L	12776253	12864253	estimated_end	12776253
	located_end	12864253		
CH321-23H24 X	20699894	20787894	estimated_end	20699894
	located_end	20787894		

CH321-23I01 2R	14034680	14122680	estimated_end	14034680
	located_end	14122680		
CH321-23I08 4	805274	893274	located_end	805274
	estimated_end	893274		
CH321-23I18 3R	23537333	23625333	estimated_end	23537333
	located_end	23625333		
CH321-23I21 3R	5000614	5088614	estimated_end	5000614
	located_end	5088614		
CH321-23J01 2L	17697381	17785381	located_end	17697381
	estimated_end	17785381		
CH321-23J04 3L	5227071	5315071	estimated_end	5227071
	located_end	5315071		
CH321-23J08 3R	26878248	26966248	located_end	26878248
	estimated_end	26966248		
CH321-23J09 3R	8994963	9082963	located_end	8994963
	estimated_end	9082963		
CH321-23J18 3L	5243874	5331874	located_end	5243874
	estimated_end	5331874		
CH321-23J23 3R	16982204	17070204	estimated_end	16982204
	located_end	17070204		
CH321-23K01 2R	15517055	15605055	located_end	15517055
	estimated_end	15605055		
CH321-23K03 3L	14320485	14408485	estimated_end	14320485
	located_end	14408485		
CH321-23K04 2L	4798507	4886507	estimated_end	4798507
	located_end	4886507		
CH321-23K06 3L	11398337	11486337	located_end	11398337
	estimated_end	11486337		
CH321-23K14 3R	5297133	5385133	located_end	5297133
	estimated_end	5385133		
CH321-23K16 X	10131069	10219069	located_end	10131069
	estimated_end	10219069		
CH321-23K17 X	4033978	4121978	estimated_end	4033978
	located_end	4121978		
CH321-23L01 3L	5584591	5672591	located_end	5584591
	estimated_end	5672591		
CH321-23L05 3R	19364471	19452471	located_end	19364471
	estimated_end	19452471		
CH321-23L08 2L	15010600	15098600	estimated_end	15010600
	located_end	15098600		
CH321-23L14 2R	6782092	6870092	located_end	6782092
	estimated_end	6870092		
CH321-23L16 X	4253994	4341994	estimated_end	4253994
	located_end	4341994		
CH321-23L23 2R	9966450	10054450	located_end	9966450
	estimated_end	10054450		
CH321-23M24 2L	6017018	6105018	located_end	6017018
	estimated_end	6105018		
CH321-23N02 3R	17216579	17304579	located_end	17216579
	estimated_end	17304579		
CH321-23N08 3L	19161406	19249406	estimated_end	19161406
	located_end	19249406		
CH321-23N24 X	19699288	19787288	estimated_end	19699288
	located_end	19787288		

CH321-23O01 2R	2865455	2953455	located_end 2865455
estimated_end	2953455		
CH321-23O02 3L	14843322	14931322	located_end 14843322
estimated_end	14931322		
CH321-23O10 X	19857650	19945650	estimated_end 19857650
located_end	19945650		
CH321-23O19 2R	7903961	7991961	located_end 7903961
estimated_end	7991961		
CH321-23P01 2L	9089020	9177020	located_end 9089020
estimated_end	9177020		
CH321-23P03 3R	20082998	20170998	located_end 20082998
estimated_end	20170998		
CH321-23P05 2L	15416567	15504567	located_end 15416567
estimated_end	15504567		
CH321-23P07 3L	7406748	7494748	located_end 7406748
estimated_end	7494748		
CH321-23P09 3L	17884151	17972151	estimated_end 17884151
located_end	17972151		
CH321-23P18 3L	23080171	23168171	located_end 23080171
estimated_end	23168171		
CH321-23P23 3R	13516507	13604507	estimated_end 13516507
located_end	13604507		
CH321-23P24 3R	22607853	22695853	estimated_end 22607853
located_end	22695853		
CH321-24A03 3R	7789274	7877274	located_end 7789274
estimated_end	7877274		
CH321-24A08 2L	22265070	22353070	estimated_end 22265070
located_end	22353070		
CH321-24A17 3R	9803949	9891949	estimated_end 9803949
located_end	9891949		
CH321-24B01 X	12695552	12783552	estimated_end 12695552
located_end	12783552		
CH321-24C09 2L	10482437	10570437	located_end 10482437
estimated_end	10570437		
CH321-24D05 2L	3711038	3799038	estimated_end 3711038
located_end	3799038		
CH321-24E02 3R	27817860	27905860	located_end 27817860
estimated_end	27905860		
CH321-24E14 3L	16125323	16213323	located_end 16125323
estimated_end	16213323		
CH321-24E17 ArmU	9708223	9796223	estimated_end 9708223
located_end	9796223		
CH321-24F03 3L	11604683	11692683	estimated_end 11604683
located_end	11692683		
CH321-24F06 2L	22910307	22998307	located_end 22910307
estimated_end	22998307		
CH321-24F16 2L	21293247	21381247	located_end 21293247
estimated_end	21381247		
CH321-24G05 3R	16509057	16597057	estimated_end 16509057
located_end	16597057		
CH321-24G13 X	14498747	14586747	located_end 14498747
estimated_end	14586747		
CH321-24G19 X	7721109	7809109	estimated_end 7721109
located_end	7809109		

CH321-24H01 ArmU	9953267	10041267	located_end	9953267
	estimated_end	10041267		
CH321-24H02 3L	11550758	11638758	estimated_end	11550758
	located_end	11638758		
CH321-24H08 3LHet	2037458	2125458	located_end	2037458
	estimated_end	2125458		
CH321-24H17 2R	19662739	19750739	located_end	19662739
	estimated_end	19750739		
CH321-24I02 3R	2350615	2438615	estimated_end	2350615
	located_end	2438615		
CH321-24I18 2R	13071897	13159897	located_end	13071897
	estimated_end	13159897		
CH321-24J01 2L	9857429	9945429	estimated_end	9857429
	located_end	9945429		
CH321-24J02 3L	17547005	17635005	located_end	17547005
	estimated_end	17635005		
CH321-24J10 3L	23899430	23987430	located_end	23899430
	estimated_end	23987430		
CH321-24J17 3LHet	1408474	1496474	located_end	1408474
	estimated_end	1496474		
CH321-24K04 3L	13559294	13647294	located_end	13559294
	estimated_end	13647294		
CH321-24K06 3LHet	2446938	2534938	located_end	2446938
	estimated_end	2534938		
CH321-24K23 3L	23152368	23240368	estimated_end	23152368
	located_end	23240368		
CH321-24L01 2R	9044006	9132006	located_end	9044006
	estimated_end	9132006		
CH321-24L03 2L	9112759	9200759	estimated_end	9112759
	located_end	9200759		
CH321-24L05 X	21010358	21098358	estimated_end	21010358
	located_end	21098358		
CH321-24L06 2L	8548586	8636586	located_end	8548586
	estimated_end	8636586		
CH321-24L14 ArmU	8708072	8796072	located_end	8708072
	estimated_end	8796072		
CH321-24L15 3L	23253451	23341451	estimated_end	23253451
	located_end	23341451		
CH321-24L22 2R	1490664	1578664	estimated_end	1490664
	located_end	1578664		
CH321-24M01 2L	22816256	22904256	located_end	22816256
	estimated_end	22904256		
CH321-24M02 3R	27099322	27187322	located_end	27099322
	estimated_end	27187322		
CH321-24M03 3R	21960324	22048324	estimated_end	21960324
	located_end	22048324		
CH321-24M05 2L	1289781	1377781	estimated_end	1289781
	located_end	1377781		
CH321-24M08 3L	82307	170307	located_end	82307
	170307		estimated_end	
CH321-24N03 3R	15472027	15560027	located_end	15472027
	estimated_end	15560027		
CH321-24N05 2L	6137461	6225461	located_end	6137461
	estimated_end	6225461		

CH321-24N10 3R	8837901	8925901	estimated_end	8837901
	located_end	8925901		
CH321-24N11 X	6364174	6452174	estimated_end	6364174
	located_end	6452174		
CH321-24N12 3L	7397919	7485919	estimated_end	7397919
	located_end	7485919		
CH321-24N19 2RHet	404530	492530	estimated_end	404530
	located_end	492530		
CH321-24N22 2L	10329555	10417555	estimated_end	10329555
	located_end	10417555		
CH321-24N23 2R	2985608	3073608	estimated_end	2985608
	located_end	3073608		
CH321-24O01 3L	14781093	14869093	estimated_end	14781093
	located_end	14869093		
CH321-24O02 2R	13320519	13408519	estimated_end	13320519
	located_end	13408519		
CH321-24O04 3L	16330597	16418597	estimated_end	16330597
	located_end	16418597		
CH321-24O07 X	9269116	9357116	estimated_end	9269116
	located_end	9357116		
CH321-24O13 ArmU	5769916	5857916	located_end	5769916
	estimated_end	5857916		
CH321-24O20 X	2366799	2454799	located_end	2366799
	estimated_end	2454799		
CH321-24P01 3R	25344389	25432389	estimated_end	25344389
	located_end	25432389		
CH321-24P02 3R	17766252	17854252	located_end	17766252
	estimated_end	17854252		
CH321-24P04 3L	18568941	18656941	located_end	18568941
	estimated_end	18656941		
CH321-24P08 3L	7995505	8083505	estimated_end	7995505
	located_end	8083505		
CH321-24P11 2L	8032163	8120163	located_end	8032163
	estimated_end	8120163		
CH321-24P12 2R	11395388	11483388	located_end	11395388
	estimated_end	11483388		
CH321-24P17 2R	10603175	10691175	located_end	10603175
	estimated_end	10691175		
CH321-24P18 X	12812471	12900471	located_end	12812471
	estimated_end	12900471		
CH321-24P22 3L	22407089	22495089	estimated_end	22407089
	located_end	22495089		
CH321-24P24 2R	16894832	16982832	estimated_end	16894832
	located_end	16982832		
CH321-25A02 X	13390122	13478122	located_end	13390122
	estimated_end	13478122		
CH321-25A24 2L	12468808	12556808	estimated_end	12468808
	located_end	12556808		
CH321-25C02 3R	27708331	27796331	estimated_end	27708331
	located_end	27796331		
CH321-25C04 2R	13136317	13224317	estimated_end	13136317
	located_end	13224317		
CH321-25C06 X	11418507	11506507	located_end	11418507
	estimated_end	11506507		

CH321-25C17 3R	3173468	3261468	located_end	3173468
	estimated_end	3261468		
CH321-25C21 3LHet	2250403	2338403	located_end	2250403
	estimated_end	2338403		
CH321-25D01 3L	11633733	11721733	located_end	11633733
	estimated_end	11721733		
CH321-25D08 3R	1119094	1207094	estimated_end	1119094
	located_end	1207094		
CH321-25D18 X	15867846	15955846	estimated_end	15867846
	located_end	15955846		
CH321-25E05 X	7708548	7796548	estimated_end	7708548
	located_end	7796548		
CH321-25E09 X	3949136	4037136	estimated_end	3949136
	located_end	4037136		
CH321-25E20 3L	2658032	2746032	estimated_end	2658032
	located_end	2746032		
CH321-25F01 3L	24413144	24501144	estimated_end	24413144
	located_end	24501144		
CH321-25F13 3R	15440774	15528774	located_end	15440774
	estimated_end	15528774		
CH321-25F17 2R	2774021	2862021	estimated_end	2774021
	located_end	2862021		
CH321-25F19 3L	6643735	6731735	located_end	6643735
	estimated_end	6731735		
CH321-25F24 X	11676273	11764273	located_end	11676273
	estimated_end	11764273		
CH321-25G01 2R	15868246	15956246	located_end	15868246
	estimated_end	15956246		
CH321-25G12 X	11460996	11548996	estimated_end	11460996
	located_end	11548996		
CH321-25G17 3LHet	2143795	2231795	estimated_end	2143795
	located_end	2231795		
CH321-25H13 2L	2251698	2339698	located_end	2251698
	estimated_end	2339698		
CH321-25H15 3R	3436758	3524758	located_end	3436758
	estimated_end	3524758		
CH321-25I01 X	14436772	14524772	estimated_end	14436772
	located_end	14524772		
CH321-25J01 3R	22067918	22155918	located_end	22067918
	estimated_end	22155918		
CH321-25J23 2R	2066107	2154107	located_end	2066107
	estimated_end	2154107		
CH321-25K01 2R	9008433	9096433	estimated_end	9008433
	located_end	9096433		
CH321-25K04 ArmU	4242152	4330152	estimated_end	4242152
	located_end	4330152		
CH321-25K07 3L	8123231	8211231	estimated_end	8123231
	located_end	8211231		
CH321-25K20 X	21661039	21749039	located_end	21661039
	estimated_end	21749039		
CH321-25L01 2L	15540390	15628390	estimated_end	15540390
	located_end	15628390		
CH321-25L08 2L	16909133	16997133	estimated_end	16909133
	located_end	16997133		

CH321-25L15 ArmU	4182687	4270687	located_end	4182687
	estimated_end	4270687		
CH321-25L18 XHet	108600	196600	estimated_end	108600
	located_end	196600		
CH321-25M03 2L	21694323	21782323	estimated_end	21694323
	located_end	21782323		
CH321-25M20 3L	16182395	16270395	located_end	16182395
	estimated_end	16270395		
CH321-25N03 2R	7159592	7247592	located_end	7159592
	estimated_end	7247592		
CH321-25N14 2R	15130324	15218324	estimated_end	15130324
	located_end	15218324		
CH321-25N16 3RHet	1954610	2042610	estimated_end	1954610
	located_end	2042610		
CH321-25O01 3R	1513996	1601996	estimated_end	1513996
	located_end	1601996		
CH321-25O02 2R	7182839	7270839	located_end	7182839
	estimated_end	7270839		
CH321-25P06 2L	9623435	9711435	located_end	9623435
	estimated_end	9711435		
CH321-25P09 X	10403550	10491550	located_end	10403550
	estimated_end	10491550		
CH321-25P11 3R	9783280	9871280	located_end	9783280
	estimated_end	9871280		
CH321-26A05 2RHet	319554	407554	located_end	319554
	estimated_end	407554		
CH321-26A09 2R	5282372	5370372	located_end	5282372
	estimated_end	5370372		
CH321-26B04 3R	27010248	27098248	located_end	27010248
	estimated_end	27098248		
CH321-26B08 X	17619098	17707098	estimated_end	17619098
	located_end	17707098		
CH321-26B18 2R	17016526	17104526	located_end	17016526
	estimated_end	17104526		
CH321-26C10 3R	17099047	17187047	estimated_end	17099047
	located_end	17187047		
CH321-26C14 2R	10535725	10623725	estimated_end	10535725
	located_end	10623725		
CH321-26C15 3R	27464849	27552849	estimated_end	27464849
	located_end	27552849		
CH321-26C18 3L	17467318	17555318	estimated_end	17467318
	located_end	17555318		
CH321-26C20 ArmU	3403088	3491088	located_end	3403088
	estimated_end	3491088		
CH321-26D02 ArmU	3889080	3977080	located_end	3889080
	estimated_end	3977080		
CH321-26D07 X	2599240	2687240	estimated_end	2599240
	located_end	2687240		
CH321-26D10 ArmU	6456435	6544435	located_end	6456435
	estimated_end	6544435		
CH321-26D11 3R	15464131	15552131	estimated_end	15464131
	located_end	15552131		
CH321-26D13 3L	22372222	22460222	estimated_end	22372222
	located_end	22460222		

CH321-26D20 3R	26995772	27083772	located_end	26995772
	estimated_end	27083772		
CH321-26E03 3R	20542061	20630061	estimated_end	20542061
	located_end	20630061		
CH321-26E09 2R	18745055	18833055	estimated_end	18745055
	located_end	18833055		
CH321-26E10 2L	20466007	20554007	located_end	20466007
	estimated_end	20554007		
CH321-26E11 3L	444939	532939	estimated_end	444939
	located_end	532939		
CH321-26E17 2L	6984197	7072197	located_end	6984197
	estimated_end	7072197		
CH321-26E18 3L	6609908	6697908	estimated_end	6609908
	located_end	6697908		
CH321-26E20 3L	904672	992672	located_end	904672
	estimated_end	992672		
CH321-26E21 3L	6305050	6393050	located_end	6305050
	estimated_end	6393050		
CH321-26E24 3R	21183878	21271878	located_end	21183878
	estimated_end	21271878		
CH321-26F04 2L	18901912	18989912	located_end	18901912
	estimated_end	18989912		
CH321-26F05 3L	19049997	19137997	estimated_end	19049997
	located_end	19137997		
CH321-26F08 2R	12260813	12348813	estimated_end	12260813
	located_end	12348813		
CH321-26F09 3R	16322410	16410410	located_end	16322410
	estimated_end	16410410		
CH321-26F10 2L	3376886	3464886	estimated_end	3376886
	located_end	3464886		
CH321-26F12 3L	3354088	3442088	estimated_end	3354088
	located_end	3442088		
CH321-26F14 X	12383180	12471180	located_end	12383180
	estimated_end	12471180		
CH321-26F17 X	9989152	10077152	estimated_end	9989152
	located_end	10077152		
CH321-26F18 3R	14765767	14853767	estimated_end	14765767
	located_end	14853767		
CH321-26F19 3R	9132723	9220723	located_end	9132723
	estimated_end	9220723		
CH321-26F22 2R	7915971	8003971	estimated_end	7915971
	located_end	8003971		
CH321-26G01 X	4688975	4776975	estimated_end	4688975
	located_end	4776975		
CH321-26G04 2R	18497019	18585019	estimated_end	18497019
	located_end	18585019		
CH321-26G06 2L	14653734	14741734	located_end	14653734
	estimated_end	14741734		
CH321-26G10 2R	9619926	9707926	estimated_end	9619926
	located_end	9707926		
CH321-26G15 2L	13533902	13621902	estimated_end	13533902
	located_end	13621902		
CH321-26G17 3R	4885184	4973184	located_end	4885184
	estimated_end	4973184		

CH321-26G18 2R	5596153	5684153	located_end	5596153
	estimated_end	5684153		
CH321-26G19 3R	17495021	17583021	located_end	17495021
	estimated_end	17583021		
CH321-26G20 2L	12564613	12652613	estimated_end	12564613
	located_end	12652613		
CH321-26G23 2R	3841528	3929528	located_end	3841528
	estimated_end	3929528		
CH321-26H04 X	13962442	14050442	located_end	13962442
	estimated_end	14050442		
CH321-26H07 2R	5650017	5738017	estimated_end	5650017
	located_end	5738017		
CH321-26H15 3L	12763250	12851250	located_end	12763250
	estimated_end	12851250		
CH321-26H16 3L	11690543	11778543	located_end	11690543
	estimated_end	11778543		
CH321-26H17 3R	19586424	19674424	estimated_end	19586424
	located_end	19674424		
CH321-26H18 2R	18228729	18316729	estimated_end	18228729
	located_end	18316729		
CH321-26H20 2L	14013777	14101777	estimated_end	14013777
	located_end	14101777		
CH321-26H22 3R	19825243	19913243	estimated_end	19825243
	located_end	19913243		
CH321-26H23 3L	12248837	12336837	located_end	12248837
	estimated_end	12336837		
CH321-26I04 ArmU	9708440	9796440	estimated_end	9708440
	located_end	9796440		
CH321-26I05 3R	11316921	11404921	located_end	11316921
	estimated_end	11404921		
CH321-26I06 3R	12109402	12197402	located_end	12109402
	estimated_end	12197402		
CH321-26I09 3R	15898815	15986815	located_end	15898815
	estimated_end	15986815		
CH321-26I15 2R	15064704	15152704	estimated_end	15064704
	located_end	15152704		
CH321-26I18 2L	6767717	6855717	estimated_end	6767717
	located_end	6855717		
CH321-26I22 2R	7952458	8040458	located_end	7952458
	estimated_end	8040458		
CH321-26J07 2R	13279861	13367861	estimated_end	13279861
	located_end	13367861		
CH321-26J08 2R	8179872	8267872	estimated_end	8179872
	located_end	8267872		
CH321-26J10 3R	16902766	16990766	estimated_end	16902766
	located_end	16990766		
CH321-26J13 X	2598487	2686487	estimated_end	2598487
	located_end	2686487		
CH321-26J15 3L	15907623	15995623	located_end	15907623
	estimated_end	15995623		
CH321-26J17 3RHet	960732	1048732	estimated_end	960732
	located_end	1048732		
CH321-26J18 3R	19406496	19494496	estimated_end	19406496
	located_end	19494496		

CH321-26J20 3R	5233057	5321057	located_end	5233057
	estimated_end	5321057		
CH321-26K02 2L	22652305	22740305	located_end	22652305
	estimated_end	22740305		
CH321-26K04 3LHet	740971	828971	located_end	740971
	estimated_end	828971		
CH321-26K08 X	4847046	4935046	estimated_end	4847046
	located_end	4935046		
CH321-26K10 2R	9543777	9631777	estimated_end	9543777
	located_end	9631777		
CH321-26K11 2RHet	2965913	3053913	estimated_end	2965913
	located_end	3053913		
CH321-26K16 3R	17000494	17088494	located_end	17000494
	estimated_end	17088494		
CH321-26K17 X	8854540	8942540	located_end	8854540
	estimated_end	8942540		
CH321-26K18 3LHet	1614965	1702965	estimated_end	1614965
	located_end	1702965		
CH321-26K21 X	2860588	2948588	located_end	2860588
	estimated_end	2948588		
CH321-26K22 2R	9556011	9644011	estimated_end	9556011
	located_end	9644011		
CH321-26L15 3L	5058037	5146037	located_end	5058037
	estimated_end	5146037		
CH321-26L18 ArmU	2415099	2503099	located_end	2415099
	estimated_end	2503099		
CH321-26L19 3R	9931173	10019173	located_end	9931173
	estimated_end	10019173		
CH321-26L22 2L	18523953	18611953	estimated_end	18523953
	located_end	18611953		
CH321-26M02 3L	6758674	6846674	estimated_end	6758674
	located_end	6846674		
CH321-26M03 3R	19792520	19880520	located_end	19792520
	estimated_end	19880520		
CH321-26M05 3L	4198828	4286828	located_end	4198828
	estimated_end	4286828		
CH321-26M06 2R	3802342	3890342	located_end	3802342
	estimated_end	3890342		
CH321-26M09 3R	2754923	2842923	located_end	2754923
	estimated_end	2842923		
CH321-26M11 3R	23039123	23127123	located_end	23039123
	estimated_end	23127123		
CH321-26M13 3R	1121296	1209296	located_end	1121296
	estimated_end	1209296		
CH321-26M14 2R	1404139	1492139	located_end	1404139
	estimated_end	1492139		
CH321-26M16 2L	7107653	7195653	estimated_end	7107653
	located_end	7195653		
CH321-26M18 3R	20851625	20939625	estimated_end	20851625
	located_end	20939625		
CH321-26M19 3R	20851625	20939625	estimated_end	20851625
	located_end	20939625		
CH321-26M20 3L	14146437	14234437	estimated_end	14146437
	located_end	14234437		

CH321-26M23 3L	4503361	4591361	estimated_end	4503361
	located_end	4591361		
CH321-26M24 2R	20551615	20639615	estimated_end	20551615
	located_end	20639615		
CH321-26N13 3R	20002946	20090946	located_end	20002946
	estimated_end	20090946		
CH321-26N18 2L	10777445	10865445	located_end	10777445
	estimated_end	10865445		
CH321-26N19 X	21098818	21186818	estimated_end	21098818
	located_end	21186818		
CH321-26N23 3L	11822569	11910569	located_end	11822569
	estimated_end	11910569		
CH321-26O05 2L	19153136	19241136	estimated_end	19153136
	located_end	19241136		
CH321-26O06 X	8281176	8369176	estimated_end	8281176
	located_end	8369176		
CH321-26O14 3R	3638132	3726132	located_end	3638132
	estimated_end	3726132		
CH321-26O19 2L	3634864	3722864	estimated_end	3634864
	located_end	3722864		
CH321-26O22 3R	15873697	15961697	located_end	15873697
	estimated_end	15961697		
CH321-26P05 3L	3798917	3886917	estimated_end	3798917
	located_end	3886917		
CH321-26P10 3L	9104889	9192889	estimated_end	9104889
	located_end	9192889		
CH321-26P11 3R	8964637	9052637	estimated_end	8964637
	located_end	9052637		
CH321-26P24 2L	22126535	22214535	located_end	22126535
	estimated_end	22214535		
CH321-27A01 3L	11371526	11459526	located_end	11371526
	estimated_end	11459526		
CH321-27A03 2R	19661854	19749854	estimated_end	19661854
	located_end	19749854		
CH321-27A04 3L	18824057	18912057	estimated_end	18824057
	located_end	18912057		
CH321-27A05 2L	17572181	17660181	located_end	17572181
	estimated_end	17660181		
CH321-27A07 X	8887165	8975165	located_end	8887165
	estimated_end	8975165		
CH321-27A09 2L	13991737	14079737	estimated_end	13991737
	located_end	14079737		
CH321-27A10 2R	7597398	7685398	estimated_end	7597398
	located_end	7685398		
CH321-27A11 2L	17651540	17739540	estimated_end	17651540
	located_end	17739540		
CH321-27A12 2R	13689226	13777226	estimated_end	13689226
	located_end	13777226		
CH321-27A14 3R	3519273	3607273	estimated_end	3519273
	located_end	3607273		
CH321-27A15 3L	16116995	16204995	estimated_end	16116995
	located_end	16204995		
CH321-27A16 X	15290579	15378579	located_end	15290579
	estimated_end	15378579		

CH321-27A17 3L	19436871	19524871	located_end	19436871
	estimated_end	19524871		
CH321-27A18 2L	4589014	4677014	estimated_end	4589014
	located_end	4677014		
CH321-27A19 3L	3200108	3288108	located_end	3200108
	estimated_end	3288108		
CH321-27A21 2L	19917249	20005249	estimated_end	19917249
	located_end	20005249		
CH321-27A22 3R	13422447	13510447	estimated_end	13422447
	located_end	13510447		
CH321-27A24 3L	4803311	4891311	estimated_end	4803311
	located_end	4891311		
CH321-27B04 2R	3938090	4026090	located_end	3938090
	estimated_end	4026090		
CH321-27B05 2R	5840943	5928943	located_end	5840943
	estimated_end	5928943		
CH321-27B06 3LHet	386960	474960	located_end	386960
	estimated_end	474960		
CH321-27B07 X	12568520	12656520	estimated_end	12568520
	located_end	12656520		
CH321-27B08 3L	16668472	16756472	located_end	16668472
	estimated_end	16756472		
CH321-27B09 3R	11558316	11646316	located_end	11558316
	estimated_end	11646316		
CH321-27B11 X	6886267	6974267	estimated_end	6886267
	located_end	6974267		
CH321-27B12 2L	22048451	22136451	located_end	22048451
	estimated_end	22136451		
CH321-27B13 X	7517375	7605375	located_end	7517375
	estimated_end	7605375		
CH321-27B15 2L	15350968	15438968	located_end	15350968
	estimated_end	15438968		
CH321-27B18 4	293310	381310	estimated_end	293310
	located_end	381310		
CH321-27B19 2L	4238877	4326877	located_end	4238877
	estimated_end	4326877		
CH321-27B20 X	15805567	15893567	estimated_end	15805567
	located_end	15893567		
CH321-27B21 2R	7594630	7682630	estimated_end	7594630
	located_end	7682630		
CH321-27B23 ArmU	9708205	9796205	estimated_end	9708205
	located_end	9796205		
CH321-27B24 3R	20242965	20330965	estimated_end	20242965
	located_end	20330965		
CH321-27C01 3L	5472139	5560139	estimated_end	5472139
	located_end	5560139		
CH321-27C02 2L	7606037	7694037	located_end	7606037
	estimated_end	7694037		
CH321-27C04 X	7017709	7105709	located_end	7017709
	estimated_end	7105709		
CH321-27C05 X	20711548	20799548	estimated_end	20711548
	located_end	20799548		
CH321-27C06 3R	18268093	18356093	estimated_end	18268093
	located_end	18356093		

CH321-27C07 3L	17157367	17245367	estimated_end	17157367
	located_end	17245367		
CH321-27C10 2L	10149214	10237214	located_end	10149214
	estimated_end	10237214		
CH321-27C11 3R	27727759	27815759	located_end	27727759
	estimated_end	27815759		
CH321-27C13 3L	12113623	12201623	located_end	12113623
	estimated_end	12201623		
CH321-27C14 2L	16666608	16754608	located_end	16666608
	estimated_end	16754608		
CH321-27C16 3LHet	2284773	2372773	located_end	2284773
	estimated_end	2372773		
CH321-27C17 2L	9127208	9215208	estimated_end	9127208
	located_end	9215208		
CH321-27C18 3L	3607615	3695615	located_end	3607615
	estimated_end	3695615		
CH321-27C19 3R	5899918	5987918	located_end	5899918
	estimated_end	5987918		
CH321-27C20 2L	13198558	13286558	located_end	13198558
	estimated_end	13286558		
CH321-27C23 3R	1691374	1779374	estimated_end	1691374
	located_end	1779374		
CH321-27D01 X	11722136	11810136	located_end	11722136
	estimated_end	11810136		
CH321-27D02 ArmU	9224998	9312998	located_end	9224998
	estimated_end	9312998		
CH321-27D03 3R	25849999	25937999	located_end	25849999
	estimated_end	25937999		
CH321-27D04 3L	14873972	14961972	located_end	14873972
	estimated_end	14961972		
CH321-27D06 X	6035642	6123642	estimated_end	6035642
	located_end	6123642		
CH321-27D08 2L	8294514	8382514	located_end	8294514
	estimated_end	8382514		
CH321-27D09 2L	3021999	3109999	estimated_end	3021999
	located_end	3109999		
CH321-27D10 3L	12209576	12297576	located_end	12209576
	estimated_end	12297576		
CH321-27D12 3L	19306757	19394757	located_end	19306757
	estimated_end	19394757		
CH321-27D13 2L	15173146	15261146	located_end	15173146
	estimated_end	15261146		
CH321-27D15 3L	22196614	22284614	estimated_end	22196614
	located_end	22284614		
CH321-27D16 2R	14474835	14562835	located_end	14474835
	estimated_end	14562835		
CH321-27D17 2L	12169381	12257381	estimated_end	12169381
	located_end	12257381		
CH321-27D18 2R	17270247	17358247	located_end	17270247
	estimated_end	17358247		
CH321-27D22 X	15727362	15815362	located_end	15727362
	estimated_end	15815362		
CH321-27D23 X	12881955	12969955	located_end	12881955
	estimated_end	12969955		

CH321-27D24 3R	14409965	14497965	located_end	14409965
	estimated_end	14497965		
CH321-27E01 3R	8948180	9036180	estimated_end	8948180
	located_end	9036180		
CH321-27E02 2L	10853284	10941284	located_end	10853284
	estimated_end	10941284		
CH321-27E03 XHet	80649 168649		estimated_end	80649 located_end
	168649			
CH321-27E04 2L	2055314	2143314	estimated_end	2055314
	located_end	2143314		
CH321-27E05 3L	2995504	3083504	located_end	2995504
	estimated_end	3083504		
CH321-27E06 2L	4228417	4316417	located_end	4228417
	estimated_end	4316417		
CH321-27E09 2R	915094	1003094	located_end	915094
	estimated_end	1003094		
CH321-27E11 2L	13437905	13525905	located_end	13437905
	estimated_end	13525905		
CH321-27E13 2L	18009733	18097733	located_end	18009733
	estimated_end	18097733		
CH321-27E15 2L	6426640	6514640	located_end	6426640
	estimated_end	6514640		
CH321-27E18 3L	13448354	13536354	estimated_end	13448354
	located_end	13536354		
CH321-27E21 X	5756500	5844500	estimated_end	5756500
	located_end	5844500		
CH321-27E22 X	20634551	20722551	located_end	20634551
	estimated_end	20722551		
CH321-27E24 2L	21922472	22010472	estimated_end	21922472
	located_end	22010472		
CH321-27F02 3R	8086694	8174694	estimated_end	8086694
	located_end	8174694		
CH321-27F03 3R	27130025	27218025	estimated_end	27130025
	located_end	27218025		
CH321-27F04 3L	17906986	17994986	estimated_end	17906986
	located_end	17994986		
CH321-27F05 3L	7516615	7604615	located_end	7516615
	estimated_end	7604615		
CH321-27F06 3R	27121620	27209620	located_end	27121620
	estimated_end	27209620		
CH321-27F07 3LHet	1500616	1588616	located_end	1500616
	estimated_end	1588616		
CH321-27F08 X	10687281	10775281	located_end	10687281
	estimated_end	10775281		
CH321-27F09 3R	5487420	5575420	located_end	5487420
	estimated_end	5575420		
CH321-27F10 3R	2791696	2879696	estimated_end	2791696
	located_end	2879696		
CH321-27F11 2R	5106441	5194441	estimated_end	5106441
	located_end	5194441		
CH321-27F12 2L	13462340	13550340	located_end	13462340
	estimated_end	13550340		
CH321-27F15 2R	5068475	5156475	estimated_end	5068475
	located_end	5156475		

CH321-27F17 X	4359906	4447906	estimated_end	4359906
	located_end	4447906		
CH321-27F20 2L	21084053	21172053	located_end	21084053
	estimated_end	21172053		
CH321-27F23 2R	7285554	7373554	estimated_end	7285554
	located_end	7373554		
CH321-27G01 2R	17116501	17204501	estimated_end	17116501
	located_end	17204501		
CH321-27G02 2R	12908288	12996288	estimated_end	12908288
	located_end	12996288		
CH321-27G03 3L	14908029	14996029	located_end	14908029
	estimated_end	14996029		
CH321-27G04 3R	4265169	4353169	located_end	4265169
	estimated_end	4353169		
CH321-27G05 3R	14870582	14958582	estimated_end	14870582
	located_end	14958582		
CH321-27G08 3L	21913593	22001593	located_end	21913593
	estimated_end	22001593		
CH321-27G09 2L	16097314	16185314	estimated_end	16097314
	located_end	16185314		
CH321-27G11 3L	19314573	19402573	located_end	19314573
	estimated_end	19402573		
CH321-27G16 2RHet	3165594	3253594	located_end	3165594
	estimated_end	3253594		
CH321-27G17 2L	5635674	5723674	estimated_end	5635674
	located_end	5723674		
CH321-27G20 3L	3563928	3651928	located_end	3563928
	estimated_end	3651928		
CH321-27H02 3R	11179368	11267368	estimated_end	11179368
	located_end	11267368		
CH321-27H03 2L	11873182	11961182	located_end	11873182
	estimated_end	11961182		
CH321-27H04 3L	16758233	16846233	estimated_end	16758233
	located_end	16846233		
CH321-27H05 2L	19110193	19198193	estimated_end	19110193
	located_end	19198193		
CH321-27H07 3L	17651238	17739238	estimated_end	17651238
	located_end	17739238		
CH321-27H10 3L	12284398	12372398	estimated_end	12284398
	located_end	12372398		
CH321-27H12 3R	17054225	17142225	estimated_end	17054225
	located_end	17142225		
CH321-27H13 2L	9647219	9735219	located_end	9647219
	estimated_end	9735219		
CH321-27H14 3R	23711717	23799717	located_end	23711717
	estimated_end	23799717		
CH321-27H24 3R	21330867	21418867	estimated_end	21330867
	located_end	21418867		
CH321-27I01 2R	3857059	3945059	located_end	3857059
	estimated_end	3945059		
CH321-27I02 X	7626709	7714709	located_end	7626709
	estimated_end	7714709		
CH321-27I03 X	17178162	17266162	located_end	17178162
	estimated_end	17266162		

CH321-27I05 2R	11754293	11842293	located_end	11754293
	estimated_end	11842293		
CH321-27I06 3L	17784780	17872780	located_end	17784780
	estimated_end	17872780		
CH321-27I09 3L	10348751	10436751	located_end	10348751
	estimated_end	10436751		
CH321-27I17 2R	14778067	14866067	located_end	14778067
	estimated_end	14866067		
CH321-27I18 3R	23164669	23252669	located_end	23164669
	estimated_end	23252669		
CH321-27I20 2L	15868149	15956149	located_end	15868149
	estimated_end	15956149		
CH321-27I22 3R	15346300	15434300	estimated_end	15346300
	located_end	15434300		
CH321-27I23 2L	3364957	3452957	estimated_end	3364957
	located_end	3452957		
CH321-27J01 X	14353162	14441162	located_end	14353162
	estimated_end	14441162		
CH321-27J02 2L	19177958	19265958	estimated_end	19177958
	located_end	19265958		
CH321-27J03 2R	5575526	5663526	estimated_end	5575526
	located_end	5663526		
CH321-27J05 3R	9697735	9785735	estimated_end	9697735
	located_end	9785735		
CH321-27J06 2R	14197897	14285897	estimated_end	14197897
	located_end	14285897		
CH321-27J07 3R	27034936	27122936	located_end	27034936
	estimated_end	27122936		
CH321-27J09 3L	14607344	14695344	located_end	14607344
	estimated_end	14695344		
CH321-27J10 3L	8106738	8194738	located_end	8106738
	estimated_end	8194738		
CH321-27J12 2L	388406	476406	located_end	388406
	estimated_end	476406		
CH321-27J18 2R	8309890	8397890	located_end	8309890
	estimated_end	8397890		
CH321-27J20 2R	20463463	20551463	located_end	20463463
	estimated_end	20551463		
CH321-27J22 2R	12447014	12535014	located_end	12447014
	estimated_end	12535014		
CH321-27J23 2L	18902554	18990554	located_end	18902554
	estimated_end	18990554		
CH321-27J24 2R	6212517	6300517	estimated_end	6212517
	located_end	6300517		
CH321-27K01 3L	15852978	15940978	estimated_end	15852978
	located_end	15940978		
CH321-27K02 2R	17566848	17654848	estimated_end	17566848
	located_end	17654848		
CH321-27K03 2R	14546971	14634971	located_end	14546971
	estimated_end	14634971		
CH321-27K04 2L	6986896	7074896	located_end	6986896
	estimated_end	7074896		
CH321-27K05 2L	12192766	12280766	located_end	12192766
	estimated_end	12280766		

CH321-27K07 3L	16944312	17032312	estimated_end	16944312
	located_end	17032312		
CH321-27K08 2L	9252548	9340548	estimated_end	9252548
	located_end	9340548		
CH321-27K24 2R	16861006	16949006	located_end	16861006
	estimated_end	16949006		
CH321-27L01 3L	17144693	17232693	estimated_end	17144693
	located_end	17232693		
CH321-27L02 3L	3512258	3600258	located_end	3512258
	estimated_end	3600258		
CH321-27L03 2R	12501483	12589483	estimated_end	12501483
	located_end	12589483		
CH321-27L04 X	20633014	20721014	located_end	20633014
	estimated_end	20721014		
CH321-27L05 2L	2745172	2833172	located_end	2745172
	estimated_end	2833172		
CH321-27L07 2L	7242747	7330747	estimated_end	7242747
	located_end	7330747		
CH321-27L09 ArmU	907346	995346	estimated_end	907346
	located_end	995346		
CH321-27L18 2L	13023726	13111726	estimated_end	13023726
	located_end	13111726		
CH321-27L20 2L	18488682	18576682	located_end	18488682
	estimated_end	18576682		
CH321-27M01 2R	16337906	16425906	estimated_end	16337906
	located_end	16425906		
CH321-27M02 2R	5837456	5925456	located_end	5837456
	estimated_end	5925456		
CH321-27M03 3R	9667099	9755099	located_end	9667099
	estimated_end	9755099		
CH321-27M05 2R	15912438	16000438	estimated_end	15912438
	located_end	16000438		
CH321-27M06 3L	24060088	24148088	estimated_end	24060088
	located_end	24148088		
CH321-27M12 3R	24867148	24955148	estimated_end	24867148
	located_end	24955148		
CH321-27M19 2L	6727208	6815208	located_end	6727208
	estimated_end	6815208		
CH321-27N01 3R	11029748	11117748	located_end	11029748
	estimated_end	11117748		
CH321-27N02 2R	4864807	4952807	estimated_end	4864807
	located_end	4952807		
CH321-27N03 X	6788315	6876315	located_end	6788315
	estimated_end	6876315		
CH321-27N05 2L	21198490	21286490	estimated_end	21198490
	located_end	21286490		
CH321-27N06 X	17636732	17724732	located_end	17636732
	estimated_end	17724732		
CH321-27N07 2R	19286326	19374326	estimated_end	19286326
	located_end	19374326		
CH321-27N09 2L	14448853	14536853	located_end	14448853
	estimated_end	14536853		
CH321-27N17 3L	7517107	7605107	estimated_end	7517107
	located_end	7605107		

CH321-27N22 2R	7056975	7144975	estimated_end	7056975
	located_end	7144975		
CH321-27O01 2L	8788003	8876003	located_end	8788003
	estimated_end	8876003		
CH321-27O02 3L	11526011	11614011	located_end	11526011
	estimated_end	11614011		
CH321-27O05 2L	16971090	17059090	located_end	16971090
	estimated_end	17059090		
CH321-27O06 3R	19195729	19283729	estimated_end	19195729
	located_end	19283729		
CH321-27O09 X	17436191	17524191	estimated_end	17436191
	located_end	17524191		
CH321-27O12 2L	8271330	8359330	located_end	8271330
	estimated_end	8359330		
CH321-27O15 2R	7404155	7492155	located_end	7404155
	estimated_end	7492155		
CH321-27O18 3R	14002828	14090828	located_end	14002828
	estimated_end	14090828		
CH321-27O19 2R	12451230	12539230	located_end	12451230
	estimated_end	12539230		
CH321-27O20 2R	2731122	2819122	located_end	2731122
	estimated_end	2819122		
CH321-27O21 2R	18826328	18914328	located_end	18826328
	estimated_end	18914328		
CH321-27P01 2L	18221831	18309831	estimated_end	18221831
	located_end	18309831		
CH321-27P02 2R	333426	421426	estimated_end	333426
	located_end	421426		
CH321-27P04 X	6839389	6927389	estimated_end	6839389
	located_end	6927389		
CH321-27P05 2RHet	3152170	3240170	located_end	3152170
	estimated_end	3240170		
CH321-27P06 2L	18619560	18707560	estimated_end	18619560
	located_end	18707560		
CH321-27P10 3R	17438069	17526069	estimated_end	17438069
	located_end	17526069		
CH321-27P12 3R	5308951	5396951	estimated_end	5308951
	located_end	5396951		
CH321-27P13 2R	4732007	4820007	located_end	4732007
	estimated_end	4820007		
CH321-27P15 3R	11873871	11961871	located_end	11873871
	estimated_end	11961871		
CH321-27P18 2R	3146021	3234021	estimated_end	3146021
	located_end	3234021		
CH321-27P22 3L	16037300	16125300	estimated_end	16037300
	located_end	16125300		
CH321-28A09 2R	9462808	9550808	estimated_end	9462808
	located_end	9550808		
CH321-28A10 3L	12020183	12108183	located_end	12020183
	estimated_end	12108183		
CH321-28A11 X	9466972	9554972	estimated_end	9466972
	located_end	9554972		
CH321-28A12 2L	2051004	2139004	located_end	2051004
	estimated_end	2139004		

CH321-28A19 2L	16356767	16444767	estimated_end	16356767
	located_end	16444767		
CH321-28A20 3L	2008505	2096505	estimated_end	2008505
	located_end	2096505		
CH321-28A23 2L	7147504	7235504	estimated_end	7147504
	located_end	7235504		
CH321-28B01 2R	6500301	6588301	located_end	6500301
	estimated_end	6588301		
CH321-28B18 3R	11469789	11557789	located_end	11469789
	estimated_end	11557789		
CH321-28B20 3L	13284944	13372944	estimated_end	13284944
	located_end	13372944		
CH321-28B21 3L	7340287	7428287	located_end	7340287
	estimated_end	7428287		
CH321-28B22 X	18580792	18668792	estimated_end	18580792
	located_end	18668792		
CH321-28B23 X	17079292	17167292	located_end	17079292
	estimated_end	17167292		
CH321-28C07 3R	16614894	16702894	estimated_end	16614894
	located_end	16702894		
CH321-28C16 3L	18331819	18419819	located_end	18331819
	estimated_end	18419819		
CH321-28D06 3R	9994140	10082140	estimated_end	9994140
	located_end	10082140		
CH321-28D16 3L	11224639	11312639	located_end	11224639
	estimated_end	11312639		
CH321-28D17 2L	11859170	11947170	located_end	11859170
	estimated_end	11947170		
CH321-28E01 3L	22892067	22980067	located_end	22892067
	estimated_end	22980067		
CH321-28E02 3R	24006289	24094289	estimated_end	24006289
	located_end	24094289		
CH321-28E23 X	8429372	8517372	located_end	8429372
	estimated_end	8517372		
CH321-28F01 3R	24865263	24953263	estimated_end	24865263
	located_end	24953263		
CH321-28F06 2R	565381	653381	located_end	565381
	estimated_end	653381		
CH321-28F08 2R	16260757	16348757	estimated_end	16260757
	located_end	16348757		
CH321-28F13 2R	15943851	16031851	located_end	15943851
	estimated_end	16031851		
CH321-28F14 ArmU	1089850	1177850	located_end	1089850
	estimated_end	1177850		
CH321-28F20 2R	15082844	15170844	located_end	15082844
	estimated_end	15170844		
CH321-28F21 2L	5983289	6071289	located_end	5983289
	estimated_end	6071289		
CH321-28F23 X	9674246	9762246	estimated_end	9674246
	located_end	9762246		
CH321-28F24 3L	18519456	18607456	estimated_end	18519456
	located_end	18607456		
CH321-28G02 2R	11125820	11213820	estimated_end	11125820
	located_end	11213820		

CH321-28G03 3L	2786746	2874746	located_end 2786746
	estimated_end	2874746	
CH321-28G04 2RHet	3167737	3255737	located_end 3167737
	estimated_end	3255737	
CH321-28G06 ArmU	1255308	1343308	located_end 1255308
	estimated_end	1343308	
CH321-28G07 3L	9280546	9368546	located_end 9280546
	estimated_end	9368546	
CH321-28G09 2L	8948033	9036033	estimated_end 8948033
	located_end	9036033	
CH321-28G10 3R	21926933	22014933	estimated_end 21926933
	located_end	22014933	
CH321-28G15 2L	18549490	18637490	located_end 18549490
	estimated_end	18637490	
CH321-28G18 3L	4234991	4322991	located_end 4234991
	estimated_end	4322991	
CH321-28H14 2R	17601608	17689608	estimated_end 17601608
	located_end	17689608	
CH321-28H16 2L	3375091	3463091	located_end 3375091
	estimated_end	3463091	
CH321-28H22 3R	5909564	5997564	located_end 5909564
	estimated_end	5997564	
CH321-28I01 X	13737532	13825532	located_end 13737532
	estimated_end	13825532	
CH321-28I03 3R	18321550	18409550	estimated_end 18321550
	located_end	18409550	
CH321-28I04 2L	15336748	15424748	located_end 15336748
	estimated_end	15424748	
CH321-28I05 X	6616430	6704430	located_end 6616430
	estimated_end	6704430	
CH321-28I08 3R	17953987	18041987	estimated_end 17953987
	located_end	18041987	
CH321-28I12 X	20476776	20564776	located_end 20476776
	estimated_end	20564776	
CH321-28I15 2R	10885154	10973154	located_end 10885154
	estimated_end	10973154	
CH321-28I17 2R	2066656	2154656	estimated_end 2066656
	located_end	2154656	
CH321-28I19 2R	4224701	4312701	located_end 4224701
	estimated_end	4312701	
CH321-28I20 3L	8934923	9022923	estimated_end 8934923
	located_end	9022923	
CH321-28I22 3L	5674303	5762303	estimated_end 5674303
	located_end	5762303	
CH321-28J04 3R	10630823	10718823	estimated_end 10630823
	located_end	10718823	
CH321-28J06 3R	5907118	5995118	located_end 5907118
	estimated_end	5995118	
CH321-28J07 2R	5492786	5580786	estimated_end 5492786
	located_end	5580786	
CH321-28J14 X	21353341	21441341	located_end 21353341
	estimated_end	21441341	
CH321-28J15 2L	12339223	12427223	located_end 12339223
	estimated_end	12427223	

CH321-28J16 2L	17816287	17904287	located_end	17816287
estimated_end	17904287			
CH321-28J18 2L	15165505	15253505	located_end	15165505
estimated_end	15253505			
CH321-28J21 3L	8708323	8796323	estimated_end	8708323
located_end	8796323			
CH321-28K02 2R	2644412	2732412	estimated_end	2644412
located_end	2732412			
CH321-28K04 3RHet	1744278	1832278	estimated_end	1744278
located_end	1832278			
CH321-28K05 3R	26951126	27039126	located_end	26951126
estimated_end	27039126			
CH321-28K07 2L	17112527	17200527	located_end	17112527
estimated_end	17200527			
CH321-28K08 3R	23833311	23921311	located_end	23833311
estimated_end	23921311			
CH321-28K10 3L	7231902	7319902	located_end	7231902
estimated_end	7319902			
CH321-28K11 X	21846554	21934554	estimated_end	21846554
located_end	21934554			
CH321-28K13 3L	12871824	12959824	located_end	12871824
estimated_end	12959824			
CH321-28K16 3R	9036217	9124217	located_end	9036217
estimated_end	9124217			
CH321-28K22 3R	15966002	16054002	located_end	15966002
estimated_end	16054002			
CH321-28L04 2R	8831816	8919816	located_end	8831816
estimated_end	8919816			
CH321-28L12 X	5020757	5108757	located_end	5020757
estimated_end	5108757			
CH321-28L18 3L	2781840	2869840	estimated_end	2781840
located_end	2869840			
CH321-28L20 3R	18915046	19003046	estimated_end	18915046
located_end	19003046			
CH321-28L21 X	6040393	6128393	located_end	6040393
estimated_end	6128393			
CH321-28L22 2L	15789160	15877160	located_end	15789160
estimated_end	15877160			
CH321-28M03 3R	1868353	1956353	estimated_end	1868353
located_end	1956353			
CH321-28M05 2LHet	275009	363009	located_end	275009
estimated_end	363009			
CH321-28M08 2L	6182639	6270639	located_end	6182639
estimated_end	6270639			
CH321-28M14 3R	4668395	4756395	estimated_end	4668395
located_end	4756395			
CH321-28M16 3LHet	1350772	1438772	estimated_end	1350772
located_end	1438772			
CH321-28M17 3R	13763440	13851440	estimated_end	13763440
located_end	13851440			
CH321-28M21 3L	7699588	7787588	located_end	7699588
estimated_end	7787588			
CH321-28M22 3L	18457478	18545478	estimated_end	18457478
located_end	18545478			

CH321-28M24 3R	15254130	15342130	estimated_end	15254130
	located_end	15342130		
CH321-28N03 3L	16960619	17048619	estimated_end	16960619
	located_end	17048619		
CH321-28N07 X	13393312	13481312	located_end	13393312
	estimated_end	13481312		
CH321-28N09 3L	19376154	19464154	estimated_end	19376154
	located_end	19464154		
CH321-28N14 2R	15097240	15185240	estimated_end	15097240
	located_end	15185240		
CH321-28N15 3L	13960678	14048678	estimated_end	13960678
	located_end	14048678		
CH321-28N18 2R	13318217	13406217	estimated_end	13318217
	located_end	13406217		
CH321-28N20 3R	4276872	4364872	located_end	4276872
	estimated_end	4364872		
CH321-28N21 3L	1956194	2044194	located_end	1956194
	estimated_end	2044194		
CH321-28N23 2L	11752223	11840223	estimated_end	11752223
	located_end	11840223		
CH321-28O03 2L	18369632	18457632	located_end	18369632
	estimated_end	18457632		
CH321-28O06 3L	22719824	22807824	located_end	22719824
	estimated_end	22807824		
CH321-28O09 3L	11234101	11322101	located_end	11234101
	estimated_end	11322101		
CH321-28O10 X	3760923	3848923	located_end	3760923
	estimated_end	3848923		
CH321-28O11 3L	22749880	22837880	estimated_end	22749880
	located_end	22837880		
CH321-28O22 3R	24271541	24359541	estimated_end	24271541
	located_end	24359541		
CH321-28P01 3R	4554122	4642122	estimated_end	4554122
	located_end	4642122		
CH321-28P03 3R	9886335	9974335	estimated_end	9886335
	located_end	9974335		
CH321-28P04 3L	21335984	21423984	estimated_end	21335984
	located_end	21423984		
CH321-28P05 3R	4664846	4752846	estimated_end	4664846
	located_end	4752846		
CH321-28P08 2L	9427495	9515495	located_end	9427495
	estimated_end	9515495		
CH321-29A03 3R	21726400	21814400	located_end	21726400
	estimated_end	21814400		
CH321-29A04 3R	27536866	27624866	estimated_end	27536866
	located_end	27624866		
CH321-29A06 3R	1722358	1810358	located_end	1722358
	estimated_end	1810358		
CH321-29A07 X	10836012	10924012	located_end	10836012
	estimated_end	10924012		
CH321-29A09 3R	8882968	8970968	located_end	8882968
	estimated_end	8970968		
CH321-29A10 3R	21223704	21311704	estimated_end	21223704
	located_end	21311704		

CH321-29A11 2L	10771534	10859534	located_end	10771534
	estimated_end	10859534		
CH321-29A12 X	64244	152244	estimated_end	64244
	located_end	152244	located_end	
CH321-29A14 3R	13622890	13710890	located_end	13622890
	estimated_end	13710890		
CH321-29A15 3L	20629729	20717729	estimated_end	20629729
	located_end	20717729		
CH321-29A19 2L	9644046	9732046	estimated_end	9644046
	located_end	9732046		
CH321-29A21 2L	13797604	13885604	estimated_end	13797604
	located_end	13885604		
CH321-29A22 X	19600374	19688374	located_end	19600374
	estimated_end	19688374		
CH321-29B01 2L	6254575	6342575	estimated_end	6254575
	located_end	6342575		
CH321-29B03 3R	2944545	3032545	located_end	2944545
	estimated_end	3032545		
CH321-29B04 2R	12072594	12160594	estimated_end	12072594
	located_end	12160594		
CH321-29B06 3L	20691792	20779792	located_end	20691792
	estimated_end	20779792		
CH321-29B08 3L	11316363	11404363	located_end	11316363
	estimated_end	11404363		
CH321-29B09 3R	14688440	14776440	estimated_end	14688440
	located_end	14776440		
CH321-29B11 3L	6059143	6147143	located_end	6059143
	estimated_end	6147143		
CH321-29B15 2R	2658125	2746125	estimated_end	2658125
	located_end	2746125		
CH321-29B16 2L	10405358	10493358	estimated_end	10405358
	located_end	10493358		
CH321-29B18 3L	22897144	22985144	located_end	22897144
	estimated_end	22985144		
CH321-29B19 2L	16382925	16470925	located_end	16382925
	estimated_end	16470925		
CH321-29B22 2R	17089304	17177304	located_end	17089304
	estimated_end	17177304		
CH321-29B24 3L	16105877	16193877	estimated_end	16105877
	located_end	16193877		
CH321-29C01 3L	17133980	17221980	located_end	17133980
	estimated_end	17221980		
CH321-29C04 3L	13196185	13284185	estimated_end	13196185
	located_end	13284185		
CH321-29C05 2L	16330771	16418771	estimated_end	16330771
	located_end	16418771		
CH321-29C06 2L	12428192	12516192	located_end	12428192
	estimated_end	12516192		
CH321-29C08 X	12859609	12947609	estimated_end	12859609
	located_end	12947609		
CH321-29C09 3L	9188116	9276116	located_end	9188116
	estimated_end	9276116		
CH321-29C12 3L	4694965	4782965	located_end	4694965
	estimated_end	4782965		

CH321-29C16 3L	19585235	19673235	estimated_end	19585235
	located_end	19673235		
CH321-29C17 2L	10481427	10569427	estimated_end	10481427
	located_end	10569427		
CH321-29C18 2R	16427684	16515684	estimated_end	16427684
	located_end	16515684		
CH321-29C19 3R	3531324	3619324	estimated_end	3531324
	located_end	3619324		
CH321-29C22 X	22075923	22163923	estimated_end	22075923
	located_end	22163923		
CH321-29C23 2R	10680018	10768018	estimated_end	10680018
	located_end	10768018		
CH321-29C24 2L	9860823	9948823	located_end	9860823
	estimated_end	9948823		
CH321-29D01 2L	18364991	18452991	located_end	18364991
	estimated_end	18452991		
CH321-29D02 2L	9372388	9460388	estimated_end	9372388
	located_end	9460388		
CH321-29D05 ArmU	1518937	1606937	located_end	1518937
	estimated_end	1606937		
CH321-29D06 3L	8791471	8879471	estimated_end	8791471
	located_end	8879471		
CH321-29D07 3L	13105296	13193296	estimated_end	13105296
	located_end	13193296		
CH321-29D08 3L	22330522	22418522	estimated_end	22330522
	located_end	22418522		
CH321-29D13 2L	132969	220969	located_end	132969
	estimated_end	220969		
CH321-29D14 2R	12015399	12103399	located_end	12015399
	estimated_end	12103399		
CH321-29D20 3L	20545893	20633893	estimated_end	20545893
	located_end	20633893		
CH321-29D21 2L	11006416	11094416	estimated_end	11006416
	located_end	11094416		
CH321-29D23 3R	22963998	23051998	estimated_end	22963998
	located_end	23051998		
CH321-29D24 X	10183593	10271593	estimated_end	10183593
	located_end	10271593		
CH321-29E01 3L	18286958	18374958	estimated_end	18286958
	located_end	18374958		
CH321-29E02 3L	17363089	17451089	located_end	17363089
	estimated_end	17451089		
CH321-29E03 3L	10593952	10681952	estimated_end	10593952
	located_end	10681952		
CH321-29E04 2R	13200426	13288426	estimated_end	13200426
	located_end	13288426		
CH321-29E06 3L	23845724	23933724	estimated_end	23845724
	located_end	23933724		
CH321-29E07 2L	15336578	15424578	estimated_end	15336578
	located_end	15424578		
CH321-29E08 2R	17260362	17348362	located_end	17260362
	estimated_end	17348362		
CH321-29E09 3R	3697137	3785137	estimated_end	3697137
	located_end	3785137		

CH321-29E10 3R	20963876	21051876	estimated_end	20963876
	located_end	21051876		
CH321-29E11 3R	21111381	21199381	estimated_end	21111381
	located_end	21199381		
CH321-29E13 3L	2403218	2491218	located_end	2403218
	estimated_end	2491218		
CH321-29E16 2L	17372245	17460245	estimated_end	17372245
	located_end	17460245		
CH321-29E17 2R	5584618	5672618	estimated_end	5584618
	located_end	5672618		
CH321-29E18 3R	11870005	11958005	located_end	11870005
	estimated_end	11958005		
CH321-29E22 3R	2266521	2354521	located_end	2266521
	estimated_end	2354521		
CH321-29F01 X	4734793	4822793	estimated_end	4734793
	located_end	4822793		
CH321-29F02 3R	7180359	7268359	located_end	7180359
	estimated_end	7268359		
CH321-29F03 3L	9631239	9719239	estimated_end	9631239
	located_end	9719239		
CH321-29F04 2L	21894438	21982438	located_end	21894438
	estimated_end	21982438		
CH321-29F06 3R	22098580	22186580	located_end	22098580
	estimated_end	22186580		
CH321-29F08 X	2198845	2286845	estimated_end	2198845
	located_end	2286845		
CH321-29F09 2L	20916728	21004728	located_end	20916728
	estimated_end	21004728		
CH321-29F10 X	4355244	4443244	located_end	4355244
	estimated_end	4443244		
CH321-29F11 3L	11286588	11374588	estimated_end	11286588
	located_end	11374588		
CH321-29F13 2R	9652809	9740809	estimated_end	9652809
	located_end	9740809		
CH321-29F14 X	17541896	17629896	estimated_end	17541896
	located_end	17629896		
CH321-29F15 2R	5320049	5408049	located_end	5320049
	estimated_end	5408049		
CH321-29F16 2R	3688616	3776616	located_end	3688616
	estimated_end	3776616		
CH321-29F17 2L	10172686	10260686	located_end	10172686
	estimated_end	10260686		
CH321-29F18 3L	15057986	15145986	located_end	15057986
	estimated_end	15145986		
CH321-29F24 3L	12146864	12234864	estimated_end	12146864
	located_end	12234864		
CH321-29G07 X	8882626	8970626	estimated_end	8882626
	located_end	8970626		
CH321-29G08 2L	7519594	7607594	located_end	7519594
	estimated_end	7607594		
CH321-29G09 2R	11466776	11554776	located_end	11466776
	estimated_end	11554776		
CH321-29G10 2L	4352896	4440896	located_end	4352896
	estimated_end	4440896		

CH321-29G11 3LHet	1305866	1393866	estimated_end	1305866
	located_end	1393866		
CH321-29G12 X	3711051	3799051	located_end	3711051
	estimated_end	3799051		
CH321-29G13 X	1097335	1185335	located_end	1097335
	estimated_end	1185335		
CH321-29G14 X	13734843	13822843	estimated_end	13734843
	located_end	13822843		
CH321-29G16 2R	17262745	17350745	estimated_end	17262745
	located_end	17350745		
CH321-29G17 2R	13479083	13567083	estimated_end	13479083
	located_end	13567083		
CH321-29G18 X	7446586	7534586	located_end	7446586
	estimated_end	7534586		
CH321-29G19 3L	9198539	9286539	located_end	9198539
	estimated_end	9286539		
CH321-29G20 X	19859969	19947969	located_end	19859969
	estimated_end	19947969		
CH321-29G22 2L	12354519	12442519	estimated_end	12354519
	located_end	12442519		
CH321-29H01 2L	3235524	3323524	located_end	3235524
	estimated_end	3323524		
CH321-29H03 2R	9894864	9982864	located_end	9894864
	estimated_end	9982864		
CH321-29H04 2L	8895273	8983273	estimated_end	8895273
	located_end	8983273		
CH321-29H05 2L	15448353	15536353	estimated_end	15448353
	located_end	15536353		
CH321-29H06 2R	10189582	10277582	located_end	10189582
	estimated_end	10277582		
CH321-29H07 X	8245257	8333257	estimated_end	8245257
	located_end	8333257		
CH321-29H08 3L	18453094	18541094	located_end	18453094
	estimated_end	18541094		
CH321-29H09 3L	10285077	10373077	located_end	10285077
	estimated_end	10373077		
CH321-29H10 3L	9910613	9998613	located_end	9910613
	estimated_end	9998613		
CH321-29H11 X	9531870	9619870	located_end	9531870
	estimated_end	9619870		
CH321-29H12 3R	26949221	27037221	located_end	26949221
	estimated_end	27037221		
CH321-29H13 X	10558539	10646539	located_end	10558539
	estimated_end	10646539		
CH321-29H14 3R	3501035	3589035	estimated_end	3501035
	located_end	3589035		
CH321-29H15 2R	7336935	7424935	estimated_end	7336935
	located_end	7424935		
CH321-29H17 3R	4387733	4475733	located_end	4387733
	estimated_end	4475733		
CH321-29H18 X	20359420	20447420	located_end	20359420
	estimated_end	20447420		
CH321-29H19 3R	21853730	21941730	located_end	21853730
	estimated_end	21941730		

CH321-29H20 2L	1439206	1527206	estimated_end	1439206
	located_end	1527206		
CH321-29H21 2R	4361413	4449413	located_end	4361413
	estimated_end	4449413		
CH321-29H24 2L	19173572	19261572	estimated_end	19173572
	located_end	19261572		
CH321-29I01 2L	15645657	15733657	estimated_end	15645657
	located_end	15733657		
CH321-29I02 3R	9045429	9133429	located_end	9045429
	estimated_end	9133429		
CH321-29I04 2R	2519892	2607892	estimated_end	2519892
	located_end	2607892		
CH321-29I06 ArmU	3134139	3222139	located_end	3134139
	estimated_end	3222139		
CH321-29I07 3L	15236449	15324449	estimated_end	15236449
	located_end	15324449		
CH321-29I08 2R	3568377	3656377	estimated_end	3568377
	located_end	3656377		
CH321-29I11 2L	22055241	22143241	estimated_end	22055241
	located_end	22143241		
CH321-29I12 3R	4327836	4415836	estimated_end	4327836
	located_end	4415836		
CH321-29I14 2R	3107343	3195343	estimated_end	3107343
	located_end	3195343		
CH321-29I15 X	15115420	15203420	located_end	15115420
	estimated_end	15203420		
CH321-29I17 3R	25423895	25511895	estimated_end	25423895
	located_end	25511895		
CH321-29I18 2L	15757763	15845763	located_end	15757763
	estimated_end	15845763		
CH321-29I19 3L	3683089	3771089	estimated_end	3683089
	located_end	3771089		
CH321-29I20 2L	1798508	1886508	estimated_end	1798508
	located_end	1886508		
CH321-29I22 2L	2024330	2112330	estimated_end	2024330
	located_end	2112330		
CH321-29I24 3R	6564916	6652916	located_end	6564916
	estimated_end	6652916		
CH321-29J01 2L	17825541	17913541	located_end	17825541
	estimated_end	17913541		
CH321-29J02 2R	16230132	16318132	located_end	16230132
	estimated_end	16318132		
CH321-29J08 X	852625	940625	estimated_end	852625
	located_end	940625		
CH321-29J10 3R	4992195	5080195	located_end	4992195
	estimated_end	5080195		
CH321-29J16 3R	1449180	1537180	located_end	1449180
	estimated_end	1537180		
CH321-29J19 2L	14823037	14911037	located_end	14823037
	estimated_end	14911037		
CH321-29J20 3R	15102924	15190924	estimated_end	15102924
	located_end	15190924		
CH321-29K02 3R	25331850	25419850	located_end	25331850
	estimated_end	25419850		

CH321-29K04 2L	17776943	17864943	estimated_end	17776943
	located_end	17864943		
CH321-29K06 2R	8045830	8133830	located_end	8045830
	estimated_end	8133830		
CH321-29K07 2L	355952	443952	located_end	355952
	estimated_end	443952		
CH321-29K08 2L	21554544	21642544	estimated_end	21554544
	located_end	21642544		
CH321-29K09 3R	13055981	13143981	estimated_end	13055981
	located_end	13143981		
CH321-29K10 2R	15042915	15130915	located_end	15042915
	estimated_end	15130915		
CH321-29K11 2L	3664078	3752078	estimated_end	3664078
	located_end	3752078		
CH321-29K13 3R	15762337	15850337	estimated_end	15762337
	located_end	15850337		
CH321-29K14 2L	8807398	8895398	located_end	8807398
	estimated_end	8895398		
CH321-29K16 X	5141907	5229907	located_end	5141907
	estimated_end	5229907		
CH321-29K17 X	7162133	7250133	estimated_end	7162133
	located_end	7250133		
CH321-29K18 3L	799211	887211	estimated_end	799211
	located_end	887211		
CH321-29K20 X	11230449	11318449	estimated_end	11230449
	located_end	11318449		
CH321-29L01 2R	8184423	8272423	located_end	8184423
	estimated_end	8272423		
CH321-29L02 3L	14116535	14204535	located_end	14116535
	estimated_end	14204535		
CH321-29L04 3L	15403672	15491672	located_end	15403672
	estimated_end	15491672		
CH321-29L06 3R	8919764	9007764	estimated_end	8919764
	located_end	9007764		
CH321-29L08 2R	8049806	8137806	located_end	8049806
	estimated_end	8137806		
CH321-29L10 2R	6324665	6412665	located_end	6324665
	estimated_end	6412665		
CH321-29L12 X	13750908	13838908	estimated_end	13750908
	located_end	13838908		
CH321-29L15 2R	12557815	12645815	estimated_end	12557815
	located_end	12645815		
CH321-29L16 2RHet	3084342	3172342	located_end	3084342
	estimated_end	3172342		
CH321-29L20 3LHet	1119058	1207058	estimated_end	1119058
	located_end	1207058		
CH321-29L22 2L	16738015	16826015	located_end	16738015
	estimated_end	16826015		
CH321-29M01 X	17041492	17129492	estimated_end	17041492
	located_end	17129492		
CH321-29M02 2R	6736622	6824622	located_end	6736622
	estimated_end	6824622		
CH321-29M03 X	10150487	10238487	estimated_end	10150487
	located_end	10238487		

CH321-29M04 3R	19415918	19503918	estimated_end	19415918
	located_end	19503918		
CH321-29M07 2R	16989366	17077366	estimated_end	16989366
	located_end	17077366		
CH321-29M08 2R	11331355	11419355	estimated_end	11331355
	located_end	11419355		
CH321-29M09 3R	9550209	9638209	estimated_end	9550209
	located_end	9638209		
CH321-29M10 3L	17012272	17100272	located_end	17012272
	estimated_end	17100272		
CH321-29M11 2R	15767199	15855199	located_end	15767199
	estimated_end	15855199		
CH321-29M12 2L	21850601	21938601	located_end	21850601
	estimated_end	21938601		
CH321-29M13 2R	15767201	15855201	located_end	15767201
	estimated_end	15855201		
CH321-29M14 2L	3095941	3183941	located_end	3095941
	estimated_end	3183941		
CH321-29M16 3L	20056468	20144468	located_end	20056468
	estimated_end	20144468		
CH321-29M18 2L	4600679	4688679	estimated_end	4600679
	located_end	4688679		
CH321-29M21 3L	8166361	8254361	estimated_end	8166361
	located_end	8254361		
CH321-29M22 3R	371863	459863	estimated_end	371863
	located_end	459863		
CH321-29N01 3R	15075426	15163426	estimated_end	15075426
	located_end	15163426		
CH321-29N02 3R	26744373	26832373	located_end	26744373
	estimated_end	26832373		
CH321-29N03 3R	25247176	25335176	located_end	25247176
	estimated_end	25335176		
CH321-29N04 3L	12279599	12367599	located_end	12279599
	estimated_end	12367599		
CH321-29N06 3R	7301435	7389435	located_end	7301435
	estimated_end	7389435		
CH321-29N07 2L	10306459	10394459	estimated_end	10306459
	located_end	10394459		
CH321-29N11 2L	9608766	9696766	estimated_end	9608766
	located_end	9696766		
CH321-29N12 2L	16738006	16826006	estimated_end	16738006
	located_end	16826006		
CH321-29N13 X	1459844	1547844	located_end	1459844
	estimated_end	1547844		
CH321-29N16 2L	22451182	22539182	located_end	22451182
	estimated_end	22539182		
CH321-29N18 3R	27441563	27529563	located_end	27441563
	estimated_end	27529563		
CH321-29N22 3LHet	1047302	1135302	located_end	1047302
	estimated_end	1135302		
CH321-29O01 2R	840811	928811	located_end	840811
	estimated_end	928811		
CH321-29O04 3L	2122001	2210001	estimated_end	2122001
	located_end	2210001		

CH321-29O05 2R	20565970	20653970	estimated_end	20565970
	located_end	20653970		
CH321-29O06 X	3265479	3353479	estimated_end	3265479
	located_end	3353479		
CH321-29O09 ArmU	3044292	3132292	estimated_end	3044292
	located_end	3132292		
CH321-29O10 3R	22125627	22213627	estimated_end	22125627
	located_end	22213627		
CH321-29O11 2L	5710237	5798237	estimated_end	5710237
	located_end	5798237		
CH321-29O12 2L	13533901	13621901	estimated_end	13533901
	located_end	13621901		
CH321-29O13 3R	15214096	15302096	estimated_end	15214096
	located_end	15302096		
CH321-29O17 2R	18491217	18579217	estimated_end	18491217
	located_end	18579217		
CH321-29O21 2R	7174716	7262716	located_end	7174716
	estimated_end	7262716		
CH321-29O22 2R	15831705	15919705	located_end	15831705
	estimated_end	15919705		
CH321-29P01 3R	25513287	25601287	located_end	25513287
	estimated_end	25601287		
CH321-29P03 X	7109833	7197833	located_end	7109833
	estimated_end	7197833		
CH321-29P04 2R	14895051	14983051	estimated_end	14895051
	located_end	14983051		
CH321-29P05 3R	319880	407880	located_end	319880
	estimated_end	407880		
CH321-29P06 X	18896933	18984933	located_end	18896933
	estimated_end	18984933		
CH321-29P08 3R	10102280	10190280	located_end	10102280
	estimated_end	10190280		
CH321-29P10 3R	21626246	21714246	located_end	21626246
	estimated_end	21714246		
CH321-29P11 3L	23001829	23089829	located_end	23001829
	estimated_end	23089829		
CH321-29P12 2R	14847374	14935374	estimated_end	14847374
	located_end	14935374		
CH321-29P16 2RHet	3211100	3299100	located_end	3211100
	estimated_end	3299100		
CH321-29P21 2L	10750189	10838189	estimated_end	10750189
	located_end	10838189		
CH321-30A09 2R	1372069	1460069	located_end	1372069
	estimated_end	1460069		
CH321-30A10 3L	17201314	17289314	estimated_end	17201314
	located_end	17289314		
CH321-30A20 2L	22496004	22584004	estimated_end	22496004
	located_end	22584004		
CH321-30A24 3R	15217586	15305586	located_end	15217586
	estimated_end	15305586		
CH321-30B09 X	367619	455619	located_end	367619
	estimated_end	455619		
CH321-30B11 2R	12084251	12172251	estimated_end	12084251
	located_end	12172251		

CH321-30B13 3R	2519289	2607289	located_end	2519289
	estimated_end	2607289		
CH321-30B19 3R	1721166	1809166	located_end	1721166
	estimated_end	1809166		
CH321-30B20 X	14731225	14819225	located_end	14731225
	estimated_end	14819225		
CH321-30C06 3R	24278037	24366037	located_end	24278037
	estimated_end	24366037		
CH321-30C07 2R	18477349	18565349	estimated_end	18477349
	located_end	18565349		
CH321-30C08 3R	21638770	21726770	located_end	21638770
	estimated_end	21726770		
CH321-30C16 3L	10545509	10633509	located_end	10545509
	estimated_end	10633509		
CH321-30C20 ArmU	3550856	3638856	located_end	3550856
	estimated_end	3638856		
CH321-30C21 2R	6894855	6982855	located_end	6894855
	estimated_end	6982855		
CH321-30C22 3L	4445046	4533046	estimated_end	4445046
	located_end	4533046		
CH321-30C23 3R	5842654	5930654	located_end	5842654
	estimated_end	5930654		
CH321-30D01 2L	19873878	19961878	estimated_end	19873878
	located_end	19961878		
CH321-30D02 2RHet	2157495	2245495	estimated_end	2157495
	located_end	2245495		
CH321-30D03 2L	4356514	4444514	estimated_end	4356514
	located_end	4444514		
CH321-30D09 3R	21794438	21882438	estimated_end	21794438
	located_end	21882438		
CH321-30D10 2L	16301300	16389300	located_end	16301300
	estimated_end	16389300		
CH321-30D12 2L	13833937	13921937	estimated_end	13833937
	located_end	13921937		
CH321-30D14 2L	11631226	11719226	located_end	11631226
	estimated_end	11719226		
CH321-30D15 2L	10925897	11013897	located_end	10925897
	estimated_end	11013897		
CH321-30D16 3R	20622396	20710396	located_end	20622396
	estimated_end	20710396		
CH321-30D17 X	13587870	13675870	located_end	13587870
	estimated_end	13675870		
CH321-30D18 X	10355327	10443327	located_end	10355327
	estimated_end	10443327		
CH321-30D19 2L	10958781	11046781	estimated_end	10958781
	located_end	11046781		
CH321-30D21 3L	21841664	21929664	located_end	21841664
	estimated_end	21929664		
CH321-30D22 2R	7639589	7727589	located_end	7639589
	estimated_end	7727589		
CH321-30E03 3R	12144028	12232028	estimated_end	12144028
	located_end	12232028		
CH321-30E05 3R	25451588	25539588	estimated_end	25451588
	located_end	25539588		

CH321-30E06 2R	4238465	4326465	located_end	4238465
	estimated_end	4326465		
CH321-30E12 X	4902746	4990746	located_end	4902746
	estimated_end	4990746		
CH321-30E13 ArmU	1260728	1348728	located_end	1260728
	estimated_end	1348728		
CH321-30E16 X	16890432	16978432	located_end	16890432
	estimated_end	16978432		
CH321-30E17 2L	21197012	21285012	estimated_end	21197012
	located_end	21285012		
CH321-30E19 X	4012161	4100161	estimated_end	4012161
	located_end	4100161		
CH321-30E22 X	9466950	9554950	estimated_end	9466950
	located_end	9554950		
CH321-30F03 X	11059204	11147204	located_end	11059204
	estimated_end	11147204		
CH321-30F04 2L	13636996	13724996	located_end	13636996
	estimated_end	13724996		
CH321-30F10 2R	9444621	9532621	located_end	9444621
	estimated_end	9532621		
CH321-30F17 ArmU	5887849	5975849	located_end	5887849
	estimated_end	5975849		
CH321-30F18 2L	19299397	19387397	estimated_end	19299397
	located_end	19387397		
CH321-30F20 2L	9060871	9148871	located_end	9060871
	estimated_end	9148871		
CH321-30G02 3L	620317	708317	located_end	620317
	estimated_end	708317		
CH321-30G04 X	7224693	7312693	located_end	7224693
	estimated_end	7312693		
CH321-30G06 3L	7147701	7235701	estimated_end	7147701
	located_end	7235701		
CH321-30G07 3L	23331982	23419982	located_end	23331982
	estimated_end	23419982		
CH321-30G08 2L	18167009	18255009	estimated_end	18167009
	located_end	18255009		
CH321-30G12 ArmU	4391926	4479926	estimated_end	4391926
	located_end	4479926		
CH321-30G13 X	12838382	12926382	located_end	12838382
	estimated_end	12926382		
CH321-30G14 X	3848576	3936576	located_end	3848576
	estimated_end	3936576		
CH321-30G19 3R	7647587	7735587	located_end	7647587
	estimated_end	7735587		
CH321-30G20 2L	14524266	14612266	estimated_end	14524266
	located_end	14612266		
CH321-30G22 2R	15416158	15504158	located_end	15416158
	estimated_end	15504158		
CH321-30H05 2RHet	1535043	1623043	estimated_end	1535043
	located_end	1623043		
CH321-30H06 X	397479	485479	estimated_end	397479
	located_end	485479		
CH321-30H09 3L	2691017	2779017	estimated_end	2691017
	located_end	2779017		

CH321-30H11 ArmU	1253623	1341623	located_end	1253623
estimated_end	1341623			
CH321-30H12 2R	9872566	9960566	estimated_end	9872566
located_end	9960566			
CH321-30H14 3L	9788204	9876204	located_end	9788204
estimated_end	9876204			
CH321-30H19 3L	12255136	12343136	located_end	12255136
estimated_end	12343136			
CH321-30H21 3R	21633074	21721074	estimated_end	21633074
located_end	21721074			
CH321-30I01 2L	10804913	10892913	estimated_end	10804913
located_end	10892913			
CH321-30I03 2R	15599646	15687646	estimated_end	15599646
located_end	15687646			
CH321-30I05 X	16102085	16190085	located_end	16102085
estimated_end	16190085			
CH321-30I06 3L	13672416	13760416	estimated_end	13672416
located_end	13760416			
CH321-30I11 3L	5186413	5274413	located_end	5186413
estimated_end	5274413			
CH321-30I12 3R	22240450	22328450	located_end	22240450
estimated_end	22328450			
CH321-30I13 2L	3244542	3332542	located_end	3244542
estimated_end	3332542			
CH321-30I16 2RHet	152209	240209	located_end	152209
estimated_end	240209			
CH321-30I21 3R	20727308	20815308	located_end	20727308
estimated_end	20815308			
CH321-30J04 2R	11482378	11570378	located_end	11482378
estimated_end	11570378			
CH321-30J05 3L	13259208	13347208	located_end	13259208
estimated_end	13347208			
CH321-30J06 2R	9922751	10010751	located_end	9922751
estimated_end	10010751			
CH321-30J08 3L	15251297	15339297	estimated_end	15251297
located_end	15339297			
CH321-30J09 3R	20955050	21043050	located_end	20955050
estimated_end	21043050			
CH321-30J11 3R	14779802	14867802	estimated_end	14779802
located_end	14867802			
CH321-30J12 3L	9421930	9509930	located_end	9421930
estimated_end	9509930			
CH321-30J16 3R	22080978	22168978	estimated_end	22080978
located_end	22168978			
CH321-30J21 3R	14344088	14432088	estimated_end	14344088
located_end	14432088			
CH321-30K01 2L	3232534	3320534	located_end	3232534
estimated_end	3320534			
CH321-30K05 3L	17964714	18052714	located_end	17964714
estimated_end	18052714			
CH321-30K12 3R	9434938	9522938	estimated_end	9434938
located_end	9522938			
CH321-30K13 2L	1198263	1286263	estimated_end	1198263
located_end	1286263			

CH321-30K14 2R	2765164	2853164	located_end	2765164
	estimated_end	2853164		
CH321-30K15 3L	345808	433808	estimated_end	345808
	located_end	433808		
CH321-30K17 2L	21905960	21993960	estimated_end	21905960
	located_end	21993960		
CH321-30K18 2L	7600845	7688845	estimated_end	7600845
	located_end	7688845		
CH321-30K19 2R	7176575	7264575	estimated_end	7176575
	located_end	7264575		
CH321-30K20 X	21757574	21845574	estimated_end	21757574
	located_end	21845574		
CH321-30L02 3R	7408181	7496181	located_end	7408181
	estimated_end	7496181		
CH321-30L03 X	3058162	3146162	located_end	3058162
	estimated_end	3146162		
CH321-30L04 3L	9434601	9522601	located_end	9434601
	estimated_end	9522601		
CH321-30L06 2R	1118635	1206635	estimated_end	1118635
	located_end	1206635		
CH321-30L07 X	2602233	2690233	estimated_end	2602233
	located_end	2690233		
CH321-30L08 X	10680398	10768398	located_end	10680398
	estimated_end	10768398		
CH321-30L09 2L	1231364	1319364	estimated_end	1231364
	located_end	1319364		
CH321-30L10 2L	7391216	7479216	estimated_end	7391216
	located_end	7479216		
CH321-30L12 2R	11629890	11717890	estimated_end	11629890
	located_end	11717890		
CH321-30L16 3R	15279129	15367129	estimated_end	15279129
	located_end	15367129		
CH321-30L17 X	21383043	21471043	located_end	21383043
	estimated_end	21471043		
CH321-30L18 2L	21878682	21966682	located_end	21878682
	estimated_end	21966682		
CH321-30L22 2R	12248876	12336876	located_end	12248876
	estimated_end	12336876		
CH321-30M06 3L	22965022	23053022	located_end	22965022
	estimated_end	23053022		
CH321-30M08 2R	167655	255655	located_end	167655
	estimated_end	255655		
CH321-30M10 3RHet	907120	995120	located_end	907120
	estimated_end	995120		
CH321-30M11 2R	3230842	3318842	estimated_end	3230842
	located_end	3318842		
CH321-30M12 ArmU	1266701	1354701	estimated_end	1266701
	located_end	1354701		
CH321-30M14 2L	21951204	22039204	estimated_end	21951204
	located_end	22039204		
CH321-30M16 X	9576112	9664112	estimated_end	9576112
	located_end	9664112		
CH321-30M18 3R	16553155	16641155	estimated_end	16553155
	located_end	16641155		

CH321-30M20 3L	14078941	14166941	estimated_end	14078941
	located_end	14166941		
CH321-30M23 3L	545215	633215	located_end	545215
	estimated_end	633215		
CH321-30M24 2L	13710139	13798139	located_end	13710139
	estimated_end	13798139		
CH321-30N01 3R	17011700	17099700	estimated_end	17011700
	located_end	17099700		
CH321-30N02 3R	2691695	2779695	estimated_end	2691695
	located_end	2779695		
CH321-30N03 2L	5406090	5494090	estimated_end	5406090
	located_end	5494090		
CH321-30N04 2L	18968891	19056891	located_end	18968891
	estimated_end	19056891		
CH321-30N06 ArmU	362382	450382	located_end	362382
	estimated_end	450382		
CH321-30N07 3R	21614976	21702976	estimated_end	21614976
	located_end	21702976		
CH321-30N09 2R	4673045	4761045	estimated_end	4673045
	located_end	4761045		
CH321-30N10 X	12247281	12335281	estimated_end	12247281
	located_end	12335281		
CH321-30N11 ArmU	5112350	5200350	estimated_end	5112350
	located_end	5200350		
CH321-30N12 2RHet	1865948	1953948	estimated_end	1865948
	located_end	1953948		
CH321-30N15 2L	3949446	4037446	estimated_end	3949446
	located_end	4037446		
CH321-30N17 3L	19707335	19795335	estimated_end	19707335
	located_end	19795335		
CH321-30N18 3L	3759700	3847700	estimated_end	3759700
	located_end	3847700		
CH321-30N20 2L	13466090	13554090	located_end	13466090
	estimated_end	13554090		
CH321-30N22 3R	13605617	13693617	located_end	13605617
	estimated_end	13693617		
CH321-30N23 3R	20624388	20712388	located_end	20624388
	estimated_end	20712388		
CH321-30N24 3L	6811733	6899733	located_end	6811733
	estimated_end	6899733		
CH321-30O03 2L	19400757	19488757	estimated_end	19400757
	located_end	19488757		
CH321-30O05 3L	11816631	11904631	estimated_end	11816631
	located_end	11904631		
CH321-30O06 2L	7502733	7590733	estimated_end	7502733
	located_end	7590733		
CH321-30O08 2L	18579723	18667723	estimated_end	18579723
	located_end	18667723		
CH321-30O11 X	9264985	9352985	located_end	9264985
	estimated_end	9352985		
CH321-30O12 X	18421547	18509547	located_end	18421547
	estimated_end	18509547		
CH321-30O20 3R	4663136	4751136	estimated_end	4663136
	located_end	4751136		

CH321-30O23 2L	4099154	4187154	estimated_end	4099154
	located_end	4187154		
CH321-30P01 2R	4471478	4559478	estimated_end	4471478
	located_end	4559478		
CH321-30P02 2L	19891267	19979267	estimated_end	19891267
	located_end	19979267		
CH321-30P03 2L	17228885	17316885	located_end	17228885
	estimated_end	17316885		
CH321-30P04 X	11971793	12059793	located_end	11971793
	estimated_end	12059793		
CH321-30P07 3R	18647016	18735016	estimated_end	18647016
	located_end	18735016		
CH321-30P08 X	18293017	18381017	estimated_end	18293017
	located_end	18381017		
CH321-30P09 3R	21240494	21328494	estimated_end	21240494
	located_end	21328494		
CH321-30P10 2L	10406198	10494198	located_end	10406198
	estimated_end	10494198		
CH321-30P12 2R	17113097	17201097	estimated_end	17113097
	located_end	17201097		
CH321-30P13 2R	16232820	16320820	estimated_end	16232820
	located_end	16320820		
CH321-30P16 3L	5144265	5232265	located_end	5144265
	estimated_end	5232265		
CH321-30P20 3L	15269576	15357576	located_end	15269576
	estimated_end	15357576		
CH321-30P21 2L	7602107	7690107	estimated_end	7602107
	located_end	7690107		
CH321-31A04 3R	19599579	19687579	estimated_end	19599579
	located_end	19687579		
CH321-31A05 2R	107976	195976	estimated_end	107976
	located_end	195976		
CH321-31A06 3LHet	-46490	41510	estimated_end	-46490
	located_end	41510		
CH321-31A07 X	11276036	11364036	located_end	11276036
	estimated_end	11364036		
CH321-31A09 X	4278980	4366980	estimated_end	4278980
	located_end	4366980		
CH321-31A13 3R	13982298	14070298	located_end	13982298
	estimated_end	14070298		
CH321-31A15 3R	6936101	7024101	estimated_end	6936101
	located_end	7024101		
CH321-31A16 X	11372483	11460483	located_end	11372483
	estimated_end	11460483		
CH321-31A18 3L	7798515	7886515	estimated_end	7798515
	located_end	7886515		
CH321-31A21 3R	13767296	13855296	estimated_end	13767296
	located_end	13855296		
CH321-31A23 3L	9614039	9702039	located_end	9614039
	estimated_end	9702039		
CH321-31A24 2L	16064786	16152786	located_end	16064786
	estimated_end	16152786		
CH321-31B01 3R	26017778	26105778	located_end	26017778
	estimated_end	26105778		

CH321-31B04 X	4468104	4556104	estimated_end	4468104
	located_end	4556104		
CH321-31B05 2R	10193428	10281428	estimated_end	10193428
	located_end	10281428		
CH321-31B06 3L	19162766	19250766	located_end	19162766
	estimated_end	19250766		
CH321-31B08 3L	7619236	7707236	located_end	7619236
	estimated_end	7707236		
CH321-31B09 2L	16527439	16615439	located_end	16527439
	estimated_end	16615439		
CH321-31B10 2L	4006235	4094235	estimated_end	4006235
	located_end	4094235		
CH321-31B11 3R	1993832	2081832	estimated_end	1993832
	located_end	2081832		
CH321-31B12 2R	13355015	13443015	estimated_end	13355015
	located_end	13443015		
CH321-31B13 3R	9259649	9347649	located_end	9259649
	estimated_end	9347649		
CH321-31B14 3L	12042491	12130491	estimated_end	12042491
	located_end	12130491		
CH321-31B15 2L	8037912	8125912	located_end	8037912
	estimated_end	8125912		
CH321-31B17 X	3958486	4046486	located_end	3958486
	estimated_end	4046486		
CH321-31B18 3R	13247127	13335127	estimated_end	13247127
	located_end	13335127		
CH321-31B20 3R	16256565	16344565	estimated_end	16256565
	located_end	16344565		
CH321-31B22 2R	8168617	8256617	estimated_end	8168617
	located_end	8256617		
CH321-31B23 3R	5335333	5423333	located_end	5335333
	estimated_end	5423333		
CH321-31B24 3L	16616953	16704953	estimated_end	16616953
	located_end	16704953		
CH321-31C01 3L	8201218	8289218	estimated_end	8201218
	located_end	8289218		
CH321-31C03 3R	7401144	7489144	located_end	7401144
	estimated_end	7489144		
CH321-31C05 3R	13533829	13621829	estimated_end	13533829
	located_end	13621829		
CH321-31C06 X	10315303	10403303	located_end	10315303
	estimated_end	10403303		
CH321-31C14 3L	11406732	11494732	located_end	11406732
	estimated_end	11494732		
CH321-31C15 3R	4604552	4692552	located_end	4604552
	estimated_end	4692552		
CH321-31C19 3L	18591546	18679546	estimated_end	18591546
	located_end	18679546		
CH321-31C20 3R	19753217	19841217	estimated_end	19753217
	located_end	19841217		
CH321-31C22 X	4022017	4110017	estimated_end	4022017
	located_end	4110017		
CH321-31C23 3R	9506277	9594277	estimated_end	9506277
	located_end	9594277		

CH321-31D01 2L	8286662	8374662	estimated_end	8286662
	located_end	8374662		
CH321-31D06 2L	2043617	2131617	located_end	2043617
	estimated_end	2131617		
CH321-31D07 3L	9211750	9299750	estimated_end	9211750
	located_end	9299750		
CH321-31D12 2R	11709432	11797432	located_end	11709432
	estimated_end	11797432		
CH321-31D13 2R	13731906	13819906	estimated_end	13731906
	located_end	13819906		
CH321-31D14 3R	17609762	17697762	estimated_end	17609762
	located_end	17697762		
CH321-31D15 3L	6866854	6954854	located_end	6866854
	estimated_end	6954854		
CH321-31D18 3R	4152555	4240555	located_end	4152555
	estimated_end	4240555		
CH321-31D19 2R	15271805	15359805	estimated_end	15271805
	located_end	15359805		
CH321-31D20 2L	17270169	17358169	estimated_end	17270169
	located_end	17358169		
CH321-31D21 3R	1891941	1979941	estimated_end	1891941
	located_end	1979941		
CH321-31D22 2L	22105709	22193709	located_end	22105709
	estimated_end	22193709		
CH321-31D23 X	8086116	8174116	located_end	8086116
	estimated_end	8174116		
CH321-31D24 3R	4905023	4993023	located_end	4905023
	estimated_end	4993023		
CH321-31E01 2R	20726676	20814676	estimated_end	20726676
	located_end	20814676		
CH321-31E04 3R	17356316	17444316	located_end	17356316
	estimated_end	17444316		
CH321-31E05 3L	7729539	7817539	estimated_end	7729539
	located_end	7817539		
CH321-31E06 3R	24077650	24165650	estimated_end	24077650
	located_end	24165650		
CH321-31E10 3R	6684249	6772249	located_end	6684249
	estimated_end	6772249		
CH321-31E11 3L	9042696	9130696	estimated_end	9042696
	located_end	9130696		
CH321-31E13 3R	12599624	12687624	estimated_end	12599624
	located_end	12687624		
CH321-31E14 2L	6790840	6878840	located_end	6790840
	estimated_end	6878840		
CH321-31E18 2L	5216001	5304001	estimated_end	5216001
	located_end	5304001		
CH321-31E22 2R	10253711	10341711	estimated_end	10253711
	located_end	10341711		
CH321-31F01 3R	19343606	19431606	estimated_end	19343606
	located_end	19431606		
CH321-31F02 2R	9492168	9580168	estimated_end	9492168
	located_end	9580168		
CH321-31F03 2L	9608807	9696807	estimated_end	9608807
	located_end	9696807		

CH321-31F05 2R	18822672	18910672	located_end	18822672
	estimated_end	18910672		
CH321-31F11 3R	11731150	11819150	estimated_end	11731150
	located_end	11819150		
CH321-31F12 2L	21297595	21385595	estimated_end	21297595
	located_end	21385595		
CH321-31F13 2R	9718405	9806405	located_end	9718405
	estimated_end	9806405		
CH321-31F14 2R	7597400	7685400	estimated_end	7597400
	located_end	7685400		
CH321-31F15 3R	11609478	11697478	located_end	11609478
	estimated_end	11697478		
CH321-31F16 2L	16970894	17058894	located_end	16970894
	estimated_end	17058894		
CH321-31F18 X	7295648	7383648	estimated_end	7295648
	located_end	7383648		
CH321-31F20 2R	17516756	17604756	located_end	17516756
	estimated_end	17604756		
CH321-31F21 2L	15075543	15163543	estimated_end	15075543
	located_end	15163543		
CH321-31G03 2R	5871322	5959322	located_end	5871322
	estimated_end	5959322		
CH321-31G12 X	4567813	4655813	located_end	4567813
	estimated_end	4655813		
CH321-31G16 X	6048996	6136996	estimated_end	6048996
	located_end	6136996		
CH321-31G17 3L	6145729	6233729	estimated_end	6145729
	located_end	6233729		
CH321-31G18 3R	18749823	18837823	estimated_end	18749823
	located_end	18837823		
CH321-31G21 3L	9629125	9717125	estimated_end	9629125
	located_end	9717125		
CH321-31G22 3L	12039222	12127222	located_end	12039222
	estimated_end	12127222		
CH321-31H02 X	19029659	19117659	located_end	19029659
	estimated_end	19117659		
CH321-31H04 2R	2507782	2595782	located_end	2507782
	estimated_end	2595782		
CH321-31H05 2R	11562467	11650467	estimated_end	11562467
	located_end	11650467		
CH321-31H07 X	21802439	21890439	located_end	21802439
	estimated_end	21890439		
CH321-31H09 3R	13055472	13143472	estimated_end	13055472
	located_end	13143472		
CH321-31H10 2L	8747197	8835197	estimated_end	8747197
	located_end	8835197		
CH321-31H12 2L	19933077	20021077	located_end	19933077
	estimated_end	20021077		
CH321-31H14 2R	9470074	9558074	estimated_end	9470074
	located_end	9558074		
CH321-31H16 X	17851920	17939920	estimated_end	17851920
	located_end	17939920		
CH321-31H18 3R	15132071	15220071	located_end	15132071
	estimated_end	15220071		

CH321-31H21 2R	17252101	17340101	located_end	17252101
	estimated_end	17340101		
CH321-31I02 3R	16100280	16188280	estimated_end	16100280
	located_end	16188280		
CH321-31I03 3R	26105193	26193193	located_end	26105193
	estimated_end	26193193		
CH321-31I04 3L	2652785	2740785	located_end	2652785
	estimated_end	2740785		
CH321-31I05 3L	4531979	4619979	estimated_end	4531979
	located_end	4619979		
CH321-31I06 3L	23779590	23867590	estimated_end	23779590
	located_end	23867590		
CH321-31I07 2L	17223444	17311444	estimated_end	17223444
	located_end	17311444		
CH321-31I09 3R	19421659	19509659	estimated_end	19421659
	located_end	19509659		
CH321-31I10 X	6651943	6739943	estimated_end	6651943
	located_end	6739943		
CH321-31I11 3L	7176226	7264226	estimated_end	7176226
	located_end	7264226		
CH321-31I13 3R	3742028	3830028	estimated_end	3742028
	located_end	3830028		
CH321-31I15 X	17176103	17264103	located_end	17176103
	estimated_end	17264103		
CH321-31I17 2R	14597884	14685884	located_end	14597884
	estimated_end	14685884		
CH321-31J03 2R	12502706	12590706	estimated_end	12502706
	located_end	12590706		
CH321-31J04 3R	16101559	16189559	located_end	16101559
	estimated_end	16189559		
CH321-31J06 3L	19115393	19203393	estimated_end	19115393
	located_end	19203393		
CH321-31J11 2L	21321873	21409873	located_end	21321873
	estimated_end	21409873		
CH321-31J12 2R	3929326	4017326	located_end	3929326
	estimated_end	4017326		
CH321-31J19 2L	2516975	2604975	estimated_end	2516975
	located_end	2604975		
CH321-31J22 2R	16591977	16679977	located_end	16591977
	estimated_end	16679977		
CH321-31K04 3L	19132985	19220985	estimated_end	19132985
	located_end	19220985		
CH321-31K06 3L	13287900	13375900	estimated_end	13287900
	located_end	13375900		
CH321-31K07 3L	2798247	2886247	estimated_end	2798247
	located_end	2886247		
CH321-31K08 3LHet	1758492	1846492	located_end	1758492
	estimated_end	1846492		
CH321-31K12 2R	20245589	20333589	estimated_end	20245589
	located_end	20333589		
CH321-31K13 3R	11776149	11864149	located_end	11776149
	estimated_end	11864149		
CH321-31K14 2R	18753662	18841662	estimated_end	18753662
	located_end	18841662		

CH321-31K16 2L	1033912	1121912	estimated_end	1033912
	located_end	1121912		
CH321-31K17 3L	8863338	8951338	located_end	8863338
	estimated_end	8951338		
CH321-31K21 3R	24069235	24157235	estimated_end	24069235
	located_end	24157235		
CH321-31K23 3RHet	1028360	1116360	located_end	1028360
	estimated_end	1116360		
CH321-31K24 2L	20535085	20623085	located_end	20535085
	estimated_end	20623085		
CH321-31L06 2L	18189380	18277380	located_end	18189380
	estimated_end	18277380		
CH321-31L08 X	5130711	5218711	located_end	5130711
	estimated_end	5218711		
CH321-31L11 2R	13843389	13931389	located_end	13843389
	estimated_end	13931389		
CH321-31L12 X	6147029	6235029	located_end	6147029
	estimated_end	6235029		
CH321-31L13 X	6554693	6642693	located_end	6554693
	estimated_end	6642693		
CH321-31L14 2R	9580774	9668774	located_end	9580774
	estimated_end	9668774		
CH321-31L15 3L	7230270	7318270	estimated_end	7230270
	located_end	7318270		
CH321-31L16 2L	14940062	15028062	estimated_end	14940062
	located_end	15028062		
CH321-31L17 2R	15331073	15419073	located_end	15331073
	estimated_end	15419073		
CH321-31L19 X	10869217	10957217	estimated_end	10869217
	located_end	10957217		
CH321-31L20 2R	8123781	8211781	estimated_end	8123781
	located_end	8211781		
CH321-31L21 2L	18615933	18703933	estimated_end	18615933
	located_end	18703933		
CH321-31L22 3L	20217845	20305845	estimated_end	20217845
	located_end	20305845		
CH321-31M01 2L	11885929	11973929	located_end	11885929
	estimated_end	11973929		
CH321-31M02 3R	6348324	6436324	located_end	6348324
	estimated_end	6436324		
CH321-31M04 2L	1540672	1628672	located_end	1540672
	estimated_end	1628672		
CH321-31M12 2L	1935639	2023639	located_end	1935639
	estimated_end	2023639		
CH321-31M15 3R	25678228	25766228	located_end	25678228
	estimated_end	25766228		
CH321-31M16 2RHet	303632	391632	estimated_end	303632
	located_end	391632		
CH321-31M17 3R	2885326	2973326	located_end	2885326
	estimated_end	2973326		
CH321-31M18 3R	6618755	6706755	located_end	6618755
	estimated_end	6706755		
CH321-31M19 3L	19139410	19227410	located_end	19139410
	estimated_end	19227410		

CH321-31M20 3R	10213135	10301135	estimated_end	10213135
	located_end	10301135		
CH321-31M21 2R	4339463	4427463	located_end	4339463
	estimated_end	4427463		
CH321-31M23 2R	20085776	20173776	located_end	20085776
	estimated_end	20173776		
CH321-31N01 X	2598150	2686150	estimated_end	2598150
	located_end	2686150		
CH321-31N02 2L	22830399	22918399	estimated_end	22830399
	located_end	22918399		
CH321-31N09 2R	4688146	4776146	located_end	4688146
	estimated_end	4776146		
CH321-31N12 3R	4656113	4744113	located_end	4656113
	estimated_end	4744113		
CH321-31N13 2L	7617243	7705243	located_end	7617243
	estimated_end	7705243		
CH321-31N15 3R	11538604	11626604	estimated_end	11538604
	located_end	11626604		
CH321-31N16 2R	2687457	2775457	estimated_end	2687457
	located_end	2775457		
CH321-31N18 3L	4846725	4934725	estimated_end	4846725
	located_end	4934725		
CH321-31N19 2R	7038348	7126348	located_end	7038348
	estimated_end	7126348		
CH321-31N21 X	11299236	11387236	located_end	11299236
	estimated_end	11387236		
CH321-31N23 2R	2607286	2695286	estimated_end	2607286
	located_end	2695286		
CH321-31N24 X	9178607	9266607	estimated_end	9178607
	located_end	9266607		
CH321-31O01 2L	7596963	7684963	estimated_end	7596963
	located_end	7684963		
CH321-31O04 3L	19277833	19365833	located_end	19277833
	estimated_end	19365833		
CH321-31O15 2L	213122	301122	located_end	213122
	estimated_end	301122		
CH321-31O16 ArmU	1973239	2061239	located_end	1973239
	estimated_end	2061239		
CH321-31O17 2L	2299663	2387663	estimated_end	2299663
	located_end	2387663		
CH321-31O18 2R	16120636	16208636	located_end	16120636
	estimated_end	16208636		
CH321-31O20 2R	11573138	11661138	estimated_end	11573138
	located_end	11661138		
CH321-31O22 2L	11706627	11794627	estimated_end	11706627
	located_end	11794627		
CH321-31O23 ArmU	6774225	6862225	estimated_end	6774225
	located_end	6862225		
CH321-31P03 2L	15675	103675	located_end	15675
	103675		estimated_end	
CH321-31P15 2R	15295349	15383349	located_end	15295349
	estimated_end	15383349		
CH321-32A07 3L	8546532	8634532	located_end	8546532
	estimated_end	8634532		

CH321-32A10 3R	1115454	1203454	located_end	1115454
	estimated_end	1203454		
CH321-32A11 3R	15991399	16079399	located_end	15991399
	estimated_end	16079399		
CH321-32A16 3R	4136905	4224905	located_end	4136905
	estimated_end	4224905		
CH321-32A19 3L	11732876	11820876	located_end	11732876
	estimated_end	11820876		
CH321-32A22 3L	13999619	14087619	estimated_end	13999619
	located_end	14087619		
CH321-32A23 3R	10530814	10618814	estimated_end	10530814
	located_end	10618814		
CH321-32A24 2L	1032764	1120764	located_end	1032764
	estimated_end	1120764		
CH321-32B08 2L	22180814	22268814	located_end	22180814
	estimated_end	22268814		
CH321-32B10 3R	23517047	23605047	located_end	23517047
	estimated_end	23605047		
CH321-32B14 3R	9340272	9428272	estimated_end	9340272
	located_end	9428272		
CH321-32B17 2L	13835144	13923144	estimated_end	13835144
	located_end	13923144		
CH321-32B18 2L	10330306	10418306	estimated_end	10330306
	located_end	10418306		
CH321-32B20 2RHet	1986131	2074131	located_end	1986131
	estimated_end	2074131		
CH321-32B23 3L	6522142	6610142	estimated_end	6522142
	located_end	6610142		
CH321-32B24 3L	11097261	11185261	located_end	11097261
	estimated_end	11185261		
CH321-32C06 3R	9617699	9705699	estimated_end	9617699
	located_end	9705699		
CH321-32C10 X	14680226	14768226	located_end	14680226
	estimated_end	14768226		
CH321-32C11 3R	19304543	19392543	located_end	19304543
	estimated_end	19392543		
CH321-32C16 ArmU	5610689	5698689	estimated_end	5610689
	located_end	5698689		
CH321-32C24 3R	18898376	18986376	located_end	18898376
	estimated_end	18986376		
CH321-32D02 3R	5712560	5800560	estimated_end	5712560
	located_end	5800560		
CH321-32D07 2L	6264857	6352857	located_end	6264857
	estimated_end	6352857		
CH321-32D09 3R	13154473	13242473	located_end	13154473
	estimated_end	13242473		
CH321-32D12 X	18107860	18195860	located_end	18107860
	estimated_end	18195860		
CH321-32D14 3L	10440415	10528415	estimated_end	10440415
	located_end	10528415		
CH321-32D15 3R	9826936	9914936	located_end	9826936
	estimated_end	9914936		
CH321-32D17 3R	4665117	4753117	located_end	4665117
	estimated_end	4753117		

CH321-32D18 X	12845696	12933696	estimated_end	12845696
	located_end	12933696		
CH321-32D20 ArmU	2532819	2620819	located_end	2532819
	estimated_end	2620819		
CH321-32D21 2L	2449322	2537322	located_end	2449322
	estimated_end	2537322		
CH321-32E04 2RHet	1324816	1412816	estimated_end	1324816
	located_end	1412816		
CH321-32E10 2R	5917357	6005357	located_end	5917357
	estimated_end	6005357		
CH321-32E24 3R	9975895	10063895	located_end	9975895
	estimated_end	10063895		
CH321-32F01 3L	22913945	23001945	estimated_end	22913945
	located_end	23001945		
CH321-32F02 2R	5356497	5444497	located_end	5356497
	estimated_end	5444497		
CH321-32F04 2R	6024086	6112086	located_end	6024086
	estimated_end	6112086		
CH321-32F05 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-32F11 3L	2117249	2205249	located_end	2117249
	estimated_end	2205249		
CH321-32F22 X	15770040	15858040	estimated_end	15770040
	located_end	15858040		
CH321-32G02 X	13796315	13884315	estimated_end	13796315
	located_end	13884315		
CH321-32G08 2R	3009071	3097071	estimated_end	3009071
	located_end	3097071		
CH321-32G09 3L	4996807	5084807	located_end	4996807
	estimated_end	5084807		
CH321-32G12 2R	5781583	5869583	located_end	5781583
	estimated_end	5869583		
CH321-32G14 3R	22095071	22183071	located_end	22095071
	estimated_end	22183071		
CH321-32G24 2L	7152406	7240406	estimated_end	7152406
	located_end	7240406		
CH321-32H04 3L	8191858	8279858	estimated_end	8191858
	located_end	8279858		
CH321-32H06 3L	15138885	15226885	estimated_end	15138885
	located_end	15226885		
CH321-32H13 2R	5964181	6052181	located_end	5964181
	estimated_end	6052181		
CH321-32H19 3R	6907059	6995059	located_end	6907059
	estimated_end	6995059		
CH321-32H21 2L	16826446	16914446	estimated_end	16826446
	located_end	16914446		
CH321-32H22 3R	8310765	8398765	estimated_end	8310765
	located_end	8398765		
CH321-32I01 2R	11122428	11210428	estimated_end	11122428
	located_end	11210428		
CH321-32I06 3L	2924444	3012444	estimated_end	2924444
	located_end	3012444		
CH321-32I10 X	11468458	11556458	located_end	11468458
	estimated_end	11556458		

CH321-32I16 3R	26045968	26133968	located_end	26045968
	estimated_end	26133968		
CH321-32I22 3L	15616256	15704256	located_end	15616256
	estimated_end	15704256		
CH321-32I24 3L	14214199	14302199	estimated_end	14214199
	located_end	14302199		
CH321-32J03 3R	20066771	20154771	located_end	20066771
	estimated_end	20154771		
CH321-32J06 3R	18497580	18585580	located_end	18497580
	estimated_end	18585580		
CH321-32J11 3R	13897715	13985715	estimated_end	13897715
	located_end	13985715		
CH321-32J12 3L	15567191	15655191	located_end	15567191
	estimated_end	15655191		
CH321-32J22 3R	11839615	11927615	estimated_end	11839615
	located_end	11927615		
CH321-32K05 3R	11286885	11374885	estimated_end	11286885
	located_end	11374885		
CH321-32K07 2L	16558486	16646486	estimated_end	16558486
	located_end	16646486		
CH321-32K09 3R	5954099	6042099	located_end	5954099
	estimated_end	6042099		
CH321-32K12 3L	1828280	1916280	estimated_end	1828280
	located_end	1916280		
CH321-32K15 2L	19539431	19627431	estimated_end	19539431
	located_end	19627431		
CH321-32K16 3L	21839349	21927349	estimated_end	21839349
	located_end	21927349		
CH321-32L05 2R	16414459	16502459	located_end	16414459
	estimated_end	16502459		
CH321-32L08 2L	14908595	14996595	located_end	14908595
	estimated_end	14996595		
CH321-32L09 X	13733831	13821831	located_end	13733831
	estimated_end	13821831		
CH321-32L11 2L	7227311	7315311	located_end	7227311
	estimated_end	7315311		
CH321-32L13 2L	14472068	14560068	located_end	14472068
	estimated_end	14560068		
CH321-32L14 2R	4027005	4115005	located_end	4027005
	estimated_end	4115005		
CH321-32L17 3R	16973114	17061114	estimated_end	16973114
	located_end	17061114		
CH321-32L20 3L	7966525	8054525	located_end	7966525
	estimated_end	8054525		
CH321-32L22 3L	12156195	12244195	located_end	12156195
	estimated_end	12244195		
CH321-32L24 ArmU	9707959	9795959	estimated_end	9707959
	located_end	9795959		
CH321-32M01 3L	11166414	11254414	located_end	11166414
	estimated_end	11254414		
CH321-32M06 3R	1962422	2050422	located_end	1962422
	estimated_end	2050422		
CH321-32M12 2R	14727758	14815758	estimated_end	14727758
	located_end	14815758		

CH321-32M17 3R	26422853	26510853	located_end	26422853
	estimated_end	26510853		
CH321-32M22 3L	12000122	12088122	estimated_end	12000122
	located_end	12088122		
CH321-32N02 2L	4232834	4320834	estimated_end	4232834
	located_end	4320834		
CH321-32N04 2L	2651432	2739432	located_end	2651432
	estimated_end	2739432		
CH321-32N08 2L	5270244	5358244	located_end	5270244
	estimated_end	5358244		
CH321-32N10 2L	11285664	11373664	estimated_end	11285664
	located_end	11373664		
CH321-32N11 2L	7824074	7912074	located_end	7824074
	estimated_end	7912074		
CH321-32N12 ArmU	2427547	2515547	located_end	2427547
	estimated_end	2515547		
CH321-32N14 X	1620813	1708813	estimated_end	1620813
	located_end	1708813		
CH321-32O08 3L	20435214	20523214	located_end	20435214
	estimated_end	20523214		
CH321-32O24 2R	941786	1029786	estimated_end	941786
	located_end	1029786		
CH321-32P05 4	296526	384526	located_end	296526
	estimated_end	384526		
CH321-32P08 3R	16487713	16575713	located_end	16487713
	estimated_end	16575713		
CH321-32P16 3R	7624156	7712156	located_end	7624156
	estimated_end	7712156		
CH321-32P19 3L	6344110	6432110	located_end	6344110
	estimated_end	6432110		
CH321-32P20 3R	17577394	17665394	estimated_end	17577394
	located_end	17665394		
CH321-32P21 3L	7150573	7238573	estimated_end	7150573
	located_end	7238573		
CH321-32P22 3L	23167991	23255991	estimated_end	23167991
	located_end	23255991		
CH321-33A09 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-33A11 2L	3235225	3323225	estimated_end	3235225
	located_end	3323225		
CH321-33A12 2R	7477985	7565985	located_end	7477985
	estimated_end	7565985		
CH321-33A13 3R	14673505	14761505	located_end	14673505
	estimated_end	14761505		
CH321-33A23 2L	466633	554633	estimated_end	466633
	located_end	554633		
CH321-33B03 ArmU	5495404	5583404	estimated_end	5495404
	located_end	5583404		
CH321-33B08 2R	4670244	4758244	estimated_end	4670244
	located_end	4758244		
CH321-33B09 X	2848569	2936569	estimated_end	2848569
	located_end	2936569		
CH321-33B11 3L	9946049	10034049	estimated_end	9946049
	located_end	10034049		

CH321-33B13 2L	6804493	6892493	located_end	6804493
	estimated_end	6892493		
CH321-33B15 3L	7788803	7876803	estimated_end	7788803
	located_end	7876803		
CH321-33B16 3R	25118932	25206932	located_end	25118932
	estimated_end	25206932		
CH321-33B18 3R	12718813	12806813	located_end	12718813
	estimated_end	12806813		
CH321-33B20 2L	17342357	17430357	estimated_end	17342357
	located_end	17430357		
CH321-33B21 3L	10746564	10834564	estimated_end	10746564
	located_end	10834564		
CH321-33B24 2L	2879608	2967608	located_end	2879608
	estimated_end	2967608		
CH321-33C03 3L	2835141	2923141	located_end	2835141
	estimated_end	2923141		
CH321-33C04 2L	10359934	10447934	located_end	10359934
	estimated_end	10447934		
CH321-33C06 3L	23161213	23249213	estimated_end	23161213
	located_end	23249213		
CH321-33C07 2R	3596644	3684644	located_end	3596644
	estimated_end	3684644		
CH321-33C08 3L	12039569	12127569	estimated_end	12039569
	located_end	12127569		
CH321-33C11 3L	5552919	5640919	located_end	5552919
	estimated_end	5640919		
CH321-33C14 3L	3199457	3287457	estimated_end	3199457
	located_end	3287457		
CH321-33C16 2L	16490866	16578866	located_end	16490866
	estimated_end	16578866		
CH321-33D11 2L	17024142	17112142	estimated_end	17024142
	located_end	17112142		
CH321-33D15 2R	19302978	19390978	estimated_end	19302978
	located_end	19390978		
CH321-33D16 3R	27688830	27776830	estimated_end	27688830
	located_end	27776830		
CH321-33D17 3R	25532295	25620295	estimated_end	25532295
	located_end	25620295		
CH321-33D21 2L	10607242	10695242	estimated_end	10607242
	located_end	10695242		
CH321-33D24 3L	5602111	5690111	estimated_end	5602111
	located_end	5690111		
CH321-33E01 2R	13843905	13931905	estimated_end	13843905
	located_end	13931905		
CH321-33E05 2L	6170573	6258573	estimated_end	6170573
	located_end	6258573		
CH321-33E06 3L	19160099	19248099	located_end	19160099
	estimated_end	19248099		
CH321-33E07 2R	13393649	13481649	located_end	13393649
	estimated_end	13481649		
CH321-33E08 2L	13297709	13385709	located_end	13297709
	estimated_end	13385709		
CH321-33E10 3R	11267183	11355183	located_end	11267183
	estimated_end	11355183		

CH321-33E11 3R	22028939	22116939	located_end	22028939
	estimated_end	22116939		
CH321-33E12 2L	13312128	13400128	located_end	13312128
	estimated_end	13400128		
CH321-33E14 3L	3194606	3282606	located_end	3194606
	estimated_end	3282606		
CH321-33E19 3R	17747071	17835071	located_end	17747071
	estimated_end	17835071		
CH321-33E21 2R	11909951	11997951	estimated_end	11909951
	located_end	11997951		
CH321-33E23 2RHet	1910159	1998159	located_end	1910159
	estimated_end	1998159		
CH321-33E24 2R	16283679	16371679	located_end	16283679
	estimated_end	16371679		
CH321-33F02 3RHet	22077	110077	located_end	22077
	estimated_end	110077		
CH321-33F03 3R	3027657	3115657	located_end	3027657
	estimated_end	3115657		
CH321-33F06 2L	6220286	6308286	located_end	6220286
	estimated_end	6308286		
CH321-33F09 3R	19987793	20075793	estimated_end	19987793
	located_end	20075793		
CH321-33F10 2L	4738251	4826251	located_end	4738251
	estimated_end	4826251		
CH321-33F11 3R	4225192	4313192	located_end	4225192
	estimated_end	4313192		
CH321-33F15 4	666041	754041	located_end	666041
	estimated_end	754041		
CH321-33G05 2L	10796776	10884776	located_end	10796776
	estimated_end	10884776		
CH321-33G06 3R	15750738	15838738	estimated_end	15750738
	located_end	15838738		
CH321-33G07 3R	1353573	1441573	estimated_end	1353573
	located_end	1441573		
CH321-33G10 2L	724202	812202	estimated_end	724202
	located_end	812202		
CH321-33G11 3R	1034646	1122646	located_end	1034646
	estimated_end	1122646		
CH321-33G12 2L	13325202	13413202	estimated_end	13325202
	located_end	13413202		
CH321-33G13 2R	18851585	18939585	estimated_end	18851585
	located_end	18939585		
CH321-33G18 2R	5397822	5485822	located_end	5397822
	estimated_end	5485822		
CH321-33G19 3R	16505989	16593989	estimated_end	16505989
	located_end	16593989		
CH321-33G22 3R	18594762	18682762	located_end	18594762
	estimated_end	18682762		
CH321-33H05 3L	15746869	15834869	located_end	15746869
	estimated_end	15834869		
CH321-33H08 3R	12450202	12538202	located_end	12450202
	estimated_end	12538202		
CH321-33H09 3L	19915438	20003438	estimated_end	19915438
	located_end	20003438		

CH321-33H10 3L	11773883	11861883	estimated_end	11773883
	located_end	11861883		
CH321-33H14 2R	15228755	15316755	estimated_end	15228755
	located_end	15316755		
CH321-33H17 2R	6846488	6934488	estimated_end	6846488
	located_end	6934488		
CH321-33H19 2L	18205779	18293779	estimated_end	18205779
	located_end	18293779		
CH321-33H22 3R	7272816	7360816	located_end	7272816
	estimated_end	7360816		
CH321-33H24 2R	16110245	16198245	estimated_end	16110245
	located_end	16198245		
CH321-33I02 3L	11635392	11723392	estimated_end	11635392
	located_end	11723392		
CH321-33I08 3L	6396076	6484076	located_end	6396076
	estimated_end	6484076		
CH321-33I09 3L	13251961	13339961	located_end	13251961
	estimated_end	13339961		
CH321-33I10 2L	720814	808814	located_end	720814
	estimated_end	808814		
CH321-33I12 3L	3548864	3636864	estimated_end	3548864
	located_end	3636864		
CH321-33I21 2L	15018382	15106382	estimated_end	15018382
	located_end	15106382		
CH321-33I22 X	11972933	12060933	located_end	11972933
	estimated_end	12060933		
CH321-33J05 2R	15776175	15864175	estimated_end	15776175
	located_end	15864175		
CH321-33J08 3L	3383700	3471700	located_end	3383700
	estimated_end	3471700		
CH321-33J09 2R	13830398	13918398	estimated_end	13830398
	located_end	13918398		
CH321-33J10 2R	18942339	19030339	estimated_end	18942339
	located_end	19030339		
CH321-33J11 2L	16664256	16752256	located_end	16664256
	estimated_end	16752256		
CH321-33J13 2R	15870456	15958456	located_end	15870456
	estimated_end	15958456		
CH321-33J15 3RHet	2216056	2304056	estimated_end	2216056
	located_end	2304056		
CH321-33J19 3R	27432785	27520785	located_end	27432785
	estimated_end	27520785		
CH321-33J20 2L	4127187	4215187	located_end	4127187
	estimated_end	4215187		
CH321-33J24 2L	3463290	3551290	located_end	3463290
	estimated_end	3551290		
CH321-33K04 2L	15812384	15900384	estimated_end	15812384
	located_end	15900384		
CH321-33K06 2L	6597860	6685860	located_end	6597860
	estimated_end	6685860		
CH321-33K09 2L	14400002	14488002	estimated_end	14400002
	located_end	14488002		
CH321-33K10 X	12705164	12793164	estimated_end	12705164
	located_end	12793164		

CH321-33K11 3L	8223668	8311668	estimated_end	8223668
	located_end	8311668		
CH321-33K13 3L	1892535	1980535	estimated_end	1892535
	located_end	1980535		
CH321-33K19 3R	10940120	11028120	located_end	10940120
	estimated_end	11028120		
CH321-33K21 2L	9424265	9512265	located_end	9424265
	estimated_end	9512265		
CH321-33K22 2L	21099513	21187513	located_end	21099513
	estimated_end	21187513		
CH321-33K23 2R	15343669	15431669	estimated_end	15343669
	located_end	15431669		
CH321-33K24 2R	8198505	8286505	estimated_end	8198505
	located_end	8286505		
CH321-33L06 3R	20709237	20797237	estimated_end	20709237
	located_end	20797237		
CH321-33L07 3R	24672295	24760295	located_end	24672295
	estimated_end	24760295		
CH321-33L12 2L	12605907	12693907	estimated_end	12605907
	located_end	12693907		
CH321-33L13 2R	15445881	15533881	located_end	15445881
	estimated_end	15533881		
CH321-33L14 3R	20933960	21021960	estimated_end	20933960
	located_end	21021960		
CH321-33L15 3L	18464030	18552030	located_end	18464030
	estimated_end	18552030		
CH321-33L19 2R	20849024	20937024	located_end	20849024
	estimated_end	20937024		
CH321-33L23 2R	10396940	10484940	estimated_end	10396940
	located_end	10484940		
CH321-33L24 2R	5739765	5827765	located_end	5739765
	estimated_end	5827765		
CH321-33M06 3L	9188439	9276439	estimated_end	9188439
	located_end	9276439		
CH321-33M07 X	12427282	12515282	estimated_end	12427282
	located_end	12515282		
CH321-33M08 3R	19370030	19458030	estimated_end	19370030
	located_end	19458030		
CH321-33M10 3L	16370735	16458735	located_end	16370735
	estimated_end	16458735		
CH321-33M11 3L	6636229	6724229	located_end	6636229
	estimated_end	6724229		
CH321-33M15 3L	6236142	6324142	located_end	6236142
	estimated_end	6324142		
CH321-33M17 X	3517318	3605318	estimated_end	3517318
	located_end	3605318		
CH321-33M18 3L	13271425	13359425	estimated_end	13271425
	located_end	13359425		
CH321-33M19 2L	4002684	4090684	located_end	4002684
	estimated_end	4090684		
CH321-33M23 3R	27675381	27763381	located_end	27675381
	estimated_end	27763381		
CH321-33N07 X	12325318	12413318	estimated_end	12325318
	located_end	12413318		

CH321-33N08 2L	13991927	14079927	located_end	13991927
	estimated_end	14079927		
CH321-33N09 3L	6611162	6699162	located_end	6611162
	estimated_end	6699162		
CH321-33N12 2L	6579408	6667408	estimated_end	6579408
	located_end	6667408		
CH321-33N13 2R	7029451	7117451	estimated_end	7029451
	located_end	7117451		
CH321-33N14 2L	3959340	4047340	located_end	3959340
	estimated_end	4047340		
CH321-33N15 3R	6401841	6489841	estimated_end	6401841
	located_end	6489841		
CH321-33N17 3R	8728189	8816189	located_end	8728189
	estimated_end	8816189		
CH321-33N19 2R	11470299	11558299	located_end	11470299
	estimated_end	11558299		
CH321-33N22 3R	1863310	1951310	located_end	1863310
	estimated_end	1951310		
CH321-33O02 2L	17259362	17347362	located_end	17259362
	estimated_end	17347362		
CH321-33O06 3L	9175865	9263865	located_end	9175865
	estimated_end	9263865		
CH321-33O08 3R	19362350	19450350	located_end	19362350
	estimated_end	19450350		
CH321-33O10 3L	16368591	16456591	estimated_end	16368591
	located_end	16456591		
CH321-33O12 2R	297714	385714	located_end	297714
	estimated_end	385714		
CH321-33O13 X	6408061	6496061	estimated_end	6408061
	located_end	6496061		
CH321-33O18 3L	13268250	13356250	located_end	13268250
	estimated_end	13356250		
CH321-33O20 2R	9954482	10042482	estimated_end	9954482
	located_end	10042482		
CH321-33O21 2R	18358963	18446963	located_end	18358963
	estimated_end	18446963		
CH321-33P03 ArmU	6189785	6277785	estimated_end	6189785
	located_end	6277785		
CH321-33P06 3R	22840998	22928998	estimated_end	22840998
	located_end	22928998		
CH321-33P13 3R	7492915	7580915	located_end	7492915
	estimated_end	7580915		
CH321-33P23 2R	282288	370288	located_end	282288
	estimated_end	370288		
CH321-34A18 2L	5604218	5692218	located_end	5604218
	estimated_end	5692218		
CH321-34A22 3RHet	930109	1018109	estimated_end	930109
	located_end	1018109		
CH321-34B06 3R	16236859	16324859	located_end	16236859
	estimated_end	16324859		
CH321-34B12 3R	19632458	19720458	located_end	19632458
	estimated_end	19720458		
CH321-34B14 3L	17200059	17288059	located_end	17200059
	estimated_end	17288059		

CH321-34B16 2R	11282340	11370340	estimated_end	11282340
	located_end	11370340		
CH321-34B18 2L	6116644	6204644	estimated_end	6116644
	located_end	6204644		
CH321-34B23 3R	6874049	6962049	estimated_end	6874049
	located_end	6962049		
CH321-34C08 2R	18558019	18646019	estimated_end	18558019
	located_end	18646019		
CH321-34C09 3RHet	1803306	1891306	located_end	1803306
	estimated_end	1891306		
CH321-34C10 X	16890695	16978695	located_end	16890695
	estimated_end	16978695		
CH321-34C11 2R	6783749	6871749	estimated_end	6783749
	located_end	6871749		
CH321-34C14 3R	27408117	27496117	estimated_end	27408117
	located_end	27496117		
CH321-34C20 2L	5807700	5895700	located_end	5807700
	estimated_end	5895700		
CH321-34D01 2R	5504003	5592003	estimated_end	5504003
	located_end	5592003		
CH321-34D03 2L	17972428	18060428	located_end	17972428
	estimated_end	18060428		
CH321-34D05 3R	22810591	22898591	located_end	22810591
	estimated_end	22898591		
CH321-34D07 3L	1037634	1125634	located_end	1037634
	estimated_end	1125634		
CH321-34D08 3R	12371262	12459262	located_end	12371262
	estimated_end	12459262		
CH321-34D09 ArmU	5905646	5993646	located_end	5905646
	estimated_end	5993646		
CH321-34D11 2L	10242901	10330901	located_end	10242901
	estimated_end	10330901		
CH321-34D14 3R	24341464	24429464	located_end	24341464
	estimated_end	24429464		
CH321-34D16 2R	12141390	12229390	estimated_end	12141390
	located_end	12229390		
CH321-34D20 2R	593496	681496	located_end	593496
	estimated_end	681496		
CH321-34E01 2L	1433710	1521710	located_end	1433710
	estimated_end	1521710		
CH321-34E04 2L	18209602	18297602	estimated_end	18209602
	located_end	18297602		
CH321-34E06 X	6735557	6823557	located_end	6735557
	estimated_end	6823557		
CH321-34E10 2R	7891210	7979210	located_end	7891210
	estimated_end	7979210		
CH321-34E11 2R	4196547	4284547	located_end	4196547
	estimated_end	4284547		
CH321-34E15 3R	13148318	13236318	estimated_end	13148318
	located_end	13236318		
CH321-34E16 2L	12679144	12767144	estimated_end	12679144
	located_end	12767144		
CH321-34E18 2L	16011473	16099473	located_end	16011473
	estimated_end	16099473		

CH321-34E19 2L	5863835	5951835	estimated_end	5863835
	located_end	5951835		
CH321-34E20 2L	9764218	9852218	located_end	9764218
	estimated_end	9852218		
CH321-34F04 3L	10537302	10625302	estimated_end	10537302
	located_end	10625302		
CH321-34F05 ArmU	4232731	4320731	estimated_end	4232731
	located_end	4320731		
CH321-34F06 3L	865193	953193	estimated_end	865193
	located_end	953193		
CH321-34F07 3L	7161045	7249045	estimated_end	7161045
	located_end	7249045		
CH321-34F09 2R	12796380	12884380	estimated_end	12796380
	located_end	12884380		
CH321-34F10 2R	6585141	6673141	located_end	6585141
	estimated_end	6673141		
CH321-34F12 2R	1527424	1615424	located_end	1527424
	estimated_end	1615424		
CH321-34F13 2R	6754757	6842757	located_end	6754757
	estimated_end	6842757		
CH321-34F19 3L	12177859	12265859	located_end	12177859
	estimated_end	12265859		
CH321-34F20 2R	4017264	4105264	located_end	4017264
	estimated_end	4105264		
CH321-34F22 3L	15734625	15822625	estimated_end	15734625
	located_end	15822625		
CH321-34G01 2L	17707935	17795935	estimated_end	17707935
	located_end	17795935		
CH321-34G03 2L	2670573	2758573	located_end	2670573
	estimated_end	2758573		
CH321-34G04 2R	8762759	8850759	estimated_end	8762759
	located_end	8850759		
CH321-34G08 3R	7390115	7478115	located_end	7390115
	estimated_end	7478115		
CH321-34G10 3R	22454964	22542964	estimated_end	22454964
	located_end	22542964		
CH321-34G12 3L	10663587	10751587	estimated_end	10663587
	located_end	10751587		
CH321-34G15 3R	14209427	14297427	located_end	14209427
	estimated_end	14297427		
CH321-34G16 3R	7493727	7581727	estimated_end	7493727
	located_end	7581727		
CH321-34G17 2L	20841773	20929773	estimated_end	20841773
	located_end	20929773		
CH321-34G20 2R	8712224	8800224	estimated_end	8712224
	located_end	8800224		
CH321-34G23 2L	13703460	13791460	located_end	13703460
	estimated_end	13791460		
CH321-34G24 2L	1243555	1331555	located_end	1243555
	estimated_end	1331555		
CH321-34H08 2L	19581211	19669211	located_end	19581211
	estimated_end	19669211		
CH321-34H09 3R	14263390	14351390	estimated_end	14263390
	located_end	14351390		

CH321-34H13 X	5931189	6019189	located_end	5931189
	estimated_end	6019189		
CH321-34H14 3R	9681333	9769333	located_end	9681333
	estimated_end	9769333		
CH321-34H15 3L	8676335	8764335	located_end	8676335
	estimated_end	8764335		
CH321-34H16 2R	10218567	10306567	estimated_end	10218567
	located_end	10306567		
CH321-34H23 3R	21333340	21421340	located_end	21333340
	estimated_end	21421340		
CH321-34I01 2L	8767997	8855997	estimated_end	8767997
	located_end	8855997		
CH321-34I04 3L	17466271	17554271	estimated_end	17466271
	located_end	17554271		
CH321-34I06 2L	2747837	2835837	located_end	2747837
	estimated_end	2835837		
CH321-34I08 3L	3231674	3319674	estimated_end	3231674
	located_end	3319674		
CH321-34I15 2L	15085498	15173498	located_end	15085498
	estimated_end	15173498		
CH321-34I17 2L	7095165	7183165	estimated_end	7095165
	located_end	7183165		
CH321-34I21 2R	6889450	6977450	estimated_end	6889450
	located_end	6977450		
CH321-34I22 3R	2341916	2429916	located_end	2341916
	estimated_end	2429916		
CH321-34I24 2L	8879871	8967871	located_end	8879871
	estimated_end	8967871		
CH321-34J01 2L	9971473	10059473	located_end	9971473
	estimated_end	10059473		
CH321-34J04 2L	7978635	8066635	estimated_end	7978635
	located_end	8066635		
CH321-34J05 3R	13854305	13942305	estimated_end	13854305
	located_end	13942305		
CH321-34J09 2L	9915440	10003440	located_end	9915440
	estimated_end	10003440		
CH321-34J11 2L	9183167	9271167	estimated_end	9183167
	located_end	9271167		
CH321-34J12 2L	13555404	13643404	estimated_end	13555404
	located_end	13643404		
CH321-34J13 2R	2229936	2317936	estimated_end	2229936
	located_end	2317936		
CH321-34J14 3R	18234843	18322843	estimated_end	18234843
	located_end	18322843		
CH321-34J15 ArmU	2129160	2217160	estimated_end	2129160
	located_end	2217160		
CH321-34J19 3L	6568298	6656298	estimated_end	6568298
	located_end	6656298		
CH321-34J20 X	9557280	9645280	estimated_end	9557280
	located_end	9645280		
CH321-34J23 2R	4434051	4522051	estimated_end	4434051
	located_end	4522051		
CH321-34K01 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		

CH321-34K06 2R	7857426	7945426	located_end	7857426
	estimated_end	7945426		
CH321-34K07 2R	14188235	14276235	estimated_end	14188235
	located_end	14276235		
CH321-34K09 4	322763	410763	located_end	322763
	estimated_end	410763		
CH321-34K10 3R	11783043	11871043	located_end	11783043
	estimated_end	11871043		
CH321-34K11 3L	12913135	13001135	estimated_end	12913135
	located_end	13001135		
CH321-34K12 2R	10095758	10183758	estimated_end	10095758
	located_end	10183758		
CH321-34K14 X	6543890	6631890	located_end	6543890
	estimated_end	6631890		
CH321-34K15 3L	4423619	4511619	located_end	4423619
	estimated_end	4511619		
CH321-34K16 X	18605836	18693836	estimated_end	18605836
	located_end	18693836		
CH321-34K17 3R	18441022	18529022	estimated_end	18441022
	located_end	18529022		
CH321-34K22 2L	10899323	10987323	estimated_end	10899323
	located_end	10987323		
CH321-34L03 2L	5786917	5874917	located_end	5786917
	estimated_end	5874917		
CH321-34L05 2R	4402306	4490306	located_end	4402306
	estimated_end	4490306		
CH321-34L09 2R	7346682	7434682	located_end	7346682
	estimated_end	7434682		
CH321-34L11 3L	15580665	15668665	located_end	15580665
	estimated_end	15668665		
CH321-34L12 3R	16702913	16790913	located_end	16702913
	estimated_end	16790913		
CH321-34L14 X	16876981	16964981	located_end	16876981
	estimated_end	16964981		
CH321-34L15 X	21137130	21225130	estimated_end	21137130
	located_end	21225130		
CH321-34L17 2R	12537937	12625937	estimated_end	12537937
	located_end	12625937		
CH321-34L18 2L	11513584	11601584	estimated_end	11513584
	located_end	11601584		
CH321-34M01 3L	9099465	9187465	estimated_end	9099465
	located_end	9187465		
CH321-34M03 3R	24732992	24820992	estimated_end	24732992
	located_end	24820992		
CH321-34M11 ArmU	6083118	6171118	located_end	6083118
	estimated_end	6171118		
CH321-34M13 3R	7173562	7261562	estimated_end	7173562
	located_end	7261562		
CH321-34M17 2R	4441997	4529997	estimated_end	4441997
	located_end	4529997		
CH321-34M18 3L	14957580	15045580	located_end	14957580
	estimated_end	15045580		
CH321-34M21 3R	16240242	16328242	located_end	16240242
	estimated_end	16328242		

CH321-34M23 3R	12540972	12628972	located_end	12540972
	estimated_end	12628972		
CH321-34M24 3R	61857	149857	located_end	61857
	estimated_end	149857		
CH321-34N03 2L	17975261	18063261	estimated_end	17975261
	located_end	18063261		
CH321-34N04 2R	3992604	4080604	located_end	3992604
	estimated_end	4080604		
CH321-34N07 2R	11333070	11421070	estimated_end	11333070
	located_end	11421070		
CH321-34N11 3L	8044428	8132428	located_end	8044428
	estimated_end	8132428		
CH321-34N13 3R	12634962	12722962	located_end	12634962
	estimated_end	12722962		
CH321-34N15 3R	5067394	5155394	located_end	5067394
	estimated_end	5155394		
CH321-34N16 2R	14588657	14676657	located_end	14588657
	estimated_end	14676657		
CH321-34N18 2R	13844330	13932330	estimated_end	13844330
	located_end	13932330		
CH321-34N20 3L	20385929	20473929	located_end	20385929
	estimated_end	20473929		
CH321-34N21 3R	1712158	1800158	estimated_end	1712158
	located_end	1800158		
CH321-34N23 3L	4128366	4216366	located_end	4128366
	estimated_end	4216366		
CH321-34O03 X	2813838	2901838	estimated_end	2813838
	located_end	2901838		
CH321-34O09 3L	7076967	7164967	estimated_end	7076967
	located_end	7164967		
CH321-34O10 2R	11632765	11720765	estimated_end	11632765
	located_end	11720765		
CH321-34O13 2R	19700457	19788457	located_end	19700457
	estimated_end	19788457		
CH321-34O15 2L	22496005	22584005	estimated_end	22496005
	located_end	22584005		
CH321-34O16 2L	6535539	6623539	estimated_end	6535539
	located_end	6623539		
CH321-34O20 2R	1496724	1584724	located_end	1496724
	estimated_end	1584724		
CH321-34O21 3R	14785827	14873827	located_end	14785827
	estimated_end	14873827		
CH321-34O23 2R	19520449	19608449	located_end	19520449
	estimated_end	19608449		
CH321-34P01 3L	11232407	11320407	estimated_end	11232407
	located_end	11320407		
CH321-34P06 2L	12716938	12804938	located_end	12716938
	estimated_end	12804938		
CH321-34P17 3L	3468883	3556883	located_end	3468883
	estimated_end	3556883		
CH321-34P22 X	6785024	6873024	located_end	6785024
	estimated_end	6873024		
CH321-35A15 2R	6514201	6602201	estimated_end	6514201
	located_end	6602201		

CH321-35A19 3R	9248303	9336303	located_end 9248303
	estimated_end	9336303	
CH321-35A20 X	15467774	15555774	located_end 15467774
	estimated_end	15555774	
CH321-35A23 ArmU	4197658	4285658	located_end 4197658
	estimated_end	4285658	
CH321-35B17 X	15727523	15815523	estimated_end 15727523
	located_end	15815523	
CH321-35B18 2RHet	2144124	2232124	located_end 2144124
	estimated_end	2232124	
CH321-35B19 3R	21607051	21695051	estimated_end 21607051
	located_end	21695051	
CH321-35B23 2L	12951847	13039847	located_end 12951847
	estimated_end	13039847	
CH321-35C03 X	10681671	10769671	estimated_end 10681671
	located_end	10769671	
CH321-35C06 3RHet	2061532	2149532	estimated_end 2061532
	located_end	2149532	
CH321-35C09 X	3855517	3943517	located_end 3855517
	estimated_end	3943517	
CH321-35C13 2R	15182509	15270509	located_end 15182509
	estimated_end	15270509	
CH321-35C21 3L	12779441	12867441	located_end 12779441
	estimated_end	12867441	
CH321-35C22 X	1874853	1962853	estimated_end 1874853
	located_end	1962853	
CH321-35D07 X	13278091	13366091	estimated_end 13278091
	located_end	13366091	
CH321-35D09 2R	18608884	18696884	located_end 18608884
	estimated_end	18696884	
CH321-35D11 3LHet	1050855	1138855	estimated_end 1050855
	located_end	1138855	
CH321-35D17 X	7918076	8006076	located_end 7918076
	estimated_end	8006076	
CH321-35D18 X	18850930	18938930	estimated_end 18850930
	located_end	18938930	
CH321-35D21 3R	19488151	19576151	estimated_end 19488151
	located_end	19576151	
CH321-35E02 2R	4459915	4547915	estimated_end 4459915
	located_end	4547915	
CH321-35E05 2L	9433566	9521566	located_end 9433566
	estimated_end	9521566	
CH321-35E08 3R	5234267	5322267	estimated_end 5234267
	located_end	5322267	
CH321-35E10 3L	11806931	11894931	located_end 11806931
	estimated_end	11894931	
CH321-35E13 X	2602820	2690820	estimated_end 2602820
	located_end	2690820	
CH321-35E21 3L	21972152	22060152	estimated_end 21972152
	located_end	22060152	
CH321-35F01 3L	12111617	12199617	located_end 12111617
	estimated_end	12199617	
CH321-35F02 X	6755322	6843322	located_end 6755322
	estimated_end	6843322	

CH321-35F03 3L	11946002	12034002	located_end	11946002
	estimated_end	12034002		
CH321-35F04 2L	22644487	22732487	located_end	22644487
	estimated_end	22732487		
CH321-35F05 3RHet	1872773	1960773	estimated_end	1872773
	located_end	1960773		
CH321-35F06 2R	8808701	8896701	located_end	8808701
	estimated_end	8896701		
CH321-35F07 3R	11565921	11653921	estimated_end	11565921
	located_end	11653921		
CH321-35F08 3L	18328814	18416814	located_end	18328814
	estimated_end	18416814		
CH321-35F09 2L	13033692	13121692	estimated_end	13033692
	located_end	13121692		
CH321-35F11 2R	7476702	7564702	estimated_end	7476702
	located_end	7564702		
CH321-35F14 3R	23764252	23852252	located_end	23764252
	estimated_end	23852252		
CH321-35F16 2R	12259972	12347972	estimated_end	12259972
	located_end	12347972		
CH321-35F23 X	3357854	3445854	located_end	3357854
	estimated_end	3445854		
CH321-35F24 2R	15798703	15886703	located_end	15798703
	estimated_end	15886703		
CH321-35G01 3R	20973195	21061195	located_end	20973195
	estimated_end	21061195		
CH321-35G03 3R	14414072	14502072	located_end	14414072
	estimated_end	14502072		
CH321-35G06 3L	19889845	19977845	located_end	19889845
	estimated_end	19977845		
CH321-35G10 2R	16886422	16974422	estimated_end	16886422
	located_end	16974422		
CH321-35G11 2L	11761041	11849041	located_end	11761041
	estimated_end	11849041		
CH321-35G15 2R	19051495	19139495	located_end	19051495
	estimated_end	19139495		
CH321-35G19 2L	9603922	9691922	located_end	9603922
	estimated_end	9691922		
CH321-35H01 3R	8559424	8647424	located_end	8559424
	estimated_end	8647424		
CH321-35H03 3L	5642202	5730202	located_end	5642202
	estimated_end	5730202		
CH321-35H07 X	8481264	8569264	located_end	8481264
	estimated_end	8569264		
CH321-35H09 3R	12804997	12892997	located_end	12804997
	estimated_end	12892997		
CH321-35H11 2L	14819655	14907655	estimated_end	14819655
	located_end	14907655		
CH321-35H13 2R	4627366	4715366	located_end	4627366
	estimated_end	4715366		
CH321-35H18 3R	24409702	24497702	estimated_end	24409702
	located_end	24497702		
CH321-35H19 3R	20363034	20451034	estimated_end	20363034
	located_end	20451034		

CH321-35H20 3L	13725636	13813636	located_end	13725636
estimated_end	13813636			
CH321-35I02 X	2847229	2935229	estimated_end	2847229
located_end	2935229			
CH321-35I03 2L	8216971	8304971	estimated_end	8216971
located_end	8304971			
CH321-35I04 2L	14328506	14416506	estimated_end	14328506
located_end	14416506			
CH321-35I05 3R	6061785	6149785	estimated_end	6061785
located_end	6149785			
CH321-35I07 3L	4866815	4954815	located_end	4866815
estimated_end	4954815			
CH321-35I09 3L	17638226	17726226	located_end	17638226
estimated_end	17726226			
CH321-35I10 2R	1124270	1212270	estimated_end	1124270
located_end	1212270			
CH321-35I13 2R	1082410	1170410	estimated_end	1082410
located_end	1170410			
CH321-35I15 2L	14004116	14092116	located_end	14004116
estimated_end	14092116			
CH321-35I16 X	21040172	21128172	estimated_end	21040172
located_end	21128172			
CH321-35I20 3L	10722693	10810693	estimated_end	10722693
located_end	10810693			
CH321-35I21 X	14814577	14902577	located_end	14814577
estimated_end	14902577			
CH321-35I22 3R	21627234	21715234	estimated_end	21627234
located_end	21715234			
CH321-35I23 ArmU	9112392	9200392	located_end	9112392
estimated_end	9200392			
CH321-35I24 3R	17327030	17415030	estimated_end	17327030
located_end	17415030			
CH321-35J01 X	11115046	11203046	located_end	11115046
estimated_end	11203046			
CH321-35J02 ArmU	1167225	1255225	estimated_end	1167225
located_end	1255225			
CH321-35J03 3R	15751094	15839094	estimated_end	15751094
located_end	15839094			
CH321-35J13 3L	6394225	6482225	estimated_end	6394225
located_end	6482225			
CH321-35J14 X	18678559	18766559	located_end	18678559
estimated_end	18766559			
CH321-35J16 3L	22272850	22360850	located_end	22272850
estimated_end	22360850			
CH321-35J17 3L	3984269	4072269	estimated_end	3984269
located_end	4072269			
CH321-35J18 X	4106320	4194320	located_end	4106320
estimated_end	4194320			
CH321-35J19 3L	6101689	6189689	estimated_end	6101689
located_end	6189689			
CH321-35J21 2R	13843381	13931381	located_end	13843381
estimated_end	13931381			
CH321-35J22 3R	1950596	2038596	estimated_end	1950596
located_end	2038596			

CH321-35K02 2R	17603951	17691951	estimated_end	17603951
	located_end	17691951		
CH321-35K04 X	6185575	6273575	located_end	6185575
	estimated_end	6273575		
CH321-35K05 3R	866646	954646	estimated_end	866646
	located_end	954646		
CH321-35K13 X	8399962	8487962	located_end	8399962
	estimated_end	8487962		
CH321-35K15 2R	8866178	8954178	located_end	8866178
	estimated_end	8954178		
CH321-35K19 X	9593835	9681835	located_end	9593835
	estimated_end	9681835		
CH321-35K22 2R	7251360	7339360	located_end	7251360
	estimated_end	7339360		
CH321-35L02 2R	3320145	3408145	estimated_end	3320145
	located_end	3408145		
CH321-35L04 3R	13355153	13443153	estimated_end	13355153
	located_end	13443153		
CH321-35L11 2R	19171731	19259731	located_end	19171731
	estimated_end	19259731		
CH321-35L12 2L	5378143	5466143	estimated_end	5378143
	located_end	5466143		
CH321-35L17 3L	7427548	7515548	located_end	7427548
	estimated_end	7515548		
CH321-35L19 2R	13725516	13813516	estimated_end	13725516
	located_end	13813516		
CH321-35L21 X	5301729	5389729	estimated_end	5301729
	located_end	5389729		
CH321-35L24 3L	16822730	16910730	located_end	16822730
	estimated_end	16910730		
CH321-35M02 3L	20529750	20617750	estimated_end	20529750
	located_end	20617750		
CH321-35M03 X	15278594	15366594	estimated_end	15278594
	located_end	15366594		
CH321-35M04 3L	15566751	15654751	located_end	15566751
	estimated_end	15654751		
CH321-35M05 3R	27727003	27815003	located_end	27727003
	estimated_end	27815003		
CH321-35M12 X	16972783	17060783	estimated_end	16972783
	located_end	17060783		
CH321-35M13 X	8843724	8931724	estimated_end	8843724
	located_end	8931724		
CH321-35M17 3RHet	1742777	1830777	estimated_end	1742777
	located_end	1830777		
CH321-35N03 X	7235796	7323796	located_end	7235796
	estimated_end	7323796		
CH321-35N05 3L	14402764	14490764	estimated_end	14402764
	located_end	14490764		
CH321-35N06 2L	19724673	19812673	estimated_end	19724673
	located_end	19812673		
CH321-35N08 2L	15581398	15669398	located_end	15581398
	estimated_end	15669398		
CH321-35N10 3R	1207377	1295377	located_end	1207377
	estimated_end	1295377		

CH321-35N12 3R	1621100	1709100	located_end	1621100
	estimated_end	1709100		
CH321-35N14 3L	14596530	14684530	estimated_end	14596530
	located_end	14684530		
CH321-35N19 2R	20899276	20987276	located_end	20899276
	estimated_end	20987276		
CH321-35N23 2R	5199037	5287037	estimated_end	5199037
	located_end	5287037		
CH321-35O06 X	7212428	7300428	estimated_end	7212428
	located_end	7300428		
CH321-35O07 3L	17255473	17343473	located_end	17255473
	estimated_end	17343473		
CH321-35O09 2L	3662797	3750797	located_end	3662797
	estimated_end	3750797		
CH321-35O10 3R	15967304	16055304	located_end	15967304
	estimated_end	16055304		
CH321-35O14 3R	8103112	8191112	estimated_end	8103112
	located_end	8191112		
CH321-35O17 3R	21207238	21295238	estimated_end	21207238
	located_end	21295238		
CH321-35O18 X	19518790	19606790	located_end	19518790
	estimated_end	19606790		
CH321-35O19 3L	14551802	14639802	located_end	14551802
	estimated_end	14639802		
CH321-35O20 2L	21211186	21299186	located_end	21211186
	estimated_end	21299186		
CH321-35O22 X	15767972	15855972	located_end	15767972
	estimated_end	15855972		
CH321-35O23 2L	18154500	18242500	estimated_end	18154500
	located_end	18242500		
CH321-35P09 2L	17815583	17903583	located_end	17815583
	estimated_end	17903583		
CH321-35P10 3L	9301853	9389853	located_end	9301853
	estimated_end	9389853		
CH321-35P16 2R	13258706	13346706	located_end	13258706
	estimated_end	13346706		
CH321-35P17 X	13652448	13740448	located_end	13652448
	estimated_end	13740448		
CH321-35P20 2R	20347265	20435265	located_end	20347265
	estimated_end	20435265		
CH321-35P22 3L	7889400	7977400	located_end	7889400
	estimated_end	7977400		
CH321-36A06 2RHet	1530839	1618839	estimated_end	1530839
	located_end	1618839		
CH321-36A11 3RHet	1429412	1517412	located_end	1429412
	estimated_end	1517412		
CH321-36A12 3R	19110138	19198138	estimated_end	19110138
	located_end	19198138		
CH321-36A13 2R	8562822	8650822	located_end	8562822
	estimated_end	8650822		
CH321-36A15 3R	14315083	14403083	located_end	14315083
	estimated_end	14403083		
CH321-36A16 X	18421834	18509834	located_end	18421834
	estimated_end	18509834		

CH321-36A18 3L	5929488	6017488	estimated_end	5929488
	located_end	6017488		
CH321-36A19 2L	8537440	8625440	located_end	8537440
	estimated_end	8625440		
CH321-36A20 3L	13574008	13662008	estimated_end	13574008
	located_end	13662008		
CH321-36A23 3R	24518637	24606637	estimated_end	24518637
	located_end	24606637		
CH321-36A24 3R	14895728	14983728	located_end	14895728
	estimated_end	14983728		
CH321-36B13 3R	11143446	11231446	located_end	11143446
	estimated_end	11231446		
CH321-36B20 2L	8280012	8368012	estimated_end	8280012
	located_end	8368012		
CH321-36B22 3L	16474598	16562598	located_end	16474598
	estimated_end	16562598		
CH321-36B24 2R	7855282	7943282	located_end	7855282
	estimated_end	7943282		
CH321-36C02 3RHet	1505691	1593691	estimated_end	1505691
	located_end	1593691		
CH321-36C06 2L	20276174	20364174	estimated_end	20276174
	located_end	20364174		
CH321-36C07 2L	14795548	14883548	estimated_end	14795548
	located_end	14883548		
CH321-36C08 2L	16714093	16802093	estimated_end	16714093
	located_end	16802093		
CH321-36C12 3R	27304082	27392082	located_end	27304082
	estimated_end	27392082		
CH321-36C13 3R	22892047	22980047	estimated_end	22892047
	located_end	22980047		
CH321-36C15 X	8853989	8941989	estimated_end	8853989
	located_end	8941989		
CH321-36C21 2R	6355006	6443006	estimated_end	6355006
	located_end	6443006		
CH321-36D05 3R	19404033	19492033	estimated_end	19404033
	located_end	19492033		
CH321-36D07 3L	2295667	2383667	located_end	2295667
	estimated_end	2383667		
CH321-36D11 3R	11695732	11783732	located_end	11695732
	estimated_end	11783732		
CH321-36D12 3L	18103092	18191092	located_end	18103092
	estimated_end	18191092		
CH321-36D21 3R	22417619	22505619	located_end	22417619
	estimated_end	22505619		
CH321-36D22 2R	14865560	14953560	estimated_end	14865560
	located_end	14953560		
CH321-36E01 3RHet	590148	678148	located_end	590148
	estimated_end	678148		
CH321-36E05 3R	20961600	21049600	located_end	20961600
	estimated_end	21049600		
CH321-36E09 X	3854152	3942152	located_end	3854152
	estimated_end	3942152		
CH321-36E15 3R	23428946	23516946	estimated_end	23428946
	located_end	23516946		

CH321-36E24 3L	4590362	4678362	located_end	4590362
	estimated_end	4678362		
CH321-36F01 3L	8743523	8831523	located_end	8743523
	estimated_end	8831523		
CH321-36F06 ArmU	7731395	7819395	estimated_end	7731395
	located_end	7819395		
CH321-36F07 3L	21374495	21462495	located_end	21374495
	estimated_end	21462495		
CH321-36F12 3R	7414747	7502747	estimated_end	7414747
	located_end	7502747		
CH321-36F17 2L	8946306	9034306	estimated_end	8946306
	located_end	9034306		
CH321-36F20 3L	14144640	14232640	located_end	14144640
	estimated_end	14232640		
CH321-36F21 2R	3731408	3819408	estimated_end	3731408
	located_end	3819408		
CH321-36F23 X	4026790	4114790	estimated_end	4026790
	located_end	4114790		
CH321-36G02 3R	5607053	5695053	estimated_end	5607053
	located_end	5695053		
CH321-36G06 X	12017039	12105039	estimated_end	12017039
	located_end	12105039		
CH321-36G07 3R	22982374	23070374	located_end	22982374
	estimated_end	23070374		
CH321-36G09 3R	11197479	11285479	located_end	11197479
	estimated_end	11285479		
CH321-36G13 ArmU	8131423	8219423	located_end	8131423
	estimated_end	8219423		
CH321-36G17 3L	7581489	7669489	located_end	7581489
	estimated_end	7669489		
CH321-36G19 2R	11563972	11651972	estimated_end	11563972
	located_end	11651972		
CH321-36G20 3L	18355622	18443622	located_end	18355622
	estimated_end	18443622		
CH321-36G21 2L	14185280	14273280	located_end	14185280
	estimated_end	14273280		
CH321-36G24 X	17504011	17592011	estimated_end	17504011
	located_end	17592011		
CH321-36H02 2R	6275269	6363269	estimated_end	6275269
	located_end	6363269		
CH321-36H08 2R	12900565	12988565	located_end	12900565
	estimated_end	12988565		
CH321-36H10 3R	18640910	18728910	located_end	18640910
	estimated_end	18728910		
CH321-36H14 2L	18161049	18249049	estimated_end	18161049
	located_end	18249049		
CH321-36H17 ArmU	9762435	9850435	located_end	9762435
	estimated_end	9850435		
CH321-36I03 3R	17749501	17837501	located_end	17749501
	estimated_end	17837501		
CH321-36I05 3L	14992074	15080074	estimated_end	14992074
	located_end	15080074		
CH321-36I07 3L	12421720	12509720	estimated_end	12421720
	located_end	12509720		

CH321-36I09 3R	23258748	23346748	estimated_end	23258748
	located_end	23346748		
CH321-36I10 X	10511725	10599725	located_end	10511725
	estimated_end	10599725		
CH321-36I13 2R	20496500	20584500	located_end	20496500
	estimated_end	20584500		
CH321-36I14 2R	11252145	11340145	estimated_end	11252145
	located_end	11340145		
CH321-36I18 3R	9005248	9093248	estimated_end	9005248
	located_end	9093248		
CH321-36I23 3L	19969922	20057922	located_end	19969922
	estimated_end	20057922		
CH321-36J02 2L	12992256	13080256	located_end	12992256
	estimated_end	13080256		
CH321-36J09 2R	7880674	7968674	located_end	7880674
	estimated_end	7968674		
CH321-36J10 3L	8421034	8509034	estimated_end	8421034
	located_end	8509034		
CH321-36J12 3R	2058937	2146937	located_end	2058937
	estimated_end	2146937		
CH321-36J18 2R	10677905	10765905	estimated_end	10677905
	located_end	10765905		
CH321-36J19 3R	2491894	2579894	estimated_end	2491894
	located_end	2579894		
CH321-36J21 3R	18477692	18565692	located_end	18477692
	estimated_end	18565692		
CH321-36J22 2R	8248153	8336153	located_end	8248153
	estimated_end	8336153		
CH321-36J24 2L	10650001	10738001	estimated_end	10650001
	located_end	10738001		
CH321-36K03 2R	17258529	17346529	located_end	17258529
	estimated_end	17346529		
CH321-36K06 2L	13745987	13833987	estimated_end	13745987
	located_end	13833987		
CH321-36K07 3R	5693141	5781141	estimated_end	5693141
	located_end	5781141		
CH321-36K10 2L	7391935	7479935	estimated_end	7391935
	located_end	7479935		
CH321-36K13 2L	22222381	22310381	estimated_end	22222381
	located_end	22310381		
CH321-36K17 3L	21944367	22032367	located_end	21944367
	estimated_end	22032367		
CH321-36K23 X	6632942	6720942	located_end	6632942
	estimated_end	6720942		
CH321-36L02 3L	17649300	17737300	located_end	17649300
	estimated_end	17737300		
CH321-36L04 ArmU	3930781	4018781	located_end	3930781
	estimated_end	4018781		
CH321-36L05 2L	4769246	4857246	estimated_end	4769246
	located_end	4857246		
CH321-36L08 2L	22368265	22456265	located_end	22368265
	estimated_end	22456265		
CH321-36L11 3L	10882408	10970408	estimated_end	10882408
	located_end	10970408		

CH321-36L14 2L	11818106	11906106	located_end	11818106
	estimated_end	11906106		
CH321-36L15 X	12957163	13045163	estimated_end	12957163
	located_end	13045163		
CH321-36L16 3L	14925005	15013005	located_end	14925005
	estimated_end	15013005		
CH321-36L18 3R	5991510	6079510	estimated_end	5991510
	located_end	6079510		
CH321-36L21 2R	12864237	12952237	located_end	12864237
	estimated_end	12952237		
CH321-36M01 2L	1060998	1148998	estimated_end	1060998
	located_end	1148998		
CH321-36M04 3R	7935960	8023960	estimated_end	7935960
	located_end	8023960		
CH321-36M09 3L	4568248	4656248	located_end	4568248
	estimated_end	4656248		
CH321-36M11 3L	21690555	21778555	estimated_end	21690555
	located_end	21778555		
CH321-36M12 2R	499786	587786	estimated_end	499786
	located_end	587786		
CH321-36M20 2L	5871453	5959453	located_end	5871453
	estimated_end	5959453		
CH321-36M23 3R	1481766	1569766	located_end	1481766
	estimated_end	1569766		
CH321-36N01 ArmU	9465198	9553198	located_end	9465198
	estimated_end	9553198		
CH321-36N03 X	6902057	6990057	estimated_end	6902057
	located_end	6990057		
CH321-36N04 3LHet	825795	913795	located_end	825795
	estimated_end	913795		
CH321-36N07 3L	15086620	15174620	estimated_end	15086620
	located_end	15174620		
CH321-36N08 2L	9165475	9253475	located_end	9165475
	estimated_end	9253475		
CH321-36N09 3RHet	1614830	1702830	estimated_end	1614830
	located_end	1702830		
CH321-36N10 X	9257260	9345260	estimated_end	9257260
	located_end	9345260		
CH321-36N11 2RHet	584623	672623	estimated_end	584623
	located_end	672623		
CH321-36N16 X	6093263	6181263	estimated_end	6093263
	located_end	6181263		
CH321-36N20 3R	14310011	14398011	estimated_end	14310011
	located_end	14398011		
CH321-36N22 3L	12110224	12198224	estimated_end	12110224
	located_end	12198224		
CH321-36N23 2L	5437589	5525589	located_end	5437589
	estimated_end	5525589		
CH321-36O01 3LHet	855187	943187	estimated_end	855187
	located_end	943187		
CH321-36O05 X	14585837	14673837	located_end	14585837
	estimated_end	14673837		
CH321-36O11 2L	16038780	16126780	estimated_end	16038780
	located_end	16126780		

CH321-36015 X	19879807	19967807	estimated_end	19879807
	located_end	19967807		
CH321-36017 3L	12624644	12712644	located_end	12624644
	estimated_end	12712644		
CH321-36020 2L	14089248	14177248	estimated_end	14089248
	located_end	14177248		
CH321-36P01 2R	10558255	10646255	estimated_end	10558255
	located_end	10646255		
CH321-36P05 3R	10338064	10426064	estimated_end	10338064
	located_end	10426064		
CH321-36P07 3L	13098065	13186065	estimated_end	13098065
	located_end	13186065		
CH321-36P08 2L	5308143	5396143	estimated_end	5308143
	located_end	5396143		
CH321-36P10 3L	3198018	3286018	located_end	3198018
	estimated_end	3286018		
CH321-36P11 3R	26411919	26499919	estimated_end	26411919
	located_end	26499919		
CH321-36P12 3LHet	1634040	1722040	estimated_end	1634040
	located_end	1722040		
CH321-36P17 3R	1739379	1827379	estimated_end	1739379
	located_end	1827379		
CH321-36P23 3R	242466	330466	located_end	242466
	estimated_end	330466		
CH321-37A04 2L	21779913	21867913	located_end	21779913
	estimated_end	21867913		
CH321-37A06 X	10191574	10279574	estimated_end	10191574
	located_end	10279574		
CH321-37A07 2R	14505566	14593566	located_end	14505566
	estimated_end	14593566		
CH321-37A08 3R	18887825	18975825	located_end	18887825
	estimated_end	18975825		
CH321-37A09 3R	25070974	25158974	estimated_end	25070974
	located_end	25158974		
CH321-37A10 3L	13168717	13256717	located_end	13168717
	estimated_end	13256717		
CH321-37A11 3R	20881132	20969132	located_end	20881132
	estimated_end	20969132		
CH321-37A12 3R	10237946	10325946	located_end	10237946
	estimated_end	10325946		
CH321-37A13 3R	18390541	18478541	estimated_end	18390541
	located_end	18478541		
CH321-37A15 3R	7314328	7402328	located_end	7314328
	estimated_end	7402328		
CH321-37A18 2L	17343176	17431176	estimated_end	17343176
	located_end	17431176		
CH321-37A19 3R	7925124	8013124	located_end	7925124
	estimated_end	8013124		
CH321-37A22 2R	14189450	14277450	located_end	14189450
	estimated_end	14277450		
CH321-37A23 2L	13885584	13973584	located_end	13885584
	estimated_end	13973584		
CH321-37A24 X	21918501	22006501	located_end	21918501
	estimated_end	22006501		

CH321-37B03 3L	6768512	6856512	estimated_end	6768512
	located_end	6856512		
CH321-37B04 ArmU	9054145	9142145	estimated_end	9054145
	located_end	9142145		
CH321-37B05 X	4422829	4510829	located_end	4422829
	estimated_end	4510829		
CH321-37B06 2R	15395345	15483345	estimated_end	15395345
	located_end	15483345		
CH321-37B08 3R	8522980	8610980	estimated_end	8522980
	located_end	8610980		
CH321-37B10 2L	9662531	9750531	located_end	9662531
	estimated_end	9750531		
CH321-37B13 X	16400849	16488849	estimated_end	16400849
	located_end	16488849		
CH321-37B14 X	22226786	22314786	located_end	22226786
	estimated_end	22314786		
CH321-37B15 ArmU	1888223	1976223	estimated_end	1888223
	located_end	1976223		
CH321-37B18 2R	16192289	16280289	located_end	16192289
	estimated_end	16280289		
CH321-37B19 3L	9014547	9102547	located_end	9014547
	estimated_end	9102547		
CH321-37B23 2R	3012916	3100916	located_end	3012916
	estimated_end	3100916		
CH321-37C03 2L	15766439	15854439	estimated_end	15766439
	located_end	15854439		
CH321-37C04 3L	15358435	15446435	located_end	15358435
	estimated_end	15446435		
CH321-37C05 3L	14346737	14434737	located_end	14346737
	estimated_end	14434737		
CH321-37C06 3R	8585223	8673223	located_end	8585223
	estimated_end	8673223		
CH321-37C09 3R	1476159	1564159	estimated_end	1476159
	located_end	1564159		
CH321-37C11 3R	20642484	20730484	located_end	20642484
	estimated_end	20730484		
CH321-37C14 3L	9937767	10025767	located_end	9937767
	estimated_end	10025767		
CH321-37C15 2R	4877670	4965670	located_end	4877670
	estimated_end	4965670		
CH321-37C18 3L	9741263	9829263	located_end	9741263
	estimated_end	9829263		
CH321-37C20 X	16046799	16134799	estimated_end	16046799
	located_end	16134799		
CH321-37D02 2L	17851875	17939875	located_end	17851875
	estimated_end	17939875		
CH321-37D03 X	14796516	14884516	estimated_end	14796516
	located_end	14884516		
CH321-37D05 3RHet	191777	279777	estimated_end	191777
	located_end	279777		
CH321-37D06 2L	17568834	17656834	located_end	17568834
	estimated_end	17656834		
CH321-37D08 2R	19146522	19234522	estimated_end	19146522
	located_end	19234522		

CH321-37D13 3R	9805977	9893977	estimated_end	9805977
	located_end	9893977		
CH321-37D15 X	1584911	1672911	located_end	1584911
	estimated_end	1672911		
CH321-37D17 3R	25985025	26073025	located_end	25985025
	estimated_end	26073025		
CH321-37D20 3R	17091236	17179236	estimated_end	17091236
	located_end	17179236		
CH321-37D22 2R	16725600	16813600	located_end	16725600
	estimated_end	16813600		
CH321-37D23 2L	5836062	5924062	estimated_end	5836062
	located_end	5924062		
CH321-37E01 3R	3103418	3191418	located_end	3103418
	estimated_end	3191418		
CH321-37E04 2R	6214049	6302049	estimated_end	6214049
	located_end	6302049		
CH321-37E09 2R	8145406	8233406	located_end	8145406
	estimated_end	8233406		
CH321-37E10 3L	19386815	19474815	located_end	19386815
	estimated_end	19474815		
CH321-37E11 2R	2348234	2436234	located_end	2348234
	estimated_end	2436234		
CH321-37E12 3L	4891308	4979308	located_end	4891308
	estimated_end	4979308		
CH321-37E13 2R	21047254	21135254	located_end	21047254
	estimated_end	21135254		
CH321-37E20 X	928087	1016087	estimated_end	928087
	located_end	1016087		
CH321-37E21 X	20397902	20485902	located_end	20397902
	estimated_end	20485902		
CH321-37E22 3R	17143218	17231218	located_end	17143218
	estimated_end	17231218		
CH321-37E23 X	8702618	8790618	estimated_end	8702618
	located_end	8790618		
CH321-37E24 X	20474720	20562720	estimated_end	20474720
	located_end	20562720		
CH321-37F03 3R	14115690	14203690	estimated_end	14115690
	located_end	14203690		
CH321-37F05 X	21407488	21495488	located_end	21407488
	estimated_end	21495488		
CH321-37F09 2L	16323005	16411005	estimated_end	16323005
	located_end	16411005		
CH321-37F11 2L	1197738	1285738	located_end	1197738
	estimated_end	1285738		
CH321-37F12 3R	10986920	11074920	located_end	10986920
	estimated_end	11074920		
CH321-37F14 3R	10731139	10819139	located_end	10731139
	estimated_end	10819139		
CH321-37F15 3L	11104809	11192809	estimated_end	11104809
	located_end	11192809		
CH321-37F22 3L	23673634	23761634	located_end	23673634
	estimated_end	23761634		
CH321-37F24 X	16719820	16807820	located_end	16719820
	estimated_end	16807820		

CH321-37G01 2R	8615745	8703745	estimated_end	8615745
	located_end	8703745		
CH321-37G03 2R	11633399	11721399	located_end	11633399
	estimated_end	11721399		
CH321-37G04 2L	18019637	18107637	estimated_end	18019637
	located_end	18107637		
CH321-37G06 3R	6824785	6912785	estimated_end	6824785
	located_end	6912785		
CH321-37G07 3L	5955951	6043951	estimated_end	5955951
	located_end	6043951		
CH321-37G10 2R	16973364	17061364	estimated_end	16973364
	located_end	17061364		
CH321-37G13 3R	5630962	5718962	estimated_end	5630962
	located_end	5718962		
CH321-37G15 X	5124850	5212850	estimated_end	5124850
	located_end	5212850		
CH321-37G17 X	5792449	5880449	estimated_end	5792449
	located_end	5880449		
CH321-37G18 2R	5090729	5178729	located_end	5090729
	estimated_end	5178729		
CH321-37G19 X	12283907	12371907	located_end	12283907
	estimated_end	12371907		
CH321-37G20 3R	1887420	1975420	estimated_end	1887420
	located_end	1975420		
CH321-37G22 2L	8349671	8437671	located_end	8349671
	estimated_end	8437671		
CH321-37G23 X	18519268	18607268	located_end	18519268
	estimated_end	18607268		
CH321-37G24 2L	17511994	17599994	located_end	17511994
	estimated_end	17599994		
CH321-37H09 3L	18118298	18206298	estimated_end	18118298
	located_end	18206298		
CH321-37H11 2L	10313179	10401179	located_end	10313179
	estimated_end	10401179		
CH321-37H12 2L	10207469	10295469	located_end	10207469
	estimated_end	10295469		
CH321-37H15 X	8796639	8884639	estimated_end	8796639
	located_end	8884639		
CH321-37H16 2L	19748751	19836751	estimated_end	19748751
	located_end	19836751		
CH321-37H18 3R	11407497	11495497	estimated_end	11407497
	located_end	11495497		
CH321-37H20 2R	16883712	16971712	estimated_end	16883712
	located_end	16971712		
CH321-37H21 2L	13726267	13814267	estimated_end	13726267
	located_end	13814267		
CH321-37H22 3R	9146018	9234018	located_end	9146018
	estimated_end	9234018		
CH321-37H23 2L	13079682	13167682	located_end	13079682
	estimated_end	13167682		
CH321-37H24 3L	21494093	21582093	estimated_end	21494093
	located_end	21582093		
CH321-37I04 3L	4404125	4492125	located_end	4404125
	estimated_end	4492125		

CH321-37I10 3R	18408584	18496584	estimated_end	18408584
	located_end	18496584		
CH321-37I11 X	5074505	5162505	located_end	5074505
	estimated_end	5162505		
CH321-37I12 2L	3213181	3301181	estimated_end	3213181
	located_end	3301181		
CH321-37I13 3L	18673474	18761474	located_end	18673474
	estimated_end	18761474		
CH321-37I15 3L	11697245	11785245	estimated_end	11697245
	located_end	11785245		
CH321-37I16 3R	10237627	10325627	located_end	10237627
	estimated_end	10325627		
CH321-37I17 X	17443757	17531757	located_end	17443757
	estimated_end	17531757		
CH321-37I19 3L	17495250	17583250	estimated_end	17495250
	located_end	17583250		
CH321-37I20 ArmU	9707959	9795959	estimated_end	9707959
	located_end	9795959		
CH321-37I21 2R	10046860	10134860	located_end	10046860
	estimated_end	10134860		
CH321-37I23 4	1135421	1223421	located_end	1135421
	estimated_end	1223421		
CH321-37J04 2L	20575629	20663629	estimated_end	20575629
	located_end	20663629		
CH321-37J07 2R	14857801	14945801	located_end	14857801
	estimated_end	14945801		
CH321-37J09 2R	3679408	3767408	estimated_end	3679408
	located_end	3767408		
CH321-37J10 2R	14959371	15047371	estimated_end	14959371
	located_end	15047371		
CH321-37J11 3L	2860137	2948137	estimated_end	2860137
	located_end	2948137		
CH321-37J12 2R	5146683	5234683	estimated_end	5146683
	located_end	5234683		
CH321-37J15 X	19158801	19246801	located_end	19158801
	estimated_end	19246801		
CH321-37J16 2R	9838643	9926643	located_end	9838643
	estimated_end	9926643		
CH321-37J20 3R	1308014	1396014	located_end	1308014
	estimated_end	1396014		
CH321-37J22 3L	24256346	24344346	located_end	24256346
	estimated_end	24344346		
CH321-37K01 2L	12703890	12791890	located_end	12703890
	estimated_end	12791890		
CH321-37K06 3R	18972672	19060672	estimated_end	18972672
	located_end	19060672		
CH321-37K07 2R	4768250	4856250	estimated_end	4768250
	located_end	4856250		
CH321-37K13 2R	5940791	6028791	located_end	5940791
	estimated_end	6028791		
CH321-37K14 2R	3898115	3986115	located_end	3898115
	estimated_end	3986115		
CH321-37K16 3R	9967963	10055963	located_end	9967963
	estimated_end	10055963		

CH321-37K17 3L	10955566	11043566	located_end	10955566
	estimated_end	11043566		
CH321-37K18 2L	3207165	3295165	estimated_end	3207165
	located_end	3295165		
CH321-37K20 3L	22119732	22207732	located_end	22119732
	estimated_end	22207732		
CH321-37K24 2R	7941360	8029360	estimated_end	7941360
	located_end	8029360		
CH321-37L01 X	12845402	12933402	located_end	12845402
	estimated_end	12933402		
CH321-37L05 2R	15383260	15471260	estimated_end	15383260
	located_end	15471260		
CH321-37L15 2L	17389964	17477964	located_end	17389964
	estimated_end	17477964		
CH321-37L17 3R	5165080	5253080	estimated_end	5165080
	located_end	5253080		
CH321-37L19 2L	8541457	8629457	located_end	8541457
	estimated_end	8629457		
CH321-37L20 3L	22557756	22645756	estimated_end	22557756
	located_end	22645756		
CH321-37M01 3R	15332073	15420073	estimated_end	15332073
	located_end	15420073		
CH321-37M02 3R	22810170	22898170	estimated_end	22810170
	located_end	22898170		
CH321-37M04 X	18437032	18525032	estimated_end	18437032
	located_end	18525032		
CH321-37M11 2R	17236150	17324150	estimated_end	17236150
	located_end	17324150		
CH321-37M16 2L	6546132	6634132	located_end	6546132
	estimated_end	6634132		
CH321-37M22 2R	1206411	1294411	estimated_end	1206411
	located_end	1294411		
CH321-37M23 3Rhet	2032219	2120219	located_end	2032219
	estimated_end	2120219		
CH321-37M24 2L	9127645	9215645	estimated_end	9127645
	located_end	9215645		
CH321-37N01 3R	13580751	13668751	located_end	13580751
	estimated_end	13668751		
CH321-37N09 3R	8280776	8368776	estimated_end	8280776
	located_end	8368776		
CH321-37N20 2L	8985657	9073657	located_end	8985657
	estimated_end	9073657		
CH321-37N24 2R	13785938	13873938	estimated_end	13785938
	located_end	13873938		
CH321-37O01 2R	11563026	11651026	estimated_end	11563026
	located_end	11651026		
CH321-37O06 3R	20066754	20154754	located_end	20066754
	estimated_end	20154754		
CH321-37O13 3R	16034999	16122999	located_end	16034999
	estimated_end	16122999		
CH321-37O21 3R	23412805	23500805	located_end	23412805
	estimated_end	23500805		
CH321-37P01 2L	5921444	6009444	estimated_end	5921444
	located_end	6009444		

CH321-37P02 2RHet	1382489	1470489	estimated_end	1382489
	located_end	1470489		
CH321-37P03 X	15643216	15731216	estimated_end	15643216
	located_end	15731216		
CH321-37P11 X	4586339	4674339	estimated_end	4586339
	located_end	4674339		
CH321-37P17 3R	23057847	23145847	estimated_end	23057847
	located_end	23145847		
CH321-37P19 3R	18443429	18531429	estimated_end	18443429
	located_end	18531429		
CH321-37P20 3R	19222527	19310527	located_end	19222527
	estimated_end	19310527		
CH321-37P21 X	16964236	17052236	located_end	16964236
	estimated_end	17052236		
CH321-37P24 3R	2933814	3021814	estimated_end	2933814
	located_end	3021814		
CH321-38A21 2L	9421758	9509758	located_end	9421758
	estimated_end	9509758		
CH321-38A24 2L	19544798	19632798	located_end	19544798
	estimated_end	19632798		
CH321-38B17 X	5908668	5996668	located_end	5908668
	estimated_end	5996668		
CH321-38C01 2L	14892719	14980719	located_end	14892719
	estimated_end	14980719		
CH321-38C07 3R	17606303	17694303	estimated_end	17606303
	located_end	17694303		
CH321-38C08 2L	8717046	8805046	located_end	8717046
	estimated_end	8805046		
CH321-38C15 3R	11726435	11814435	estimated_end	11726435
	located_end	11814435		
CH321-38C22 2R	14313280	14401280	located_end	14313280
	estimated_end	14401280		
CH321-38C24 2L	19428714	19516714	estimated_end	19428714
	located_end	19516714		
CH321-38D09 2L	4011180	4099180	located_end	4011180
	estimated_end	4099180		
CH321-38D13 2L	12338833	12426833	located_end	12338833
	estimated_end	12426833		
CH321-38D14 3R	3071644	3159644	estimated_end	3071644
	located_end	3159644		
CH321-38D17 X	10365879	10453879	located_end	10365879
	estimated_end	10453879		
CH321-38D18 3R	17606303	17694303	estimated_end	17606303
	located_end	17694303		
CH321-38D19 2L	8140802	8228802	estimated_end	8140802
	located_end	8228802		
CH321-38D21 3R	26242550	26330550	estimated_end	26242550
	located_end	26330550		
CH321-38E04 3L	7374695	7462695	estimated_end	7374695
	located_end	7462695		
CH321-38E06 2R	9497396	9585396	estimated_end	9497396
	located_end	9585396		
CH321-38E07 3R	4468022	4556022	estimated_end	4468022
	located_end	4556022		

CH321-38E09 X	16406635	16494635	estimated_end	16406635
	located_end	16494635		
CH321-38E12 ArmU	9667630	9755630	estimated_end	9667630
	located_end	9755630		
CH321-38E15 2R	20799107	20887107	located_end	20799107
	estimated_end	20887107		
CH321-38E23 3R	6766270	6854270	located_end	6766270
	estimated_end	6854270		
CH321-38E24 2R	17858762	17946762	located_end	17858762
	estimated_end	17946762		
CH321-38F05 3R	22965664	23053664	estimated_end	22965664
	located_end	23053664		
CH321-38F06 2L	10576549	10664549	estimated_end	10576549
	located_end	10664549		
CH321-38F11 3R	16366953	16454953	located_end	16366953
	estimated_end	16454953		
CH321-38F12 2L	5814247	5902247	located_end	5814247
	estimated_end	5902247		
CH321-38F13 X	5017513	5105513	estimated_end	5017513
	located_end	5105513		
CH321-38F15 3R	15025248	15113248	estimated_end	15025248
	located_end	15113248		
CH321-38F16 X	9613334	9701334	located_end	9613334
	estimated_end	9701334		
CH321-38F22 2R	13054203	13142203	located_end	13054203
	estimated_end	13142203		
CH321-38G04 2L	20872481	20960481	located_end	20872481
	estimated_end	20960481		
CH321-38G08 X	17382765	17470765	located_end	17382765
	estimated_end	17470765		
CH321-38G10 3L	10569055	10657055	located_end	10569055
	estimated_end	10657055		
CH321-38G15 2L	16496754	16584754	located_end	16496754
	estimated_end	16584754		
CH321-38G18 2L	9644019	9732019	estimated_end	9644019
	located_end	9732019		
CH321-38G19 2R	12847933	12935933	estimated_end	12847933
	located_end	12935933		
CH321-38G24 X	7884592	7972592	located_end	7884592
	estimated_end	7972592		
CH321-38H03 2L	22830947	22918947	estimated_end	22830947
	located_end	22918947		
CH321-38H05 X	20392703	20480703	located_end	20392703
	estimated_end	20480703		
CH321-38H06 2R	11740715	11828715	estimated_end	11740715
	located_end	11828715		
CH321-38H07 2L	19673603	19761603	estimated_end	19673603
	located_end	19761603		
CH321-38H16 3R	1197111	1285111	estimated_end	1197111
	located_end	1285111		
CH321-38H18 2L	16364619	16452619	estimated_end	16364619
	located_end	16452619		
CH321-38H24 3L	14934470	15022470	estimated_end	14934470
	located_end	15022470		

CH321-38I03 X	19209358	19297358	estimated_end	19209358
	located_end	19297358		
CH321-38I08 2L	11711399	11799399	located_end	11711399
	estimated_end	11799399		
CH321-38I09 4	313068	401068	estimated_end	313068
	located_end	401068		
CH321-38I10 2L	9010051	9098051	estimated_end	9010051
	located_end	9098051		
CH321-38I15 3L	21519122	21607122	located_end	21519122
	estimated_end	21607122		
CH321-38I18 2L	1197529	1285529	estimated_end	1197529
	located_end	1285529		
CH321-38I24 3R	763905	851905	estimated_end	763905
	located_end	851905		
CH321-38J03 3L	14254561	14342561	located_end	14254561
	estimated_end	14342561		
CH321-38J05 2R	8559789	8647789	estimated_end	8559789
	located_end	8647789		
CH321-38J09 2L	19875545	19963545	located_end	19875545
	estimated_end	19963545		
CH321-38J10 X	5236756	5324756	estimated_end	5236756
	located_end	5324756		
CH321-38J11 X	16986105	17074105	estimated_end	16986105
	located_end	17074105		
CH321-38J12 ArmU	2542919	2630919	located_end	2542919
	estimated_end	2630919		
CH321-38J17 3R	19944642	20032642	estimated_end	19944642
	located_end	20032642		
CH321-38J20 3R	3262280	3350280	located_end	3262280
	estimated_end	3350280		
CH321-38J21 3L	11273584	11361584	located_end	11273584
	estimated_end	11361584		
CH321-38J22 3L	8317469	8405469	located_end	8317469
	estimated_end	8405469		
CH321-38J24 3R	13696581	13784581	located_end	13696581
	estimated_end	13784581		
CH321-38K03 3L	6915783	7003783	estimated_end	6915783
	located_end	7003783		
CH321-38K07 X	8626580	8714580	located_end	8626580
	estimated_end	8714580		
CH321-38K08 2L	15784639	15872639	located_end	15784639
	estimated_end	15872639		
CH321-38K14 2L	16909675	16997675	estimated_end	16909675
	located_end	16997675		
CH321-38K16 3R	6385252	6473252	located_end	6385252
	estimated_end	6473252		
CH321-38K24 3L	11967549	12055549	estimated_end	11967549
	located_end	12055549		
CH321-38L04 2L	3777429	3865429	located_end	3777429
	estimated_end	3865429		
CH321-38L12 3L	5468488	5556488	located_end	5468488
	estimated_end	5556488		
CH321-38L13 2R	15798189	15886189	located_end	15798189
	estimated_end	15886189		

CH321-38L21 2L	14117367	14205367	estimated_end	14117367
	located_end	14205367		
CH321-38L22 3R	23595903	23683903	located_end	23595903
	estimated_end	23683903		
CH321-38L24 3L	461266	549266	located_end	461266
	estimated_end	549266		
CH321-38M03 3L	5169561	5257561	estimated_end	5169561
	located_end	5257561		
CH321-38M05 3R	5683773	5771773	located_end	5683773
	estimated_end	5771773		
CH321-38M07 X	15877424	15965424	estimated_end	15877424
	located_end	15965424		
CH321-38M12 3R	14116819	14204819	estimated_end	14116819
	located_end	14204819		
CH321-38M18 3RHet	1218973	1306973	located_end	1218973
	estimated_end	1306973		
CH321-38M21 3L	16042320	16130320	located_end	16042320
	estimated_end	16130320		
CH321-38M22 2R	10680674	10768674	estimated_end	10680674
	located_end	10768674		
CH321-38N02 3LHet	2058091	2146091	estimated_end	2058091
	located_end	2146091		
CH321-38N04 3R	19238397	19326397	estimated_end	19238397
	located_end	19326397		
CH321-38N09 3L	20708767	20796767	estimated_end	20708767
	located_end	20796767		
CH321-38N14 3L	2874466	2962466	estimated_end	2874466
	located_end	2962466		
CH321-38N15 3L	5534764	5622764	located_end	5534764
	estimated_end	5622764		
CH321-38N18 2R	14817624	14905624	estimated_end	14817624
	located_end	14905624		
CH321-38N23 3L	6979770	7067770	estimated_end	6979770
	located_end	7067770		
CH321-38O04 2L	2357837	2445837	located_end	2357837
	estimated_end	2445837		
CH321-38O05 3LHet	406644	494644	estimated_end	406644
	located_end	494644		
CH321-38O07 3L	15619798	15707798	estimated_end	15619798
	located_end	15707798		
CH321-38O08 2R	19413999	19501999	estimated_end	19413999
	located_end	19501999		
CH321-38O12 2R	4626988	4714988	located_end	4626988
	estimated_end	4714988		
CH321-38O19 3L	19377200	19465200	located_end	19377200
	estimated_end	19465200		
CH321-38O21 3L	5734927	5822927	located_end	5734927
	estimated_end	5822927		
CH321-38P08 ArmU	3940337	4028337	estimated_end	3940337
	located_end	4028337		
CH321-38P11 2L	10028668	10116668	located_end	10028668
	estimated_end	10116668		
CH321-38P16 3R	21916758	22004758	located_end	21916758
	estimated_end	22004758		

CH321-38P20 3L	13701420	13789420	located_end	13701420
	estimated_end	13789420		
CH321-38P23 3L	4846654	4934654	estimated_end	4846654
	located_end	4934654		
CH321-39A02 X	21011071	21099071	located_end	21011071
	estimated_end	21099071		
CH321-39A08 3R	4003309	4091309	located_end	4003309
	estimated_end	4091309		
CH321-39A22 2L	7478887	7566887	located_end	7478887
	estimated_end	7566887		
CH321-39B10 2R	3747436	3835436	estimated_end	3747436
	located_end	3835436		
CH321-39B15 2R	5384294	5472294	located_end	5384294
	estimated_end	5472294		
CH321-39B17 3R	19380095	19468095	estimated_end	19380095
	located_end	19468095		
CH321-39B18 3L	20016568	20104568	located_end	20016568
	estimated_end	20104568		
CH321-39B19 2L	7189775	7277775	located_end	7189775
	estimated_end	7277775		
CH321-39B22 2R	20508963	20596963	estimated_end	20508963
	located_end	20596963		
CH321-39B23 2R	12163367	12251367	located_end	12163367
	estimated_end	12251367		
CH321-39C04 2R	6644156	6732156	estimated_end	6644156
	located_end	6732156		
CH321-39C06 X	22278741	22366741	located_end	22278741
	estimated_end	22366741		
CH321-39C08 2L	13096757	13184757	estimated_end	13096757
	located_end	13184757		
CH321-39C12 3L	2865144	2953144	located_end	2865144
	estimated_end	2953144		
CH321-39C19 3R	14274440	14362440	located_end	14274440
	estimated_end	14362440		
CH321-39C22 2R	884613	972613	located_end	884613
	estimated_end	972613		
CH321-39D04 2L	17064774	17152774	located_end	17064774
	estimated_end	17152774		
CH321-39D05 3L	15913769	16001769	estimated_end	15913769
	located_end	16001769		
CH321-39D06 X	2596414	2684414	estimated_end	2596414
	located_end	2684414		
CH321-39D10 2L	14744555	14832555	located_end	14744555
	estimated_end	14832555		
CH321-39D16 3L	5276711	5364711	estimated_end	5276711
	located_end	5364711		
CH321-39D23 3L	10362587	10450587	estimated_end	10362587
	located_end	10450587		
CH321-39E04 3R	18042617	18130617	estimated_end	18042617
	located_end	18130617		
CH321-39E05 2L	22243064	22331064	located_end	22243064
	estimated_end	22331064		
CH321-39E07 2R	3464001	3552001	located_end	3464001
	estimated_end	3552001		

CH321-39E15 2R	18095715	18183715	located_end	18095715
	estimated_end	18183715		
CH321-39E22 2R	5219120	5307120	estimated_end	5219120
	located_end	5307120		
CH321-39E24 3R	6714148	6802148	located_end	6714148
	estimated_end	6802148		
CH321-39F04 2L	16190592	16278592	estimated_end	16190592
	located_end	16278592		
CH321-39F11 3L	1814647	1902647	estimated_end	1814647
	located_end	1902647		
CH321-39F18 2R	15510435	15598435	estimated_end	15510435
	located_end	15598435		
CH321-39F19 X	10769051	10857051	located_end	10769051
	estimated_end	10857051		
CH321-39F22 X	2406627	2494627	located_end	2406627
	estimated_end	2494627		
CH321-39F23 3LHet	1352030	1440030	estimated_end	1352030
	located_end	1440030		
CH321-39G01 2R	15553292	15641292	located_end	15553292
	estimated_end	15641292		
CH321-39G04 X	2329894	2417894	estimated_end	2329894
	located_end	2417894		
CH321-39G06 3L	18148950	18236950	located_end	18148950
	estimated_end	18236950		
CH321-39G07 2R	803388	891388	estimated_end	803388
	located_end	891388		
CH321-39G15 2R	19279862	19367862	located_end	19279862
	estimated_end	19367862		
CH321-39G16 X	8964819	9052819	estimated_end	8964819
	located_end	9052819		
CH321-39G20 3L	12684344	12772344	located_end	12684344
	estimated_end	12772344		
CH321-39H04 3L	4931515	5019515	estimated_end	4931515
	located_end	5019515		
CH321-39H07 X	16861699	16949699	located_end	16861699
	estimated_end	16949699		
CH321-39H19 3R	20847125	20935125	estimated_end	20847125
	located_end	20935125		
CH321-39H21 3R	26109275	26197275	located_end	26109275
	estimated_end	26197275		
CH321-39H23 2R	11161774	11249774	located_end	11161774
	estimated_end	11249774		
CH321-39I02 X	5678972	5766972	estimated_end	5678972
	located_end	5766972		
CH321-39I03 3L	11310368	11398368	estimated_end	11310368
	located_end	11398368		
CH321-39I05 3R	9048271	9136271	estimated_end	9048271
	located_end	9136271		
CH321-39I08 3L	15579510	15667510	located_end	15579510
	estimated_end	15667510		
CH321-39I11 2R	4138229	4226229	estimated_end	4138229
	located_end	4226229		
CH321-39I14 3R	19004505	19092505	located_end	19004505
	estimated_end	19092505		

CH321-39I15 3R	21704508	21792508	estimated_end	21704508
	located_end	21792508		
CH321-39I19 X	13844962	13932962	located_end	13844962
	estimated_end	13932962		
CH321-39I22 2L	17295685	17383685	estimated_end	17295685
	located_end	17383685		
CH321-39J01 2L	17054219	17142219	estimated_end	17054219
	located_end	17142219		
CH321-39J05 3R	5812289	5900289	estimated_end	5812289
	located_end	5900289		
CH321-39J07 2R	13469773	13557773	located_end	13469773
	estimated_end	13557773		
CH321-39J11 3L	7765240	7853240	estimated_end	7765240
	located_end	7853240		
CH321-39J12 2L	15617557	15705557	located_end	15617557
	estimated_end	15705557		
CH321-39J19 X	7356647	7444647	estimated_end	7356647
	located_end	7444647		
CH321-39J23 2L	16380541	16468541	estimated_end	16380541
	located_end	16468541		
CH321-39K03 X	12051600	12139600	located_end	12051600
	estimated_end	12139600		
CH321-39K07 3R	1560370	1648370	located_end	1560370
	estimated_end	1648370		
CH321-39K11 2R	20187996	20275996	estimated_end	20187996
	located_end	20275996		
CH321-39K12 X	15632680	15720680	estimated_end	15632680
	located_end	15720680		
CH321-39K15 3R	15336242	15424242	located_end	15336242
	estimated_end	15424242		
CH321-39K16 3R	9774702	9862702	estimated_end	9774702
	located_end	9862702		
CH321-39K20 3R	17656804	17744804	located_end	17656804
	estimated_end	17744804		
CH321-39K21 X	19146911	19234911	estimated_end	19146911
	located_end	19234911		
CH321-39L05 3R	5296061	5384061	estimated_end	5296061
	located_end	5384061		
CH321-39L07 2R	9316791	9404791	estimated_end	9316791
	located_end	9404791		
CH321-39L09 2L	1052526	1140526	located_end	1052526
	estimated_end	1140526		
CH321-39L11 2L	8587164	8675164	estimated_end	8587164
	located_end	8675164		
CH321-39L14 X	15253870	15341870	located_end	15253870
	estimated_end	15341870		
CH321-39L21 3R	15753825	15841825	estimated_end	15753825
	located_end	15841825		
CH321-39L22 2L	12810438	12898438	estimated_end	12810438
	located_end	12898438		
CH321-39L23 3L	10510051	10598051	located_end	10510051
	estimated_end	10598051		
CH321-39L24 3L	6254439	6342439	located_end	6254439
	estimated_end	6342439		

CH321-39M03 3R	18411352	18499352	estimated_end	18411352
	located_end	18499352		
CH321-39M04 3L	22882728	22970728	located_end	22882728
	estimated_end	22970728		
CH321-39M05 2R	8427148	8515148	estimated_end	8427148
	located_end	8515148		
CH321-39M07 2L	19428235	19516235	located_end	19428235
	estimated_end	19516235		
CH321-39M10 3R	9141499	9229499	estimated_end	9141499
	located_end	9229499		
CH321-39M12 3R	22196821	22284821	located_end	22196821
	estimated_end	22284821		
CH321-39M14 3L	10259216	10347216	located_end	10259216
	estimated_end	10347216		
CH321-39M15 2L	9443130	9531130	estimated_end	9443130
	located_end	9531130		
CH321-39M17 2R	4507321	4595321	located_end	4507321
	estimated_end	4595321		
CH321-39M19 2R	11777979	11865979	estimated_end	11777979
	located_end	11865979		
CH321-39M20 3R	9524119	9612119	located_end	9524119
	estimated_end	9612119		
CH321-39N03 3L	14307167	14395167	estimated_end	14307167
	located_end	14395167		
CH321-39N04 3R	13272470	13360470	estimated_end	13272470
	located_end	13360470		
CH321-39N05 3L	746823	834823	located_end	746823
	estimated_end	834823		
CH321-39N06 X	11603671	11691671	located_end	11603671
	estimated_end	11691671		
CH321-39N07 3L	3648961	3736961	estimated_end	3648961
	located_end	3736961		
CH321-39N08 2L	18206922	18294922	estimated_end	18206922
	located_end	18294922		
CH321-39N11 3R	20266803	20354803	estimated_end	20266803
	located_end	20354803		
CH321-39N12 2L	16494551	16582551	estimated_end	16494551
	located_end	16582551		
CH321-39N14 2L	9807531	9895531	estimated_end	9807531
	located_end	9895531		
CH321-39N15 2L	20682773	20770773	located_end	20682773
	estimated_end	20770773		
CH321-39N16 2R	10842665	10930665	located_end	10842665
	estimated_end	10930665		
CH321-39N17 3R	25423816	25511816	estimated_end	25423816
	located_end	25511816		
CH321-39N19 2R	12582724	12670724	estimated_end	12582724
	located_end	12670724		
CH321-39N22 3R	8985325	9073325	located_end	8985325
	estimated_end	9073325		
CH321-39O01 2R	1958857	2046857	estimated_end	1958857
	located_end	2046857		
CH321-39O04 3L	7625800	7713800	estimated_end	7625800
	located_end	7713800		

CH321-39O05 2L	20684624	20772624	estimated_end	20684624
	located_end	20772624		
CH321-39O06 3R	16295211	16383211	located_end	16295211
	estimated_end	16383211		
CH321-39O07 3R	20256097	20344097	estimated_end	20256097
	located_end	20344097		
CH321-39O09 X	6964395	7052395	located_end	6964395
	estimated_end	7052395		
CH321-39O13 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-39O14 3R	7297480	7385480	estimated_end	7297480
	located_end	7385480		
CH321-39O15 2L	10169841	10257841	estimated_end	10169841
	located_end	10257841		
CH321-39O21 3R	25205232	25293232	estimated_end	25205232
	located_end	25293232		
CH321-39P01 3R	944327	1032327	located_end	944327
	estimated_end	1032327		
CH321-39P05 3RHet	1723607	1811607	estimated_end	1723607
	located_end	1811607		
CH321-39P07 3R	16175885	16263885	located_end	16175885
	estimated_end	16263885		
CH321-39P09 2R	9885018	9973018	located_end	9885018
	estimated_end	9973018		
CH321-39P10 3L	14495196	14583196	estimated_end	14495196
	located_end	14583196		
CH321-39P11 3L	10142574	10230574	located_end	10142574
	estimated_end	10230574		
CH321-39P19 2L	13580070	13668070	located_end	13580070
	estimated_end	13668070		
CH321-39P23 2R	20549017	20637017	estimated_end	20549017
	located_end	20637017		
CH321-40A05 2L	10551684	10639684	estimated_end	10551684
	located_end	10639684		
CH321-40A07 2L	17716450	17804450	located_end	17716450
	estimated_end	17804450		
CH321-40A10 2R	17830917	17918917	located_end	17830917
	estimated_end	17918917		
CH321-40A15 3R	5960784	6048784	located_end	5960784
	estimated_end	6048784		
CH321-40A17 3L	13113366	13201366	located_end	13113366
	estimated_end	13201366		
CH321-40B03 3R	8400380	8488380	located_end	8400380
	estimated_end	8488380		
CH321-40B06 2R	20127860	20215860	located_end	20127860
	estimated_end	20215860		
CH321-40B07 X	3935108	4023108	located_end	3935108
	estimated_end	4023108		
CH321-40B08 3R	15978598	16066598	estimated_end	15978598
	located_end	16066598		
CH321-40B09 3R	18884801	18972801	estimated_end	18884801
	located_end	18972801		
CH321-40B15 2R	14367848	14455848	estimated_end	14367848
	located_end	14455848		

CH321-40B17 X	17846729	17934729	located_end	17846729
	estimated_end	17934729		
CH321-40B18 3R	19326574	19414574	located_end	19326574
	estimated_end	19414574		
CH321-40B21 3R	10669197	10757197	estimated_end	10669197
	located_end	10757197		
CH321-40B22 2L	12444	100444	located_end	12444
	estimated_end	100444		
CH321-40B23 2L	5248518	5336518	estimated_end	5248518
	located_end	5336518		
CH321-40B24 3LHet	1732340	1820340	estimated_end	1732340
	located_end	1820340		
CH321-40C01 2R	2405879	2493879	located_end	2405879
	estimated_end	2493879		
CH321-40C03 2R	16225184	16313184	located_end	16225184
	estimated_end	16313184		
CH321-40C05 2L	16036588	16124588	located_end	16036588
	estimated_end	16124588		
CH321-40C07 3L	6462561	6550561	located_end	6462561
	estimated_end	6550561		
CH321-40C15 3L	11269045	11357045	located_end	11269045
	estimated_end	11357045		
CH321-40C17 X	19950726	20038726	located_end	19950726
	estimated_end	20038726		
CH321-40C18 2L	18510270	18598270	estimated_end	18510270
	located_end	18598270		
CH321-40C19 3L	17828388	17916388	estimated_end	17828388
	located_end	17916388		
CH321-40C24 2L	7044941	7132941	estimated_end	7044941
	located_end	7132941		
CH321-40D01 ArmU	9795956	9883956	located_end	9795956
	estimated_end	9883956		
CH321-40D04 X	17804961	17892961	located_end	17804961
	estimated_end	17892961		
CH321-40D07 3L	20885430	20973430	estimated_end	20885430
	located_end	20973430		
CH321-40D09 3L	11606015	11694015	estimated_end	11606015
	located_end	11694015		
CH321-40D14 2R	7345409	7433409	located_end	7345409
	estimated_end	7433409		
CH321-40D15 3R	11780781	11868781	located_end	11780781
	estimated_end	11868781		
CH321-40D19 2R	10586147	10674147	located_end	10586147
	estimated_end	10674147		
CH321-40D20 3R	15841041	15929041	located_end	15841041
	estimated_end	15929041		
CH321-40D22 3R	18226434	18314434	estimated_end	18226434
	located_end	18314434		
CH321-40D24 3R	20578171	20666171	located_end	20578171
	estimated_end	20666171		
CH321-40E01 3R	27633615	27721615	located_end	27633615
	estimated_end	27721615		
CH321-40E03 2R	18776811	18864811	estimated_end	18776811
	located_end	18864811		

CH321-40E04 3L	7530327	7618327	estimated_end	7530327
	located_end	7618327		
CH321-40E05 3R	18939547	19027547	located_end	18939547
	estimated_end	19027547		
CH321-40E06 3R	22961158	23049158	located_end	22961158
	estimated_end	23049158		
CH321-40E17 3L	7985769	8073769	located_end	7985769
	estimated_end	8073769		
CH321-40E20 2L	15214572	15302572	estimated_end	15214572
	located_end	15302572		
CH321-40F05 X	19321021	19409021	located_end	19321021
	estimated_end	19409021		
CH321-40F09 3L	20491537	20579537	located_end	20491537
	estimated_end	20579537		
CH321-40F13 X	2146589	2234589	located_end	2146589
	estimated_end	2234589		
CH321-40F21 3L	6516532	6604532	estimated_end	6516532
	located_end	6604532		
CH321-40F24 X	7997174	8085174	located_end	7997174
	estimated_end	8085174		
CH321-40G06 3R	17733402	17821402	estimated_end	17733402
	located_end	17821402		
CH321-40G08 2R	11460318	11548318	located_end	11460318
	estimated_end	11548318		
CH321-40G10 3L	8747804	8835804	estimated_end	8747804
	located_end	8835804		
CH321-40G21 3R	13906983	13994983	located_end	13906983
	estimated_end	13994983		
CH321-40G24 3R	23431236	23519236	located_end	23431236
	estimated_end	23519236		
CH321-40H02 2R	10105256	10193256	estimated_end	10105256
	located_end	10193256		
CH321-40H03 3R	18782968	18870968	located_end	18782968
	estimated_end	18870968		
CH321-40H06 3R	20811511	20899511	estimated_end	20811511
	located_end	20899511		
CH321-40H13 2R	13832011	13920011	located_end	13832011
	estimated_end	13920011		
CH321-40H16 3R	2355594	2443594	located_end	2355594
	estimated_end	2443594		
CH321-40H18 3L	5779209	5867209	estimated_end	5779209
	located_end	5867209		
CH321-40H19 3L	13875682	13963682	estimated_end	13875682
	located_end	13963682		
CH321-40H20 2L	15467210	15555210	located_end	15467210
	estimated_end	15555210		
CH321-40H24 3L	58492	146492	estimated_end	58492
	located_end	146492	located_end	146492
CH321-40I01 3R	26316700	26404700	located_end	26316700
	estimated_end	26404700		
CH321-40I05 2L	2644052	2732052	located_end	2644052
	estimated_end	2732052		
CH321-40I07 3L	3234439	3322439	located_end	3234439
	estimated_end	3322439		

CH321-40I13 3R	720468	808468	located_end	720468
	estimated_end	808468		
CH321-40I16 2R	17870729	17958729	located_end	17870729
	estimated_end	17958729		
CH321-40I17 X	20030741	20118741	located_end	20030741
	estimated_end	20118741		
CH321-40I19 2R	11240092	11328092	estimated_end	11240092
	located_end	11328092		
CH321-40J01 3L	12498703	12586703	estimated_end	12498703
	located_end	12586703		
CH321-40J02 ArmU	8007444	8095444	located_end	8007444
	estimated_end	8095444		
CH321-40J04 2L	6549094	6637094	estimated_end	6549094
	located_end	6637094		
CH321-40J08 3R	1508126	1596126	located_end	1508126
	estimated_end	1596126		
CH321-40J09 2R	15844605	15932605	estimated_end	15844605
	located_end	15932605		
CH321-40J11 2R	6840441	6928441	estimated_end	6840441
	located_end	6928441		
CH321-40J23 3L	602163	690163	located_end	602163
	estimated_end	690163		
CH321-40K03 3L	21338425	21426425	estimated_end	21338425
	located_end	21426425		
CH321-40K04 3R	24370228	24458228	located_end	24370228
	estimated_end	24458228		
CH321-40K05 2R	4593254	4681254	estimated_end	4593254
	located_end	4681254		
CH321-40K07 3R	81882	169882	estimated_end	81882
	located_end	169882	located_end	169882
CH321-40K11 3L	17901995	17989995	located_end	17901995
	estimated_end	17989995		
CH321-40K14 2R	1693447	1781447	estimated_end	1693447
	located_end	1781447		
CH321-40K16 X	15070957	15158957	estimated_end	15070957
	located_end	15158957		
CH321-40K20 3R	6236215	6324215	located_end	6236215
	estimated_end	6324215		
CH321-40K21 2L	4124393	4212393	estimated_end	4124393
	located_end	4212393		
CH321-40K22 2R	3768777	3856777	estimated_end	3768777
	located_end	3856777		
CH321-40K24 3L	4787824	4875824	estimated_end	4787824
	located_end	4875824		
CH321-40L02 3R	11504217	11592217	estimated_end	11504217
	located_end	11592217		
CH321-40L05 3L	7994327	8082327	estimated_end	7994327
	located_end	8082327		
CH321-40L06 3L	11680716	11768716	estimated_end	11680716
	located_end	11768716		
CH321-40L11 2L	21147950	21235950	located_end	21147950
	estimated_end	21235950		
CH321-40L12 2L	20921763	21009763	located_end	20921763
	estimated_end	21009763		

CH321-40L14 3L	8218535	8306535	located_end	8218535
	estimated_end	8306535		
CH321-40L15 X	14593708	14681708	estimated_end	14593708
	located_end	14681708		
CH321-40L17 3R	19599852	19687852	estimated_end	19599852
	located_end	19687852		
CH321-40L18 3L	7033906	7121906	located_end	7033906
	estimated_end	7121906		
CH321-40L21 2L	7921851	8009851	estimated_end	7921851
	located_end	8009851		
CH321-40L22 3R	705567	793567	estimated_end	705567
	located_end	793567		
CH321-40L24 2L	10760398	10848398	estimated_end	10760398
	located_end	10848398		
CH321-40M01 3L	14722197	14810197	located_end	14722197
	estimated_end	14810197		
CH321-40M03 2R	1126762	1214762	estimated_end	1126762
	located_end	1214762		
CH321-40M05 4	1069740	1157740	located_end	1069740
	estimated_end	1157740		
CH321-40M07 2L	22978505	23066505	located_end	22978505
	estimated_end	23066505		
CH321-40M08 2R	8422087	8510087	located_end	8422087
	estimated_end	8510087		
CH321-40M09 2R	11756014	11844014	estimated_end	11756014
	located_end	11844014		
CH321-40M10 3R	9949189	10037189	estimated_end	9949189
	located_end	10037189		
CH321-40M11 3L	3555439	3643439	located_end	3555439
	estimated_end	3643439		
CH321-40M12 3R	6426162	6514162	located_end	6426162
	estimated_end	6514162		
CH321-40M14 2L	7198444	7286444	estimated_end	7198444
	located_end	7286444		
CH321-40M19 2R	6437012	6525012	estimated_end	6437012
	located_end	6525012		
CH321-40M21 X	13313772	13401772	located_end	13313772
	estimated_end	13401772		
CH321-40M23 3R	2811543	2899543	estimated_end	2811543
	located_end	2899543		
CH321-40N01 X	14814464	14902464	located_end	14814464
	estimated_end	14902464		
CH321-40N02 3L	18001960	18089960	estimated_end	18001960
	located_end	18089960		
CH321-40N04 2R	10245498	10333498	estimated_end	10245498
	located_end	10333498		
CH321-40N08 X	17346331	17434331	estimated_end	17346331
	located_end	17434331		
CH321-40N10 2L	21854504	21942504	located_end	21854504
	estimated_end	21942504		
CH321-40N11 3R	7642613	7730613	located_end	7642613
	estimated_end	7730613		
CH321-40N14 2L	8201242	8289242	estimated_end	8201242
	located_end	8289242		

CH321-40N18 3R	23216774	23304774	estimated_end	23216774
	located_end	23304774		
CH321-40N20 3R	18212135	18300135	estimated_end	18212135
	located_end	18300135		
CH321-40N21 2R	20581645	20669645	estimated_end	20581645
	located_end	20669645		
CH321-40N22 3L	6708104	6796104	estimated_end	6708104
	located_end	6796104		
CH321-40O01 X	10021269	10109269	located_end	10021269
	estimated_end	10109269		
CH321-40O04 2L	11372351	11460351	located_end	11372351
	estimated_end	11460351		
CH321-40O05 2L	7251842	7339842	located_end	7251842
	estimated_end	7339842		
CH321-40O06 3R	8739988	8827988	estimated_end	8739988
	located_end	8827988		
CH321-40O07 2R	12188406	12276406	located_end	12188406
	estimated_end	12276406		
CH321-40O11 2R	2503880	2591880	estimated_end	2503880
	located_end	2591880		
CH321-40O13 2L	9974717	10062717	estimated_end	9974717
	located_end	10062717		
CH321-40O17 3L	20230903	20318903	estimated_end	20230903
	located_end	20318903		
CH321-40O21 2R	15671901	15759901	located_end	15671901
	estimated_end	15759901		
CH321-40O22 3L	92909	180909	estimated_end	92909
	located_end	180909		
CH321-40P06 2L	20966533	21054533	located_end	20966533
	estimated_end	21054533		
CH321-40P07 3LHet	922860	1010860	located_end	922860
	estimated_end	1010860		
CH321-40P13 3R	13134474	13222474	located_end	13134474
	estimated_end	13222474		
CH321-40P14 3R	23861084	23949084	located_end	23861084
	estimated_end	23949084		
CH321-40P18 X	7666687	7754687	estimated_end	7666687
	located_end	7754687		
CH321-40P20 3L	11960628	12048628	estimated_end	11960628
	located_end	12048628		
CH321-41A02 3L	6582692	6670692	estimated_end	6582692
	located_end	6670692		
CH321-41A04 3L	8807964	8895964	located_end	8807964
	estimated_end	8895964		
CH321-41A05 3R	14310829	14398829	estimated_end	14310829
	located_end	14398829		
CH321-41A06 2R	8552641	8640641	located_end	8552641
	estimated_end	8640641		
CH321-41A07 2L	13623489	13711489	located_end	13623489
	estimated_end	13711489		
CH321-41A08 3R	23738175	23826175	estimated_end	23738175
	located_end	23826175		
CH321-41A09 2R	15264793	15352793	estimated_end	15264793
	located_end	15352793		

CH321-41A10 2L	6728572	6816572	estimated_end	6728572
	located_end	6816572		
CH321-41A11 2R	17445360	17533360	estimated_end	17445360
	located_end	17533360		
CH321-41A12 X	10482408	10570408	located_end	10482408
	estimated_end	10570408		
CH321-41A13 3L	15057154	15145154	estimated_end	15057154
	located_end	15145154		
CH321-41A14 2R	3223310	3311310	estimated_end	3223310
	located_end	3311310		
CH321-41A15 3L	6923018	7011018	located_end	6923018
	estimated_end	7011018		
CH321-41A17 2L	18187575	18275575	located_end	18187575
	estimated_end	18275575		
CH321-41A18 X	2341652	2429652	estimated_end	2341652
	located_end	2429652		
CH321-41A19 3L	17651037	17739037	located_end	17651037
	estimated_end	17739037		
CH321-41A20 3L	17558115	17646115	located_end	17558115
	estimated_end	17646115		
CH321-41A21 2R	2792226	2880226	located_end	2792226
	estimated_end	2880226		
CH321-41A23 X	3498287	3586287	estimated_end	3498287
	located_end	3586287		
CH321-41A24 3L	13986572	14074572	estimated_end	13986572
	located_end	14074572		
CH321-41B01 3L	16400077	16488077	located_end	16400077
	estimated_end	16488077		
CH321-41B02 2R	379982	467982	estimated_end	379982
	located_end	467982		
CH321-41B04 2L	18468673	18556673	estimated_end	18468673
	located_end	18556673		
CH321-41B06 3L	6059783	6147783	estimated_end	6059783
	located_end	6147783		
CH321-41B08 3L	14543362	14631362	located_end	14543362
	estimated_end	14631362		
CH321-41B11 3R	3868790	3956790	located_end	3868790
	estimated_end	3956790		
CH321-41B14 2R	16450782	16538782	estimated_end	16450782
	located_end	16538782		
CH321-41B16 2R	3938109	4026109	located_end	3938109
	estimated_end	4026109		
CH321-41B18 2R	9509901	9597901	located_end	9509901
	estimated_end	9597901		
CH321-41B19 3R	5649812	5737812	estimated_end	5649812
	located_end	5737812		
CH321-41B21 2L	12001051	12089051	estimated_end	12001051
	located_end	12089051		
CH321-41B22 3L	22889331	22977331	estimated_end	22889331
	located_end	22977331		
CH321-41B23 X	1620555	1708555	estimated_end	1620555
	located_end	1708555		
CH321-41B24 2R	7860616	7948616	located_end	7860616
	estimated_end	7948616		

CH321-41C03 2R	5710883	5798883	estimated_end	5710883
	located_end	5798883		
CH321-41C07 3R	22364233	22452233	located_end	22364233
	estimated_end	22452233		
CH321-41C12 3R	18001179	18089179	located_end	18001179
	estimated_end	18089179		
CH321-41C17 X	20914735	21002735	estimated_end	20914735
	located_end	21002735		
CH321-41C21 3L	19428375	19516375	estimated_end	19428375
	located_end	19516375		
CH321-41C22 X	21459852	21547852	located_end	21459852
	estimated_end	21547852		
CH321-41D01 3R	4165883	4253883	located_end	4165883
	estimated_end	4253883		
CH321-41D02 3R	5181926	5269926	estimated_end	5181926
	located_end	5269926		
CH321-41D10 3L	1659985	1747985	estimated_end	1659985
	located_end	1747985		
CH321-41D16 2L	17178390	17266390	located_end	17178390
	estimated_end	17266390		
CH321-41D20 X	18743541	18831541	estimated_end	18743541
	located_end	18831541		
CH321-41D21 3R	22170700	22258700	located_end	22170700
	estimated_end	22258700		
CH321-41D23 2R	15833277	15921277	estimated_end	15833277
	located_end	15921277		
CH321-41E01 2R	14908747	14996747	estimated_end	14908747
	located_end	14996747		
CH321-41E09 ArmU	599453	687453	estimated_end	599453
	located_end	687453		
CH321-41E11 2L	2583357	2671357	estimated_end	2583357
	located_end	2671357		
CH321-41E13 X	22187293	22275293	located_end	22187293
	estimated_end	22275293		
CH321-41E14 3L	11212662	11300662	estimated_end	11212662
	located_end	11300662		
CH321-41E17 2R	20669480	20757480	estimated_end	20669480
	located_end	20757480		
CH321-41E21 2R	20293092	20381092	estimated_end	20293092
	located_end	20381092		
CH321-41F10 2L	17527619	17615619	located_end	17527619
	estimated_end	17615619		
CH321-41F15 3L	3623549	3711549	estimated_end	3623549
	located_end	3711549		
CH321-41F21 2L	3383773	3471773	located_end	3383773
	estimated_end	3471773		
CH321-41F22 3L	11038464	11126464	estimated_end	11038464
	located_end	11126464		
CH321-41F23 X	11792898	11880898	located_end	11792898
	estimated_end	11880898		
CH321-41G11 X	15498969	15586969	located_end	15498969
	estimated_end	15586969		
CH321-41G16 3L	7324924	7412924	estimated_end	7324924
	located_end	7412924		

CH321-41G24 2L	9049270	9137270	located_end	9049270
	estimated_end	9137270		
CH321-41H01 3L	22506114	22594114	estimated_end	22506114
	located_end	22594114		
CH321-41H02 X	14536415	14624415	located_end	14536415
	estimated_end	14624415		
CH321-41H05 X	11403112	11491112	located_end	11403112
	estimated_end	11491112		
CH321-41H14 X	2674130	2762130	located_end	2674130
	estimated_end	2762130		
CH321-41H15 2L	18299675	18387675	located_end	18299675
	estimated_end	18387675		
CH321-41H21 2R	15915218	16003218	estimated_end	15915218
	located_end	16003218		
CH321-41H22 3L	12505746	12593746	estimated_end	12505746
	located_end	12593746		
CH321-41H23 3R	7753363	7841363	estimated_end	7753363
	located_end	7841363		
CH321-41H24 2R	9044036	9132036	estimated_end	9044036
	located_end	9132036		
CH321-41I02 2R	9309023	9397023	located_end	9309023
	estimated_end	9397023		
CH321-41I09 3L	9630922	9718922	estimated_end	9630922
	located_end	9718922		
CH321-41I11 3L	6507438	6595438	located_end	6507438
	estimated_end	6595438		
CH321-41I12 3L	6507438	6595438	located_end	6507438
	estimated_end	6595438		
CH321-41I13 3L	6812925	6900925	located_end	6812925
	estimated_end	6900925		
CH321-41I14 2R	5048809	5136809	located_end	5048809
	estimated_end	5136809		
CH321-41I16 3L	16263169	16351169	estimated_end	16263169
	located_end	16351169		
CH321-41I18 3R	11243245	11331245	located_end	11243245
	estimated_end	11331245		
CH321-41I21 3L	10927938	11015938	located_end	10927938
	estimated_end	11015938		
CH321-41I23 2L	8529257	8617257	located_end	8529257
	estimated_end	8617257		
CH321-41J01 3L	2147957	2235957	estimated_end	2147957
	located_end	2235957		
CH321-41J10 3R	14574675	14662675	located_end	14574675
	estimated_end	14662675		
CH321-41J14 2R	18143646	18231646	located_end	18143646
	estimated_end	18231646		
CH321-41J17 2L	16511340	16599340	located_end	16511340
	estimated_end	16599340		
CH321-41J19 2L	9001490	9089490	estimated_end	9001490
	located_end	9089490		
CH321-41J20 3L	14729230	14817230	located_end	14729230
	estimated_end	14817230		
CH321-41J22 3RHet	1226864	1314864	located_end	1226864
	estimated_end	1314864		

CH321-41J23 3L	18000578	18088578	estimated_end	18000578
	located_end	18088578		
CH321-41K01 2R	6520789	6608789	estimated_end	6520789
	located_end	6608789		
CH321-41K05 2R	11847713	11935713	located_end	11847713
	estimated_end	11935713		
CH321-41K08 2L	1104496	1192496	located_end	1104496
	estimated_end	1192496		
CH321-41K09 3L	22833553	22921553	located_end	22833553
	estimated_end	22921553		
CH321-41K11 2R	17079396	17167396	estimated_end	17079396
	located_end	17167396		
CH321-41K12 X	11740056	11828056	located_end	11740056
	estimated_end	11828056		
CH321-41K14 2R	14307087	14395087	estimated_end	14307087
	located_end	14395087		
CH321-41K15 X	8851832	8939832	located_end	8851832
	estimated_end	8939832		
CH321-41K17 3R	7141407	7229407	located_end	7141407
	estimated_end	7229407		
CH321-41K19 2L	1828964	1916964	estimated_end	1828964
	located_end	1916964		
CH321-41K20 X	15240008	15328008	located_end	15240008
	estimated_end	15328008		
CH321-41K21 3R	18318955	18406955	estimated_end	18318955
	located_end	18406955		
CH321-41K22 3R	2380438	2468438	located_end	2380438
	estimated_end	2468438		
CH321-41K23 3R	22276820	22364820	located_end	22276820
	estimated_end	22364820		
CH321-41K24 3R	9413233	9501233	estimated_end	9413233
	located_end	9501233		
CH321-41L01 3L	9079583	9167583	estimated_end	9079583
	located_end	9167583		
CH321-41L03 2R	4415311	4503311	located_end	4415311
	estimated_end	4503311		
CH321-41L11 3L	4765876	4853876	located_end	4765876
	estimated_end	4853876		
CH321-41L18 X	15340607	15428607	estimated_end	15340607
	located_end	15428607		
CH321-41L19 2L	3463016	3551016	located_end	3463016
	estimated_end	3551016		
CH321-41L20 2R	8899759	8987759	located_end	8899759
	estimated_end	8987759		
CH321-41L21 3R	23861084	23949084	located_end	23861084
	estimated_end	23949084		
CH321-41L23 3R	21669489	21757489	estimated_end	21669489
	located_end	21757489		
CH321-41L24 3R	7049726	7137726	located_end	7049726
	estimated_end	7137726		
CH321-41M02 2R	888630	976630	estimated_end	888630
	located_end	976630		
CH321-41M03 2R	2944802	3032802	located_end	2944802
	estimated_end	3032802		

CH321-41M08 2L	2293899	2381899	estimated_end	2293899
	located_end	2381899		
CH321-41M11 2R	13884300	13972300	located_end	13884300
	estimated_end	13972300		
CH321-41M13 3R	7979259	8067259	estimated_end	7979259
	located_end	8067259		
CH321-41M14 2R	6889450	6977450	estimated_end	6889450
	located_end	6977450		
CH321-41M16 3L	10454051	10542051	estimated_end	10454051
	located_end	10542051		
CH321-41M17 X	9776291	9864291	located_end	9776291
	estimated_end	9864291		
CH321-41M18 3R	23368473	23456473	estimated_end	23368473
	located_end	23456473		
CH321-41M21 2R	14217718	14305718	estimated_end	14217718
	located_end	14305718		
CH321-41M23 3L	16448017	16536017	estimated_end	16448017
	located_end	16536017		
CH321-41M24 3LHet	239105	327105	located_end	239105
	estimated_end	327105		
CH321-41N02 3R	16961544	17049544	located_end	16961544
	estimated_end	17049544		
CH321-41N11 3L	24022905	24110905	located_end	24022905
	estimated_end	24110905		
CH321-41N13 3L	1569874	1657874	estimated_end	1569874
	located_end	1657874		
CH321-41N15 X	2854007	2942007	located_end	2854007
	estimated_end	2942007		
CH321-41N16 3L	6951914	7039914	estimated_end	6951914
	located_end	7039914		
CH321-41N17 3R	8986148	9074148	located_end	8986148
	estimated_end	9074148		
CH321-41N18 X	14371083	14459083	located_end	14371083
	estimated_end	14459083		
CH321-41N21 3R	19643418	19731418	located_end	19643418
	estimated_end	19731418		
CH321-41O01 3R	4157861	4245861	estimated_end	4157861
	located_end	4245861		
CH321-41O03 3R	3372799	3460799	located_end	3372799
	estimated_end	3460799		
CH321-41O04 2L	9678078	9766078	located_end	9678078
	estimated_end	9766078		
CH321-41O05 2L	8400963	8488963	located_end	8400963
	estimated_end	8488963		
CH321-41O09 3L	1886027	1974027	estimated_end	1886027
	located_end	1974027		
CH321-41O11 3L	10352169	10440169	estimated_end	10352169
	located_end	10440169		
CH321-41O13 3R	15324174	15412174	estimated_end	15324174
	located_end	15412174		
CH321-41O14 2R	4984597	5072597	estimated_end	4984597
	located_end	5072597		
CH321-41O15 3R	14267977	14355977	located_end	14267977
	estimated_end	14355977		

CH321-41O16 3L	19746353	19834353	estimated_end	19746353
	located_end	19834353		
CH321-41O17 3R	20771169	20859169	estimated_end	20771169
	located_end	20859169		
CH321-41O21 X	8352081	8440081	located_end	8352081
	estimated_end	8440081		
CH321-41O23 2L	9813741	9901741	located_end	9813741
	estimated_end	9901741		
CH321-41P01 3L	17140055	17228055	located_end	17140055
	estimated_end	17228055		
CH321-41P02 3R	19154472	19242472	estimated_end	19154472
	located_end	19242472		
CH321-41P03 3L	22658055	22746055	estimated_end	22658055
	located_end	22746055		
CH321-41P04 2R	11651436	11739436	located_end	11651436
	estimated_end	11739436		
CH321-41P05 2R	9553900	9641900	located_end	9553900
	estimated_end	9641900		
CH321-41P06 3L	4130543	4218543	estimated_end	4130543
	located_end	4218543		
CH321-41P07 ArmU	6322445	6410445	located_end	6322445
	estimated_end	6410445		
CH321-41P09 3R	12888882	12976882	located_end	12888882
	estimated_end	12976882		
CH321-41P10 X	18969228	19057228	located_end	18969228
	estimated_end	19057228		
CH321-41P11 3R	21735663	21823663	located_end	21735663
	estimated_end	21823663		
CH321-41P12 2L	7633849	7721849	estimated_end	7633849
	located_end	7721849		
CH321-41P15 3R	16438546	16526546	estimated_end	16438546
	located_end	16526546		
CH321-41P19 3L	19144098	19232098	estimated_end	19144098
	located_end	19232098		
CH321-41P21 3R	13734444	13822444	estimated_end	13734444
	located_end	13822444		
CH321-41P24 3L	13392348	13480348	located_end	13392348
	estimated_end	13480348		
CH321-42A01 3R	326422	414422	located_end	326422
	estimated_end	414422		
CH321-42A03 X	7228871	7316871	located_end	7228871
	estimated_end	7316871		
CH321-42A05 X	5191192	5279192	estimated_end	5191192
	located_end	5279192		
CH321-42A07 3R	16165600	16253600	estimated_end	16165600
	located_end	16253600		
CH321-42A08 2L	17678871	17766871	estimated_end	17678871
	located_end	17766871		
CH321-42A10 3L	11316363	11404363	located_end	11316363
	estimated_end	11404363		
CH321-42A14 3L	1441684	1529684	estimated_end	1441684
	located_end	1529684		
CH321-42A15 2L	18643152	18731152	estimated_end	18643152
	located_end	18731152		

CH321-42A17 3L	20495578	20583578	located_end	20495578
	estimated_end	20583578		
CH321-42A19 ArmU	4238735	4326735	located_end	4238735
	estimated_end	4326735		
CH321-42A20 X	14143763	14231763	estimated_end	14143763
	located_end	14231763		
CH321-42A21 2L	5471417	5559417	estimated_end	5471417
	located_end	5559417		
CH321-42A22 2L	6255422	6343422	located_end	6255422
	estimated_end	6343422		
CH321-42A23 3L	8343907	8431907	located_end	8343907
	estimated_end	8431907		
CH321-42B01 2R	15756082	15844082	estimated_end	15756082
	located_end	15844082		
CH321-42B02 2L	1858504	1946504	estimated_end	1858504
	located_end	1946504		
CH321-42B03 2R	17219959	17307959	estimated_end	17219959
	located_end	17307959		
CH321-42B05 4	567155	655155	located_end	567155
	estimated_end	655155		
CH321-42B06 2L	11324530	11412530	located_end	11324530
	estimated_end	11412530		
CH321-42B07 3R	14891467	14979467	located_end	14891467
	estimated_end	14979467		
CH321-42B08 X	11914380	12002380	estimated_end	11914380
	located_end	12002380		
CH321-42B09 2R	3429342	3517342	located_end	3429342
	estimated_end	3517342		
CH321-42B11 2R	11595144	11683144	estimated_end	11595144
	located_end	11683144		
CH321-42B12 X	4009802	4097802	located_end	4009802
	estimated_end	4097802		
CH321-42B13 3L	15371085	15459085	located_end	15371085
	estimated_end	15459085		
CH321-42B14 3L	18458477	18546477	estimated_end	18458477
	located_end	18546477		
CH321-42B15 2R	9892956	9980956	located_end	9892956
	estimated_end	9980956		
CH321-42B16 X	1714549	1802549	located_end	1714549
	estimated_end	1802549		
CH321-42B17 2L	10590649	10678649	estimated_end	10590649
	located_end	10678649		
CH321-42B18 3R	2789443	2877443	estimated_end	2789443
	located_end	2877443		
CH321-42B19 2L	7883009	7971009	estimated_end	7883009
	located_end	7971009		
CH321-42B20 3R	10761691	10849691	located_end	10761691
	estimated_end	10849691		
CH321-42B21 3R	15685241	15773241	located_end	15685241
	estimated_end	15773241		
CH321-42B22 3L	15120289	15208289	located_end	15120289
	estimated_end	15208289		
CH321-42B23 X	20906714	20994714	estimated_end	20906714
	located_end	20994714		

CH321-42B24 X	21080902	21168902	located_end	21080902
	estimated_end	21168902		
CH321-42C01 X	4834467	4922467	estimated_end	4834467
	located_end	4922467		
CH321-42C02 2L	20837119	20925119	estimated_end	20837119
	located_end	20925119		
CH321-42C03 3L	11947228	12035228	estimated_end	11947228
	located_end	12035228		
CH321-42C04 X	4718782	4806782	estimated_end	4718782
	located_end	4806782		
CH321-42C06 3L	16017817	16105817	located_end	16017817
	estimated_end	16105817		
CH321-42C09 X	8107924	8195924	estimated_end	8107924
	located_end	8195924		
CH321-42C10 3R	6508691	6596691	located_end	6508691
	estimated_end	6596691		
CH321-42C12 2L	20542491	20630491	located_end	20542491
	estimated_end	20630491		
CH321-42C14 3L	12296407	12384407	estimated_end	12296407
	located_end	12384407		
CH321-42C15 3L	17657804	17745804	estimated_end	17657804
	located_end	17745804		
CH321-42C16 2R	11983386	12071386	located_end	11983386
	estimated_end	12071386		
CH321-42C18 3LHet	1067209	1155209	estimated_end	1067209
	located_end	1155209		
CH321-42C19 X	18806229	18894229	estimated_end	18806229
	located_end	18894229		
CH321-42C20 2R	1690989	1778989	estimated_end	1690989
	located_end	1778989		
CH321-42C21 2L	1619463	1707463	estimated_end	1619463
	located_end	1707463		
CH321-42C22 3R	6768717	6856717	estimated_end	6768717
	located_end	6856717		
CH321-42C23 3L	3805824	3893824	located_end	3805824
	estimated_end	3893824		
CH321-42D01 3R	16498538	16586538	located_end	16498538
	estimated_end	16586538		
CH321-42D02 3R	13747661	13835661	located_end	13747661
	estimated_end	13835661		
CH321-42D03 2L	21553544	21641544	estimated_end	21553544
	located_end	21641544		
CH321-42D04 X	8220446	8308446	located_end	8220446
	estimated_end	8308446		
CH321-42D05 2L	11979943	12067943	located_end	11979943
	estimated_end	12067943		
CH321-42D06 2R	19970108	20058108	located_end	19970108
	estimated_end	20058108		
CH321-42D07 X	14998032	15086032	located_end	14998032
	estimated_end	15086032		
CH321-42D08 3R	24748219	24836219	estimated_end	24748219
	located_end	24836219		
CH321-42D09 2L	17179506	17267506	located_end	17179506
	estimated_end	17267506		

CH321-42D11 3R	13116662	13204662	located_end	13116662
	estimated_end	13204662		
CH321-42D13 3L	15538901	15626901	estimated_end	15538901
	located_end	15626901		
CH321-42D16 2R	597431	685431	estimated_end	597431
	located_end	685431		
CH321-42D18 3R	2291010	2379010	estimated_end	2291010
	located_end	2379010		
CH321-42D19 3L	16212576	16300576	estimated_end	16212576
	located_end	16300576		
CH321-42D20 2R	13983094	14071094	located_end	13983094
	estimated_end	14071094		
CH321-42D23 3L	695353	783353	located_end	695353
	estimated_end	783353		
CH321-42E01 2L	100422	188422	estimated_end	100422
	located_end	188422		
CH321-42E02 3R	2229143	2317143	estimated_end	2229143
	located_end	2317143		
CH321-42E04 3L	13069393	13157393	located_end	13069393
	estimated_end	13157393		
CH321-42E05 2L	3451676	3539676	estimated_end	3451676
	located_end	3539676		
CH321-42E07 3L	3509484	3597484	located_end	3509484
	estimated_end	3597484		
CH321-42E08 3L	15047542	15135542	estimated_end	15047542
	located_end	15135542		
CH321-42E09 2R	6613650	6701650	estimated_end	6613650
	located_end	6701650		
CH321-42E12 2L	9923210	10011210	located_end	9923210
	estimated_end	10011210		
CH321-42E13 2L	3995762	4083762	estimated_end	3995762
	located_end	4083762		
CH321-42E14 X	4153535	4241535	estimated_end	4153535
	located_end	4241535		
CH321-42E15 3L	21816359	21904359	located_end	21816359
	estimated_end	21904359		
CH321-42E18 X	3241346	3329346	located_end	3241346
	estimated_end	3329346		
CH321-42E19 3R	20511809	20599809	estimated_end	20511809
	located_end	20599809		
CH321-42E21 2L	12170877	12258877	estimated_end	12170877
	located_end	12258877		
CH321-42E23 3R	18017025	18105025	estimated_end	18017025
	located_end	18105025		
CH321-42F02 3R	1050989	1138989	located_end	1050989
	estimated_end	1138989		
CH321-42F04 2L	4187219	4275219	located_end	4187219
	estimated_end	4275219		
CH321-42F05 3R	15132056	15220056	located_end	15132056
	estimated_end	15220056		
CH321-42F06 3R	8323786	8411786	estimated_end	8323786
	located_end	8411786		
CH321-42F07 3R	23209391	23297391	estimated_end	23209391
	located_end	23297391		

CH321-42F09 2L	992534	1080534	estimated_end	992534
	located_end	1080534		
CH321-42F10 3L	9354583	9442583	estimated_end	9354583
	located_end	9442583		
CH321-42F11 3R	26929557	27017557	estimated_end	26929557
	located_end	27017557		
CH321-42F12 3L	3703991	3791991	located_end	3703991
	estimated_end	3791991		
CH321-42F15 2L	1079778	1167778	located_end	1079778
	estimated_end	1167778		
CH321-42F16 X	19532871	19620871	estimated_end	19532871
	located_end	19620871		
CH321-42F17 3R	14670333	14758333	located_end	14670333
	estimated_end	14758333		
CH321-42F18 2L	15013318	15101318	estimated_end	15013318
	located_end	15101318		
CH321-42F19 X	13624395	13712395	located_end	13624395
	estimated_end	13712395		
CH321-42F20 ArmU	9708223	9796223	estimated_end	9708223
	located_end	9796223		
CH321-42F24 2L	18154688	18242688	located_end	18154688
	estimated_end	18242688		
CH321-42G03 2L	6220831	6308831	located_end	6220831
	estimated_end	6308831		
CH321-42G04 2L	21733410	21821410	located_end	21733410
	estimated_end	21821410		
CH321-42G05 3R	12322123	12410123	located_end	12322123
	estimated_end	12410123		
CH321-42G09 3L	449517	537517	estimated_end	449517
	located_end	537517		
CH321-42G10 3L	20694446	20782446	estimated_end	20694446
	located_end	20782446		
CH321-42G11 3L	13970193	14058193	estimated_end	13970193
	located_end	14058193		
CH321-42G13 3L	17701378	17789378	located_end	17701378
	estimated_end	17789378		
CH321-42G15 2R	20262591	20350591	located_end	20262591
	estimated_end	20350591		
CH321-42G16 3L	5186700	5274700	estimated_end	5186700
	located_end	5274700		
CH321-42G19 4	687944	775944	estimated_end	687944
	located_end	775944		
CH321-42G20 2R	14413126	14501126	estimated_end	14413126
	located_end	14501126		
CH321-42G21 3L	19437701	19525701	located_end	19437701
	estimated_end	19525701		
CH321-42G22 3R	11533170	11621170	located_end	11533170
	estimated_end	11621170		
CH321-42H01 3L	12482058	12570058	located_end	12482058
	estimated_end	12570058		
CH321-42H02 2L	4043108	4131108	located_end	4043108
	estimated_end	4131108		
CH321-42H04 2R	9169884	9257884	located_end	9169884
	estimated_end	9257884		

CH321-42H05 X	6740545	6828545	located_end	6740545
	estimated_end	6828545		
CH321-42H06 3R	8420566	8508566	estimated_end	8420566
	located_end	8508566		
CH321-42H07 2R	15216161	15304161	located_end	15216161
	estimated_end	15304161		
CH321-42H08 3L	15978029	16066029	located_end	15978029
	estimated_end	16066029		
CH321-42H09 X	8496685	8584685	located_end	8496685
	estimated_end	8584685		
CH321-42H10 3R	13067098	13155098	located_end	13067098
	estimated_end	13155098		
CH321-42H12 2L	7729252	7817252	estimated_end	7729252
	located_end	7817252		
CH321-42H13 2L	14873188	14961188	estimated_end	14873188
	located_end	14961188		
CH321-42H15 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-42H16 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-42H18 X	16209372	16297372	located_end	16209372
	estimated_end	16297372		
CH321-42H20 3L	20003201	20091201	located_end	20003201
	estimated_end	20091201		
CH321-42I01 3R	17186311	17274311	located_end	17186311
	estimated_end	17274311		
CH321-42I02 3R	22292762	22380762	located_end	22292762
	estimated_end	22380762		
CH321-42I04 2R	9045997	9133997	located_end	9045997
	estimated_end	9133997		
CH321-42I05 3L	20167385	20255385	estimated_end	20167385
	located_end	20255385		
CH321-42I06 X	10315553	10403553	estimated_end	10315553
	located_end	10403553		
CH321-42I07 3R	8656406	8744406	estimated_end	8656406
	located_end	8744406		
CH321-42I08 2R	12649339	12737339	located_end	12649339
	estimated_end	12737339		
CH321-42I09 X	3524072	3612072	estimated_end	3524072
	located_end	3612072		
CH321-42I10 2R	8150288	8238288	located_end	8150288
	estimated_end	8238288		
CH321-42I11 X	3742319	3830319	located_end	3742319
	estimated_end	3830319		
CH321-42I12 2L	238191	326191	located_end	238191
	estimated_end	326191		
CH321-42I14 2L	14835465	14923465	estimated_end	14835465
	located_end	14923465		
CH321-42I15 2RHet	3172592	3260592	located_end	3172592
	estimated_end	3260592		
CH321-42I16 3L	6971769	7059769	estimated_end	6971769
	located_end	7059769		
CH321-42I18 3L	21803527	21891527	estimated_end	21803527
	located_end	21891527		

CH321-42I19 X	18415935	18503935	estimated_end	18415935
	located_end	18503935		
CH321-42I20 3R	15054199	15142199	located_end	15054199
	estimated_end	15142199		
CH321-42I21 3R	22602700	22690700	estimated_end	22602700
	located_end	22690700		
CH321-42I22 3R	8920913	9008913	located_end	8920913
	estimated_end	9008913		
CH321-42I24 3L	22092833	22180833	estimated_end	22092833
	located_end	22180833		
CH321-42J01 3R	24256885	24344885	located_end	24256885
	estimated_end	24344885		
CH321-42J02 2R	3012916	3100916	located_end	3012916
	estimated_end	3100916		
CH321-42J03 3R	17391623	17479623	estimated_end	17391623
	located_end	17479623		
CH321-42J04 2L	9786101	9874101	estimated_end	9786101
	located_end	9874101		
CH321-42J09 3R	6958599	7046599	estimated_end	6958599
	located_end	7046599		
CH321-42J10 3R	1740173	1828173	estimated_end	1740173
	located_end	1828173		
CH321-42J11 X	3154465	3242465	located_end	3154465
	estimated_end	3242465		
CH321-42J12 2L	3352883	3440883	located_end	3352883
	estimated_end	3440883		
CH321-42J14 2R	10261541	10349541	estimated_end	10261541
	located_end	10349541		
CH321-42J15 3R	18769444	18857444	located_end	18769444
	estimated_end	18857444		
CH321-42J17 X	6959889	7047889	estimated_end	6959889
	located_end	7047889		
CH321-42J19 2L	11878306	11966306	estimated_end	11878306
	located_end	11966306		
CH321-42J20 2L	1789111	1877111	located_end	1789111
	estimated_end	1877111		
CH321-42J22 3R	17878557	17966557	estimated_end	17878557
	located_end	17966557		
CH321-42J24 2R	1512068	1600068	estimated_end	1512068
	located_end	1600068		
CH321-42K01 2R	8061836	8149836	estimated_end	8061836
	located_end	8149836		
CH321-42K02 2R	961751	1049751	located_end	961751
	estimated_end	1049751		
CH321-42K03 2L	15057841	15145841	located_end	15057841
	estimated_end	15145841		
CH321-42K04 3L	13884216	13972216	located_end	13884216
	estimated_end	13972216		
CH321-42K06 X	8210928	8298928	estimated_end	8210928
	located_end	8298928		
CH321-42K09 2R	9642520	9730520	estimated_end	9642520
	located_end	9730520		
CH321-42K12 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		

CH321-42K15 2R	3595405	3683405	estimated_end	3595405
	located_end	3683405		
CH321-42K17 2L	9237250	9325250	located_end	9237250
	estimated_end	9325250		
CH321-42K19 2L	10439234	10527234	located_end	10439234
	estimated_end	10527234		
CH321-42K20 3R	3083404	3171404	estimated_end	3083404
	located_end	3171404		
CH321-42K22 3L	7469107	7557107	estimated_end	7469107
	located_end	7557107		
CH321-42K24 X	16988840	17076840	estimated_end	16988840
	located_end	17076840		
CH321-42L02 3R	1431567	1519567	estimated_end	1431567
	located_end	1519567		
CH321-42L04 3R	20560306	20648306	located_end	20560306
	estimated_end	20648306		
CH321-42L06 3L	10272020	10360020	estimated_end	10272020
	located_end	10360020		
CH321-42L07 2L	18188353	18276353	estimated_end	18188353
	located_end	18276353		
CH321-42L10 3LHet	188824	276824	located_end	188824
	estimated_end	276824		
CH321-42L12 3RHet	1941993	2029993	located_end	1941993
	estimated_end	2029993		
CH321-42L13 3R	15882349	15970349	located_end	15882349
	estimated_end	15970349		
CH321-42L14 3L	9491567	9579567	located_end	9491567
	estimated_end	9579567		
CH321-42L15 2R	17655624	17743624	estimated_end	17655624
	located_end	17743624		
CH321-42L17 2L	19783205	19871205	located_end	19783205
	estimated_end	19871205		
CH321-42L19 2L	2378575	2466575	located_end	2378575
	estimated_end	2466575		
CH321-42L20 2R	4733097	4821097	located_end	4733097
	estimated_end	4821097		
CH321-42L22 3R	15107296	15195296	estimated_end	15107296
	located_end	15195296		
CH321-42L23 3L	3526329	3614329	estimated_end	3526329
	located_end	3614329		
CH321-42L24 2L	13983834	14071834	located_end	13983834
	estimated_end	14071834		
CH321-42M01 X	7183663	7271663	located_end	7183663
	estimated_end	7271663		
CH321-42M04 X	13964175	14052175	located_end	13964175
	estimated_end	14052175		
CH321-42M05 3R	21571307	21659307	located_end	21571307
	estimated_end	21659307		
CH321-42M10 3R	2218451	2306451	estimated_end	2218451
	located_end	2306451		
CH321-42M11 2R	3580066	3668066	estimated_end	3580066
	located_end	3668066		
CH321-42M12 X	12232651	12320651	located_end	12232651
	estimated_end	12320651		

CH321-42M13 2L	9081901	9169901	estimated_end	9081901
	located_end	9169901		
CH321-42M14 2R	12544140	12632140	estimated_end	12544140
	located_end	12632140		
CH321-42M16 X	16044088	16132088	estimated_end	16044088
	located_end	16132088		
CH321-42M17 2R	13792397	13880397	located_end	13792397
	estimated_end	13880397		
CH321-42M18 2L	18868742	18956742	located_end	18868742
	estimated_end	18956742		
CH321-42M19 2R	8669991	8757991	estimated_end	8669991
	located_end	8757991		
CH321-42M21 X	17428762	17516762	estimated_end	17428762
	located_end	17516762		
CH321-42M22 3R	26904077	26992077	estimated_end	26904077
	located_end	26992077		
CH321-42M23 2L	13604366	13692366	located_end	13604366
	estimated_end	13692366		
CH321-42N01 X	19128787	19216787	estimated_end	19128787
	located_end	19216787		
CH321-42N02 3L	12159296	12247296	located_end	12159296
	estimated_end	12247296		
CH321-42N03 2L	1737646	1825646	estimated_end	1737646
	located_end	1825646		
CH321-42N05 X	12072452	12160452	located_end	12072452
	estimated_end	12160452		
CH321-42N06 3L	18273956	18361956	estimated_end	18273956
	located_end	18361956		
CH321-42N07 2L	19220225	19308225	located_end	19220225
	estimated_end	19308225		
CH321-42N08 3L	1323663	1411663	estimated_end	1323663
	located_end	1411663		
CH321-42N09 3R	27402440	27490440	located_end	27402440
	estimated_end	27490440		
CH321-42N10 2L	12516630	12604630	located_end	12516630
	estimated_end	12604630		
CH321-42N11 3L	219161	307161	estimated_end	219161
	located_end	307161		
CH321-42N13 3R	16165481	16253481	located_end	16165481
	estimated_end	16253481		
CH321-42N14 X	4724170	4812170	estimated_end	4724170
	located_end	4812170		
CH321-42N15 3R	15914922	16002922	located_end	15914922
	estimated_end	16002922		
CH321-42N16 3L	8410628	8498628	located_end	8410628
	estimated_end	8498628		
CH321-42N19 X	17377764	17465764	located_end	17377764
	estimated_end	17465764		
CH321-42N20 X	13617005	13705005	located_end	13617005
	estimated_end	13705005		
CH321-42N22 2R	4619418	4707418	located_end	4619418
	estimated_end	4707418		
CH321-42O01 2R	9603628	9691628	estimated_end	9603628
	located_end	9691628		

CH321-42O02 3L	3361242	3449242	located_end	3361242
	estimated_end	3449242		
CH321-42O03 3R	20263390	20351390	located_end	20263390
	estimated_end	20351390		
CH321-42O04 3L	9773780	9861780	located_end	9773780
	estimated_end	9861780		
CH321-42O05 2R	10402099	10490099	estimated_end	10402099
	located_end	10490099		
CH321-42O06 2L	13670973	13758973	located_end	13670973
	estimated_end	13758973		
CH321-42O08 3L	18198879	18286879	estimated_end	18198879
	located_end	18286879		
CH321-42O09 3R	11921041	12009041	estimated_end	11921041
	located_end	12009041		
CH321-42O11 2L	7909321	7997321	estimated_end	7909321
	located_end	7997321		
CH321-42O12 ArmU	9280666	9368666	estimated_end	9280666
	located_end	9368666		
CH321-42O13 2L	12465140	12553140	estimated_end	12465140
	located_end	12553140		
CH321-42O14 3L	21826320	21914320	estimated_end	21826320
	located_end	21914320		
CH321-42O15 3R	22534543	22622543	estimated_end	22534543
	located_end	22622543		
CH321-42O16 2L	13271808	13359808	estimated_end	13271808
	located_end	13359808		
CH321-42O17 2L	13448735	13536735	located_end	13448735
	estimated_end	13536735		
CH321-42O18 2L	748118	836118	estimated_end	748118
	located_end	836118		
CH321-42O20 3R	20550138	20638138	estimated_end	20550138
	located_end	20638138		
CH321-42O21 3L	11192327	11280327	estimated_end	11192327
	located_end	11280327		
CH321-42O22 3R	4991395	5079395	estimated_end	4991395
	located_end	5079395		
CH321-42O23 X	2596557	2684557	estimated_end	2596557
	located_end	2684557		
CH321-42P01 3R	23114366	23202366	estimated_end	23114366
	located_end	23202366		
CH321-42P02 3L	18404562	18492562	located_end	18404562
	estimated_end	18492562		
CH321-42P03 3R	24446149	24534149	estimated_end	24446149
	located_end	24534149		
CH321-42P04 3R	17468545	17556545	estimated_end	17468545
	located_end	17556545		
CH321-42P05 2R	960334	1048334	estimated_end	960334
	located_end	1048334		
CH321-42P08 2L	12301098	12389098	estimated_end	12301098
	located_end	12389098		
CH321-42P09 3R	23515648	23603648	located_end	23515648
	estimated_end	23603648		
CH321-42P10 2R	4856147	4944147	estimated_end	4856147
	located_end	4944147		

CH321-42P11 ArmU	7006996	7094996	located_end	7006996
	estimated_end	7094996		
CH321-42P12 3R	26610454	26698454	located_end	26610454
	estimated_end	26698454		
CH321-42P13 3R	26518452	26606452	located_end	26518452
	estimated_end	26606452		
CH321-42P14 3R	10294705	10382705	estimated_end	10294705
	located_end	10382705		
CH321-42P15 2R	13804768	13892768	estimated_end	13804768
	located_end	13892768		
CH321-42P16 2R	13668724	13756724	located_end	13668724
	estimated_end	13756724		
CH321-42P17 3L	2260582	2348582	estimated_end	2260582
	located_end	2348582		
CH321-42P19 2L	2629856	2717856	located_end	2629856
	estimated_end	2717856		
CH321-42P20 3R	23088526	23176526	located_end	23088526
	estimated_end	23176526		
CH321-42P21 2L	18351847	18439847	located_end	18351847
	estimated_end	18439847		
CH321-42P22 ArmU	3657995	3745995	estimated_end	3657995
	located_end	3745995		
CH321-43A01 3R	14613404	14701404	estimated_end	14613404
	located_end	14701404		
CH321-43A03 3L	9119558	9207558	estimated_end	9119558
	located_end	9207558		
CH321-43A07 2R	5072524	5160524	estimated_end	5072524
	located_end	5160524		
CH321-43A09 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-43A14 2R	6068480	6156480	estimated_end	6068480
	located_end	6156480		
CH321-43A16 3R	26750267	26838267	estimated_end	26750267
	located_end	26838267		
CH321-43A20 3R	11321270	11409270	estimated_end	11321270
	located_end	11409270		
CH321-43A21 3L	9986178	10074178	located_end	9986178
	estimated_end	10074178		
CH321-43A23 2L	12523796	12611796	estimated_end	12523796
	located_end	12611796		
CH321-43A24 3L	22322872	22410872	located_end	22322872
	estimated_end	22410872		
CH321-43B02 2R	15024650	15112650	estimated_end	15024650
	located_end	15112650		
CH321-43B08 3L	22151946	22239946	estimated_end	22151946
	located_end	22239946		
CH321-43B09 2R	11309109	11397109	estimated_end	11309109
	located_end	11397109		
CH321-43B10 2R	15040220	15128220	estimated_end	15040220
	located_end	15128220		
CH321-43B14 2R	11967638	12055638	located_end	11967638
	estimated_end	12055638		
CH321-43B15 2R	725412	813412	located_end	725412
	estimated_end	813412		

CH321-43B19 3R	9184898	9272898	estimated_end	9184898
	located_end	9272898		
CH321-43C03 X	12447956	12535956	located_end	12447956
	estimated_end	12535956		
CH321-43C04 2R	12502846	12590846	estimated_end	12502846
	located_end	12590846		
CH321-43C05 2L	10855810	10943810	located_end	10855810
	estimated_end	10943810		
CH321-43C06 ArmU	3484752	3572752	estimated_end	3484752
	located_end	3572752		
CH321-43C10 X	21338454	21426454	located_end	21338454
	estimated_end	21426454		
CH321-43C13 X	6664445	6752445	located_end	6664445
	estimated_end	6752445		
CH321-43C14 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-43C15 3L	14523366	14611366	located_end	14523366
	estimated_end	14611366		
CH321-43C16 2L	20765727	20853727	located_end	20765727
	estimated_end	20853727		
CH321-43C19 2R	7923871	8011871	estimated_end	7923871
	located_end	8011871		
CH321-43C21 2R	2384872	2472872	estimated_end	2384872
	located_end	2472872		
CH321-43C22 2L	11553617	11641617	estimated_end	11553617
	located_end	11641617		
CH321-43C23 X	5642598	5730598	located_end	5642598
	estimated_end	5730598		
CH321-43D02 2R	15143153	15231153	located_end	15143153
	estimated_end	15231153		
CH321-43D03 2L	21930933	22018933	located_end	21930933
	estimated_end	22018933		
CH321-43D11 3R	682122	770122	located_end	682122
	estimated_end	770122		
CH321-43D15 X	16916675	17004675	located_end	16916675
	estimated_end	17004675		
CH321-43D17 3R	17098695	17186695	estimated_end	17098695
	located_end	17186695		
CH321-43D23 3L	398422	486422	estimated_end	398422
	located_end	486422		
CH321-43E02 X	13401506	13489506	estimated_end	13401506
	located_end	13489506		
CH321-43E03 2L	7082724	7170724	located_end	7082724
	estimated_end	7170724		
CH321-43E19 2R	19282641	19370641	located_end	19282641
	estimated_end	19370641		
CH321-43E21 3L	2384895	2472895	estimated_end	2384895
	located_end	2472895		
CH321-43F01 3L	6511702	6599702	estimated_end	6511702
	located_end	6599702		
CH321-43F03 ArmU	9491709	9579709	located_end	9491709
	estimated_end	9579709		
CH321-43F05 3R	10455337	10543337	located_end	10455337
	estimated_end	10543337		

CH321-43F06 ArmU	5261807	5349807	estimated_end	5261807
	located_end	5349807		
CH321-43F07 3R	530364	618364	located_end	530364
	estimated_end	618364		
CH321-43F08 3R	22052699	22140699	located_end	22052699
	estimated_end	22140699		
CH321-43F10 3R	14110053	14198053	located_end	14110053
	estimated_end	14198053		
CH321-43F11 3R	9013313	9101313	located_end	9013313
	estimated_end	9101313		
CH321-43F12 3R	23951809	24039809	located_end	23951809
	estimated_end	24039809		
CH321-43F15 X	8948603	9036603	estimated_end	8948603
	located_end	9036603		
CH321-43F18 X	18600254	18688254	estimated_end	18600254
	located_end	18688254		
CH321-43F19 3R	19629167	19717167	estimated_end	19629167
	located_end	19717167		
CH321-43F20 2L	17801979	17889979	located_end	17801979
	estimated_end	17889979		
CH321-43F22 X	12563040	12651040	located_end	12563040
	estimated_end	12651040		
CH321-43G01 3R	14794397	14882397	estimated_end	14794397
	located_end	14882397		
CH321-43G04 3R	13512510	13600510	located_end	13512510
	estimated_end	13600510		
CH321-43G05 2L	7132604	7220604	estimated_end	7132604
	located_end	7220604		
CH321-43G09 3L	21345071	21433071	estimated_end	21345071
	located_end	21433071		
CH321-43G14 2R	16805231	16893231	located_end	16805231
	estimated_end	16893231		
CH321-43G16 X	16636658	16724658	located_end	16636658
	estimated_end	16724658		
CH321-43G17 3R	13129409	13217409	located_end	13129409
	estimated_end	13217409		
CH321-43G18 3R	2296720	2384720	estimated_end	2296720
	located_end	2384720		
CH321-43G19 2R	8127198	8215198	located_end	8127198
	estimated_end	8215198		
CH321-43G24 3R	18302989	18390989	estimated_end	18302989
	located_end	18390989		
CH321-43H06 X	9584265	9672265	located_end	9584265
	estimated_end	9672265		
CH321-43H13 3L	7976993	8064993	located_end	7976993
	estimated_end	8064993		
CH321-43H14 3L	9913193	10001193	estimated_end	9913193
	located_end	10001193		
CH321-43H15 3L	14532756	14620756	estimated_end	14532756
	located_end	14620756		
CH321-43H21 2R	6500301	6588301	located_end	6500301
	estimated_end	6588301		
CH321-43H22 3L	4713268	4801268	estimated_end	4713268
	located_end	4801268		

CH321-43I05 3R	24147875	24235875	located_end	24147875
	estimated_end	24235875		
CH321-43I07 2R	3727649	3815649	estimated_end	3727649
	located_end	3815649		
CH321-43I09 2RHet	1968202	2056202	located_end	1968202
	estimated_end	2056202		
CH321-43I10 2R	6076254	6164254	estimated_end	6076254
	located_end	6164254		
CH321-43I12 3R	11267528	11355528	estimated_end	11267528
	located_end	11355528		
CH321-43I13 2L	22531940	22619940	estimated_end	22531940
	located_end	22619940		
CH321-43I18 3L	24301469	24389469	located_end	24301469
	estimated_end	24389469		
CH321-43I19 2L	13853679	13941679	estimated_end	13853679
	located_end	13941679		
CH321-43I20 2R	14744905	14832905	located_end	14744905
	estimated_end	14832905		
CH321-43I21 X	1108451	1196451	estimated_end	1108451
	located_end	1196451		
CH321-43I22 2R	11971718	12059718	estimated_end	11971718
	located_end	12059718		
CH321-43I24 3L	17549508	17637508	located_end	17549508
	estimated_end	17637508		
CH321-43J02 3L	21201531	21289531	located_end	21201531
	estimated_end	21289531		
CH321-43J03 3R	19585142	19673142	estimated_end	19585142
	located_end	19673142		
CH321-43J06 3R	23507485	23595485	estimated_end	23507485
	located_end	23595485		
CH321-43J13 2L	15474942	15562942	located_end	15474942
	estimated_end	15562942		
CH321-43J14 X	17993278	18081278	located_end	17993278
	estimated_end	18081278		
CH321-43J15 3R	4074380	4162380	estimated_end	4074380
	located_end	4162380		
CH321-43J16 2L	10733341	10821341	estimated_end	10733341
	located_end	10821341		
CH321-43J18 2R	11579438	11667438	estimated_end	11579438
	located_end	11667438		
CH321-43J20 3R	21862589	21950589	located_end	21862589
	estimated_end	21950589		
CH321-43J21 3L	3422393	3510393	located_end	3422393
	estimated_end	3510393		
CH321-43J23 3L	8880394	8968394	located_end	8880394
	estimated_end	8968394		
CH321-43J24 3RHet	1270860	1358860	located_end	1270860
	estimated_end	1358860		
CH321-43K03 2L	1478046	1566046	located_end	1478046
	estimated_end	1566046		
CH321-43K05 2R	16902985	16990985	located_end	16902985
	estimated_end	16990985		
CH321-43K09 2L	5912296	6000296	located_end	5912296
	estimated_end	6000296		

CH321-43K11 2R	14431932	14519932	located_end	14431932
	estimated_end	14519932		
CH321-43K12 3R	15248572	15336572	estimated_end	15248572
	located_end	15336572		
CH321-43K15 3L	14270364	14358364	estimated_end	14270364
	located_end	14358364		
CH321-43K16 2L	8476429	8564429	estimated_end	8476429
	located_end	8564429		
CH321-43K17 2L	17452544	17540544	estimated_end	17452544
	located_end	17540544		
CH321-43K19 X	15718318	15806318	located_end	15718318
	estimated_end	15806318		
CH321-43K20 3R	11416990	11504990	located_end	11416990
	estimated_end	11504990		
CH321-43K21 X	9293930	9381930	located_end	9293930
	estimated_end	9381930		
CH321-43K22 3L	8578398	8666398	estimated_end	8578398
	located_end	8666398		
CH321-43K24 3R	7164784	7252784	estimated_end	7164784
	located_end	7252784		
CH321-43L04 3L	1365895	1453895	located_end	1365895
	estimated_end	1453895		
CH321-43L06 3R	6935375	7023375	located_end	6935375
	estimated_end	7023375		
CH321-43L09 3R	10303551	10391551	located_end	10303551
	estimated_end	10391551		
CH321-43L15 3R	6241266	6329266	located_end	6241266
	estimated_end	6329266		
CH321-43L16 2L	7706084	7794084	estimated_end	7706084
	located_end	7794084		
CH321-43L18 3R	3247783	3335783	located_end	3247783
	estimated_end	3335783		
CH321-43L21 3L	454272	542272	estimated_end	454272
	located_end	542272		
CH321-43L23 3R	3409208	3497208	estimated_end	3409208
	located_end	3497208		
CH321-43L24 2R	5746807	5834807	located_end	5746807
	estimated_end	5834807		
CH321-43M07 3RHet	652464	740464	located_end	652464
	estimated_end	740464		
CH321-43M08 3R	6623627	6711627	located_end	6623627
	estimated_end	6711627		
CH321-43M09 2L	15552847	15640847	estimated_end	15552847
	located_end	15640847		
CH321-43M10 2L	17022476	17110476	estimated_end	17022476
	located_end	17110476		
CH321-43M12 2L	9010051	9098051	estimated_end	9010051
	located_end	9098051		
CH321-43M13 2L	2287542	2375542	located_end	2287542
	estimated_end	2375542		
CH321-43M14 2L	21814913	21902913	located_end	21814913
	estimated_end	21902913		
CH321-43M17 3L	19422956	19510956	estimated_end	19422956
	located_end	19510956		

CH321-43M18 3L	6263824	6351824	estimated_end	6263824
	located_end	6351824		
CH321-43M19 2R	17194787	17282787	located_end	17194787
	estimated_end	17282787		
CH321-43M20 3R	26545498	26633498	estimated_end	26545498
	located_end	26633498		
CH321-43M21 X	13351801	13439801	located_end	13351801
	estimated_end	13439801		
CH321-43M22 X	21189939	21277939	located_end	21189939
	estimated_end	21277939		
CH321-43M24 2L	16519281	16607281	estimated_end	16519281
	located_end	16607281		
CH321-43N06 2R	14357630	14445630	located_end	14357630
	estimated_end	14445630		
CH321-43N07 3L	20101724	20189724	located_end	20101724
	estimated_end	20189724		
CH321-43N11 3R	645072	733072	estimated_end	645072
	located_end	733072		
CH321-43N12 2L	14075149	14163149	estimated_end	14075149
	located_end	14163149		
CH321-43N13 3L	17474736	17562736	located_end	17474736
	estimated_end	17562736		
CH321-43N14 X	5857860	5945860	estimated_end	5857860
	located_end	5945860		
CH321-43N19 2R	1811084	1899084	estimated_end	1811084
	located_end	1899084		
CH321-43N20 3L	1133026	1221026	located_end	1133026
	estimated_end	1221026		
CH321-43N21 2L	4888542	4976542	estimated_end	4888542
	located_end	4976542		
CH321-43O03 2R	15173587	15261587	located_end	15173587
	estimated_end	15261587		
CH321-43O05 2R	1843603	1931603	located_end	1843603
	estimated_end	1931603		
CH321-43O06 3R	17317395	17405395	located_end	17317395
	estimated_end	17405395		
CH321-43O07 3L	13879684	13967684	located_end	13879684
	estimated_end	13967684		
CH321-43O10 3R	18719235	18807235	estimated_end	18719235
	located_end	18807235		
CH321-43O11 3L	1962378	2050378	located_end	1962378
	estimated_end	2050378		
CH321-43O14 2L	22140485	22228485	located_end	22140485
	estimated_end	22228485		
CH321-43O17 X	11508873	11596873	located_end	11508873
	estimated_end	11596873		
CH321-43O19 2L	2755536	2843536	estimated_end	2755536
	located_end	2843536		
CH321-43O23 2R	7468813	7556813	located_end	7468813
	estimated_end	7556813		
CH321-43O24 3R	12071866	12159866	estimated_end	12071866
	located_end	12159866		
CH321-43P15 3L	7530084	7618084	estimated_end	7530084
	located_end	7618084		

CH321-43P20 3R	1323933	1411933	estimated_end	1323933
	located_end	1411933		
CH321-43P23 X	20725228	20813228	located_end	20725228
	estimated_end	20813228		
CH321-44A02 2R	18397452	18485452	estimated_end	18397452
	located_end	18485452		
CH321-44A03 3L	19196133	19284133	estimated_end	19196133
	located_end	19284133		
CH321-44A16 2L	6311015	6399015	located_end	6311015
	estimated_end	6399015		
CH321-44A19 2R	10685638	10773638	located_end	10685638
	estimated_end	10773638		
CH321-44A24 ArmU	6401221	6489221	located_end	6401221
	estimated_end	6489221		
CH321-44B06 2R	3112866	3200866	estimated_end	3112866
	located_end	3200866		
CH321-44B12 2R	15171640	15259640	located_end	15171640
	estimated_end	15259640		
CH321-44B13 3L	14233606	14321606	estimated_end	14233606
	located_end	14321606		
CH321-44B14 2R	12767059	12855059	estimated_end	12767059
	located_end	12855059		
CH321-44B15 2R	7787729	7875729	located_end	7787729
	estimated_end	7875729		
CH321-44B17 2L	17416838	17504838	estimated_end	17416838
	located_end	17504838		
CH321-44C04 2RHet	669236	757236	estimated_end	669236
	located_end	757236		
CH321-44C05 2R	11284651	11372651	located_end	11284651
	estimated_end	11372651		
CH321-44C09 2R	4662956	4750956	located_end	4662956
	estimated_end	4750956		
CH321-44C10 3RHet	1166301	1254301	located_end	1166301
	estimated_end	1254301		
CH321-44C14 3R	25403071	25491071	located_end	25403071
	estimated_end	25491071		
CH321-44D03 X	13317858	13405858	located_end	13317858
	estimated_end	13405858		
CH321-44D06 3R	8315078	8403078	estimated_end	8315078
	located_end	8403078		
CH321-44D08 3R	23519476	23607476	estimated_end	23519476
	located_end	23607476		
CH321-44D09 3L	10536808	10624808	estimated_end	10536808
	located_end	10624808		
CH321-44D10 2R	14805541	14893541	located_end	14805541
	estimated_end	14893541		
CH321-44D12 X	2598484	2686484	estimated_end	2598484
	located_end	2686484		
CH321-44D13 X	17110904	17198904	located_end	17110904
	estimated_end	17198904		
CH321-44D20 3L	23346177	23434177	located_end	23346177
	estimated_end	23434177		
CH321-44E01 3R	19992401	20080401	located_end	19992401
	estimated_end	20080401		

CH321-44E05 3L	5915203	6003203	estimated_end	5915203
	located_end	6003203		
CH321-44E06 2L	9163744	9251744	estimated_end	9163744
	located_end	9251744		
CH321-44E07 X	21804087	21892087	located_end	21804087
	estimated_end	21892087		
CH321-44E09 2L	6573544	6661544	estimated_end	6573544
	located_end	6661544		
CH321-44E12 2L	15470753	15558753	located_end	15470753
	estimated_end	15558753		
CH321-44E14 2R	11652679	11740679	located_end	11652679
	estimated_end	11740679		
CH321-44E20 X	12992472	13080472	located_end	12992472
	estimated_end	13080472		
CH321-44E21 3L	19600511	19688511	located_end	19600511
	estimated_end	19688511		
CH321-44E24 2R	12100293	12188293	located_end	12100293
	estimated_end	12188293		
CH321-44F02 2L	18363443	18451443	estimated_end	18363443
	located_end	18451443		
CH321-44F03 3R	16979866	17067866	estimated_end	16979866
	located_end	17067866		
CH321-44F05 3R	21342331	21430331	estimated_end	21342331
	located_end	21430331		
CH321-44F13 3L	4466633	4554633	located_end	4466633
	estimated_end	4554633		
CH321-44F14 3R	10139479	10227479	estimated_end	10139479
	located_end	10227479		
CH321-44F15 3R	23189622	23277622	estimated_end	23189622
	located_end	23277622		
CH321-44F19 3R	22289727	22377727	estimated_end	22289727
	located_end	22377727		
CH321-44F20 2R	15403621	15491621	estimated_end	15403621
	located_end	15491621		
CH321-44F22 3R	11328989	11416989	estimated_end	11328989
	located_end	11416989		
CH321-44F24 3R	10139479	10227479	estimated_end	10139479
	located_end	10227479		
CH321-44G03 3L	22167028	22255028	estimated_end	22167028
	located_end	22255028		
CH321-44G04 2R	13781442	13869442	estimated_end	13781442
	located_end	13869442		
CH321-44G07 2R	17069983	17157983	estimated_end	17069983
	located_end	17157983		
CH321-44G08 3R	444410	532410	estimated_end	444410
	located_end	532410		
CH321-44G09 3R	4225468	4313468	estimated_end	4225468
	located_end	4313468		
CH321-44G13 2R	11312949	11400949	located_end	11312949
	estimated_end	11400949		
CH321-44G14 X	6887244	6975244	estimated_end	6887244
	located_end	6975244		
CH321-44G16 2L	4638866	4726866	estimated_end	4638866
	located_end	4726866		

CH321-44G17 3R	7624875	7712875	located_end	7624875
	estimated_end	7712875		
CH321-44G18 4	682527	770527	estimated_end	682527
	located_end	770527		
CH321-44G22 3R	1047440	1135440	estimated_end	1047440
	located_end	1135440		
CH321-44G23 3R	11532997	11620997	estimated_end	11532997
	located_end	11620997		
CH321-44H01 2R	2511792	2599792	located_end	2511792
	estimated_end	2599792		
CH321-44H03 3L	5149354	5237354	located_end	5149354
	estimated_end	5237354		
CH321-44H04 2R	13911178	13999178	estimated_end	13911178
	located_end	13999178		
CH321-44H12 3L	20853600	20941600	estimated_end	20853600
	located_end	20941600		
CH321-44H13 X	11883835	11971835	located_end	11883835
	estimated_end	11971835		
CH321-44H18 3L	11227552	11315552	located_end	11227552
	estimated_end	11315552		
CH321-44H22 3R	24021972	24109972	estimated_end	24021972
	located_end	24109972		
CH321-44I03 2L	16787078	16875078	located_end	16787078
	estimated_end	16875078		
CH321-44I05 2R	18502046	18590046	located_end	18502046
	estimated_end	18590046		
CH321-44I08 2L	14763699	14851699	located_end	14763699
	estimated_end	14851699		
CH321-44I11 3L	3353822	3441822	estimated_end	3353822
	located_end	3441822		
CH321-44I12 3R	179264	267264	estimated_end	179264
	located_end	267264		
CH321-44I17 X	2466004	2554004	estimated_end	2466004
	located_end	2554004		
CH321-44I21 2L	17291566	17379566	located_end	17291566
	estimated_end	17379566		
CH321-44I22 2L	4297700	4385700	located_end	4297700
	estimated_end	4385700		
CH321-44J01 X	19215756	19303756	located_end	19215756
	estimated_end	19303756		
CH321-44J06 2L	19080422	19168422	located_end	19080422
	estimated_end	19168422		
CH321-44J14 2L	13979347	14067347	located_end	13979347
	estimated_end	14067347		
CH321-44J17 ArmU	3897055	3985055	located_end	3897055
	estimated_end	3985055		
CH321-44J20 3L	20026840	20114840	located_end	20026840
	estimated_end	20114840		
CH321-44J24 3L	14133387	14221387	estimated_end	14133387
	located_end	14221387		
CH321-44K01 2L	4204882	4292882	located_end	4204882
	estimated_end	4292882		
CH321-44K03 X	11178228	11266228	estimated_end	11178228
	located_end	11266228		

CH321-44K04 2L	16133149	16221149	estimated_end	16133149
	located_end	16221149		
CH321-44K06 3L	9335378	9423378	located_end	9335378
	estimated_end	9423378		
CH321-44K12 2L	8385185	8473185	estimated_end	8385185
	located_end	8473185		
CH321-44K14 3R	13789260	13877260	estimated_end	13789260
	located_end	13877260		
CH321-44K21 3R	13022837	13110837	estimated_end	13022837
	located_end	13110837		
CH321-44L02 3L	20012396	20100396	estimated_end	20012396
	located_end	20100396		
CH321-44L03 2L	13708952	13796952	estimated_end	13708952
	located_end	13796952		
CH321-44L05 3L	19470079	19558079	located_end	19470079
	estimated_end	19558079		
CH321-44L07 3R	287385	375385	estimated_end	287385
	located_end	375385		
CH321-44L09 2R	3051365	3139365	located_end	3051365
	estimated_end	3139365		
CH321-44L14 2R	15710857	15798857	located_end	15710857
	estimated_end	15798857		
CH321-44L15 X	12384021	12472021	estimated_end	12384021
	located_end	12472021		
CH321-44L18 2L	18612171	18700171	located_end	18612171
	estimated_end	18700171		
CH321-44L20 X	5220640	5308640	located_end	5220640
	estimated_end	5308640		
CH321-44L21 2R	3367539	3455539	located_end	3367539
	estimated_end	3455539		
CH321-44L23 2R	17873396	17961396	estimated_end	17873396
	located_end	17961396		
CH321-44M02 2L	1801408	1889408	estimated_end	1801408
	located_end	1889408		
CH321-44M04 3R	26023164	26111164	estimated_end	26023164
	located_end	26111164		
CH321-44M05 3R	853205	941205	located_end	853205
	estimated_end	941205		
CH321-44M07 2R	16552216	16640216	estimated_end	16552216
	located_end	16640216		
CH321-44M16 2R	8992910	9080910	estimated_end	8992910
	located_end	9080910		
CH321-44M20 3L	10952455	11040455	estimated_end	10952455
	located_end	11040455		
CH321-44M23 2R	9674146	9762146	estimated_end	9674146
	located_end	9762146		
CH321-44M24 2L	4645895	4733895	located_end	4645895
	estimated_end	4733895		
CH321-44N03 3L	2163513	2251513	located_end	2163513
	estimated_end	2251513		
CH321-44N04 2L	22452652	22540652	located_end	22452652
	estimated_end	22540652		
CH321-44N06 2R	4861390	4949390	estimated_end	4861390
	located_end	4949390		

CH321-44N07 3R	25182921	25270921	estimated_end	25182921
	located_end	25270921		
CH321-44N09 2R	9464514	9552514	estimated_end	9464514
	located_end	9552514		
CH321-44N10 3L	17564366	17652366	estimated_end	17564366
	located_end	17652366		
CH321-44N16 2RHet	1203594	1291594	estimated_end	1203594
	located_end	1291594		
CH321-44N20 ArmU	131015	219015	estimated_end	131015
	located_end	219015		
CH321-44N23 2R	7554540	7642540	estimated_end	7554540
	located_end	7642540		
CH321-44O03 X	3930425	4018425	located_end	3930425
	estimated_end	4018425		
CH321-44O04 3R	3876547	3964547	estimated_end	3876547
	located_end	3964547		
CH321-44O06 X	3860024	3948024	estimated_end	3860024
	located_end	3948024		
CH321-44O08 3R	13161276	13249276	located_end	13161276
	estimated_end	13249276		
CH321-44O09 2R	11603886	11691886	located_end	11603886
	estimated_end	11691886		
CH321-44O11 3L	5858710	5946710	located_end	5858710
	estimated_end	5946710		
CH321-44O13 3R	2533509	2621509	located_end	2533509
	estimated_end	2621509		
CH321-44O14 3R	14764144	14852144	estimated_end	14764144
	located_end	14852144		
CH321-44O15 2L	17991264	18079264	located_end	17991264
	estimated_end	18079264		
CH321-44O16 2R	8334244	8422244	estimated_end	8334244
	located_end	8422244		
CH321-44O18 3L	7325521	7413521	located_end	7325521
	estimated_end	7413521		
CH321-44O19 2L	3959823	4047823	located_end	3959823
	estimated_end	4047823		
CH321-44O21 2R	7385090	7473090	estimated_end	7385090
	located_end	7473090		
CH321-44O22 2L	10648117	10736117	located_end	10648117
	estimated_end	10736117		
CH321-44O24 3R	26628199	26716199	located_end	26628199
	estimated_end	26716199		
CH321-44P01 2R	13449130	13537130	estimated_end	13449130
	located_end	13537130		
CH321-44P06 ArmU	450460	538460	located_end	450460
	estimated_end	538460		
CH321-44P07 3R	9002244	9090244	estimated_end	9002244
	located_end	9090244		
CH321-44P09 3R	6051623	6139623	located_end	6051623
	estimated_end	6139623		
CH321-44P10 3L	24174656	24262656	estimated_end	24174656
	located_end	24262656		
CH321-44P12 2R	2147334	2235334	located_end	2147334
	estimated_end	2235334		

CH321-44P13 3R	13657339	13745339	estimated_end	13657339
	located_end	13745339		
CH321-44P15 3R	17580695	17668695	estimated_end	17580695
	located_end	17668695		
CH321-44P18 2R	14864617	14952617	estimated_end	14864617
	located_end	14952617		
CH321-44P20 3L	24100641	24188641	estimated_end	24100641
	located_end	24188641		
CH321-44P21 3LHet	232602	320602	located_end	232602
	estimated_end	320602		
CH321-44P22 3LHet	932479	1020479	located_end	932479
	estimated_end	1020479		
CH321-44P23 3R	6740610	6828610	located_end	6740610
	estimated_end	6828610		
CH321-44P24 3L	8232780	8320780	estimated_end	8232780
	located_end	8320780		
CH321-45A16 2L	14226500	14314500	located_end	14226500
	estimated_end	14314500		
CH321-45A23 2RHet	1333344	1421344	located_end	1333344
	estimated_end	1421344		
CH321-45A24 2L	9056688	9144688	estimated_end	9056688
	located_end	9144688		
CH321-45B21 3R	25110002	25198002	located_end	25110002
	estimated_end	25198002		
CH321-45B23 3R	23431463	23519463	located_end	23431463
	estimated_end	23519463		
CH321-45C14 2R	16673964	16761964	estimated_end	16673964
	located_end	16761964		
CH321-45C16 3R	3404448	3492448	estimated_end	3404448
	located_end	3492448		
CH321-45C24 X	12038627	12126627	located_end	12038627
	estimated_end	12126627		
CH321-45D01 3R	1982054	2070054	located_end	1982054
	estimated_end	2070054		
CH321-45D09 3R	24430246	24518246	estimated_end	24430246
	located_end	24518246		
CH321-45D10 2L	14100260	14188260	located_end	14100260
	estimated_end	14188260		
CH321-45D15 2R	7024920	7112920	estimated_end	7024920
	located_end	7112920		
CH321-45E01 2L	2489890	2577890	estimated_end	2489890
	located_end	2577890		
CH321-45E02 3L	11059289	11147289	estimated_end	11059289
	located_end	11147289		
CH321-45E08 3R	13385772	13473772	estimated_end	13385772
	located_end	13473772		
CH321-45E11 3R	15253131	15341131	estimated_end	15253131
	located_end	15341131		
CH321-45E13 2R	17635478	17723478	estimated_end	17635478
	located_end	17723478		
CH321-45E14 2R	21037609	21125609	estimated_end	21037609
	located_end	21125609		
CH321-45E18 X	12280991	12368991	estimated_end	12280991
	located_end	12368991		

CH321-45E23 2R	18587054	18675054	located_end	18587054
	estimated_end	18675054		
CH321-45F02 X	10500835	10588835	estimated_end	10500835
	located_end	10588835		
CH321-45F20 2RHet	1291591	1379591	located_end	1291591
	estimated_end	1379591		
CH321-45G07 X	5698429	5786429	estimated_end	5698429
	located_end	5786429		
CH321-45G10 2L	13499596	13587596	located_end	13499596
	estimated_end	13587596		
CH321-45G19 2R	3381693	3469693	estimated_end	3381693
	located_end	3469693		
CH321-45G20 3L	5616862	5704862	located_end	5616862
	estimated_end	5704862		
CH321-45G22 3L	15236653	15324653	estimated_end	15236653
	located_end	15324653		
CH321-45H01 3R	22360371	22448371	estimated_end	22360371
	located_end	22448371		
CH321-45H03 3L	6756270	6844270	estimated_end	6756270
	located_end	6844270		
CH321-45H04 ArmU	295666	383666	estimated_end	295666
	located_end	383666		
CH321-45H10 3L	7888625	7976625	located_end	7888625
	estimated_end	7976625		
CH321-45H16 3L	20687622	20775622	located_end	20687622
	estimated_end	20775622		
CH321-45H22 2L	7803333	7891333	located_end	7803333
	estimated_end	7891333		
CH321-45H24 3L	19686241	19774241	located_end	19686241
	estimated_end	19774241		
CH321-45I06 2L	15472899	15560899	estimated_end	15472899
	located_end	15560899		
CH321-45I08 2R	7798292	7886292	estimated_end	7798292
	located_end	7886292		
CH321-45I11 2L	3722590	3810590	located_end	3722590
	estimated_end	3810590		
CH321-45I15 3R	20194710	20282710	located_end	20194710
	estimated_end	20282710		
CH321-45I16 X	11577303	11665303	located_end	11577303
	estimated_end	11665303		
CH321-45I18 3R	7830946	7918946	estimated_end	7830946
	located_end	7918946		
CH321-45I22 3R	18309181	18397181	located_end	18309181
	estimated_end	18397181		
CH321-45I23 2L	15254074	15342074	estimated_end	15254074
	located_end	15342074		
CH321-45J07 3L	1416693	1504693	estimated_end	1416693
	located_end	1504693		
CH321-45J08 2R	7199209	7287209	located_end	7199209
	estimated_end	7287209		
CH321-45J16 2L	14236524	14324524	estimated_end	14236524
	located_end	14324524		
CH321-45J19 2L	18676785	18764785	located_end	18676785
	estimated_end	18764785		

CH321-45J23 2R	8720994	8808994	estimated_end	8720994
	located_end	8808994		
CH321-45J24 2R	13899775	13987775	estimated_end	13899775
	located_end	13987775		
CH321-45K06 3R	14495496	14583496	estimated_end	14495496
	located_end	14583496		
CH321-45K08 2R	14189689	14277689	located_end	14189689
	estimated_end	14277689		
CH321-45K10 3L	19060565	19148565	located_end	19060565
	estimated_end	19148565		
CH321-45K11 2L	19492405	19580405	located_end	19492405
	estimated_end	19580405		
CH321-45K14 2L	20462779	20550779	estimated_end	20462779
	located_end	20550779		
CH321-45K15 3L	13269500	13357500	located_end	13269500
	estimated_end	13357500		
CH321-45K16 3R	336532	424532	located_end	336532
	estimated_end	424532		
CH321-45L11 2R	4692332	4780332	located_end	4692332
	estimated_end	4780332		
CH321-45L12 2R	4843333	4931333	estimated_end	4843333
	located_end	4931333		
CH321-45L13 2L	15057753	15145753	located_end	15057753
	estimated_end	15145753		
CH321-45L16 X	22224853	22312853	located_end	22224853
	estimated_end	22312853		
CH321-45M06 X	6905652	6993652	located_end	6905652
	estimated_end	6993652		
CH321-45M11 ArmU	6477853	6565853	located_end	6477853
	estimated_end	6565853		
CH321-45M12 X	3413946	3501946	located_end	3413946
	estimated_end	3501946		
CH321-45M20 2L	3614033	3702033	located_end	3614033
	estimated_end	3702033		
CH321-45N01 2L	10016215	10104215	estimated_end	10016215
	located_end	10104215		
CH321-45N03 3R	13273849	13361849	estimated_end	13273849
	located_end	13361849		
CH321-45N04 3L	17239273	17327273	located_end	17239273
	estimated_end	17327273		
CH321-45N07 3L	13657794	13745794	estimated_end	13657794
	located_end	13745794		
CH321-45N11 2L	9619567	9707567	estimated_end	9619567
	located_end	9707567		
CH321-45N15 2L	9494673	9582673	estimated_end	9494673
	located_end	9582673		
CH321-45N20 3L	18840524	18928524	estimated_end	18840524
	located_end	18928524		
CH321-45N21 3L	13754365	13842365	estimated_end	13754365
	located_end	13842365		
CH321-45N23 X	21953094	22041094	estimated_end	21953094
	located_end	22041094		
CH321-45N24 3R	6662715	6750715	located_end	6662715
	estimated_end	6750715		

CH321-45016 X	18413937	18501937	estimated_end	18413937
	located_end	18501937		
CH321-45020 3R	918260	1006260	estimated_end	918260
	located_end	1006260		
CH321-45021 3LHet	-77022	10978	estimated_end	-77022
	located_end	10978		
CH321-45023 3R	23204469	23292469	estimated_end	23204469
	located_end	23292469		
CH321-45024 3L	14666074	14754074	estimated_end	14666074
	located_end	14754074		
CH321-45P05 3LHet	467275	555275	estimated_end	467275
	located_end	555275		
CH321-45P07 X	17315001	17403001	located_end	17315001
	estimated_end	17403001		
CH321-45P09 ArmU	9708440	9796440	estimated_end	9708440
	located_end	9796440		
CH321-45P15 2L	8117091	8205091	located_end	8117091
	estimated_end	8205091		
CH321-45P20 3L	14132858	14220858	located_end	14132858
	estimated_end	14220858		
CH321-45P22 ArmU	2124743	2212743	estimated_end	2124743
	located_end	2212743		
CH321-45P24 3L	21590749	21678749	estimated_end	21590749
	located_end	21678749		
CH321-46A08 3L	18752872	18840872	estimated_end	18752872
	located_end	18840872		
CH321-46A10 3R	25904875	25992875	estimated_end	25904875
	located_end	25992875		
CH321-46A17 3L	10865198	10953198	estimated_end	10865198
	located_end	10953198		
CH321-46A21 2R	16277460	16365460	estimated_end	16277460
	located_end	16365460		
CH321-46A23 3L	1810755	1898755	estimated_end	1810755
	located_end	1898755		
CH321-46A24 2L	10885985	10973985	estimated_end	10885985
	located_end	10973985		
CH321-46B08 3L	7901591	7989591	estimated_end	7901591
	located_end	7989591		
CH321-46B14 3L	17172413	17260413	located_end	17172413
	estimated_end	17260413		
CH321-46B16 2R	19841209	19929209	estimated_end	19841209
	located_end	19929209		
CH321-46B17 2R	12800474	12888474	estimated_end	12800474
	located_end	12888474		
CH321-46B18 2L	1334436	1422436	located_end	1334436
	estimated_end	1422436		
CH321-46B21 3R	24570116	24658116	located_end	24570116
	estimated_end	24658116		
CH321-46C04 3R	2383307	2471307	estimated_end	2383307
	located_end	2471307		
CH321-46C06 3L	-42914	45086	estimated_end	-42914
	located_end	45086		
CH321-46C08 3L	20271615	20359615	located_end	20271615
	estimated_end	20359615		

CH321-46C16 2L	11686114	11774114	estimated_end	11686114
	located_end	11774114		
CH321-46C17 3L	21346759	21434759	located_end	21346759
	estimated_end	21434759		
CH321-46C18 ArmU	4703577	4791577	located_end	4703577
	estimated_end	4791577		
CH321-46C19 2R	17314463	17402463	located_end	17314463
	estimated_end	17402463		
CH321-46D02 3L	22066674	22154674	estimated_end	22066674
	located_end	22154674		
CH321-46D04 3L	11525598	11613598	located_end	11525598
	estimated_end	11613598		
CH321-46D07 X	21251858	21339858	estimated_end	21251858
	located_end	21339858		
CH321-46D13 3R	13491949	13579949	estimated_end	13491949
	located_end	13579949		
CH321-46D14 ArmU	2746884	2834884	estimated_end	2746884
	located_end	2834884		
CH321-46D15 3R	3804398	3892398	estimated_end	3804398
	located_end	3892398		
CH321-46D16 3L	14533619	14621619	located_end	14533619
	estimated_end	14621619		
CH321-46D17 3L	22365625	22453625	estimated_end	22365625
	located_end	22453625		
CH321-46D18 4	196723	284723	located_end	196723
	estimated_end	284723		
CH321-46D21 3R	24743506	24831506	located_end	24743506
	estimated_end	24831506		
CH321-46D22 2L	4211163	4299163	located_end	4211163
	estimated_end	4299163		
CH321-46E03 2R	8358737	8446737	located_end	8358737
	estimated_end	8446737		
CH321-46E05 3R	3242568	3330568	located_end	3242568
	estimated_end	3330568		
CH321-46E06 3L	12881131	12969131	located_end	12881131
	estimated_end	12969131		
CH321-46E15 3LHet	2249155	2337155	located_end	2249155
	estimated_end	2337155		
CH321-46F01 3L	24341112	24429112	located_end	24341112
	estimated_end	24429112		
CH321-46F03 3L	23744854	23832854	located_end	23744854
	estimated_end	23832854		
CH321-46F04 3L	15263431	15351431	estimated_end	15263431
	located_end	15351431		
CH321-46F05 3R	24883247	24971247	estimated_end	24883247
	located_end	24971247		
CH321-46F09 3R	17927895	18015895	located_end	17927895
	estimated_end	18015895		
CH321-46F13 2R	984022	1072022	located_end	984022
	estimated_end	1072022		
CH321-46F14 X	11084693	11172693	estimated_end	11084693
	located_end	11172693		
CH321-46F15 3R	22461559	22549559	located_end	22461559
	estimated_end	22549559		

CH321-46F18 X	2757689	2845689	located_end	2757689
estimated_end	2845689			
CH321-46F19 2L	1668841	1756841	estimated_end	1668841
located_end	1756841			
CH321-46F21 2R	845259	933259	estimated_end	845259
located_end	933259			
CH321-46F22 3LHet	769845	857845	located_end	769845
estimated_end	857845			
CH321-46G01 2R	19646153	19734153	estimated_end	19646153
located_end	19734153			
CH321-46G02 X	15110753	15198753	located_end	15110753
estimated_end	15198753			
CH321-46G09 3R	10786115	10874115	estimated_end	10786115
located_end	10874115			
CH321-46G10 2L	11849992	11937992	located_end	11849992
estimated_end	11937992			
CH321-46G12 2R	8558526	8646526	located_end	8558526
estimated_end	8646526			
CH321-46G13 3R	1452006	1540006	estimated_end	1452006
located_end	1540006			
CH321-46G14 3L	18050213	18138213	estimated_end	18050213
located_end	18138213			
CH321-46G16 X	15043330	15131330	located_end	15043330
estimated_end	15131330			
CH321-46G17 2L	12775992	12863992	located_end	12775992
estimated_end	12863992			
CH321-46G18 3R	18024862	18112862	located_end	18024862
estimated_end	18112862			
CH321-46G19 2L	6698206	6786206	estimated_end	6698206
located_end	6786206			
CH321-46G21 X	10019143	10107143	estimated_end	10019143
located_end	10107143			
CH321-46H01 3L	19796619	19884619	estimated_end	19796619
located_end	19884619			
CH321-46H02 2R	8224215	8312215	located_end	8224215
estimated_end	8312215			
CH321-46H03 3L	7657348	7745348	located_end	7657348
estimated_end	7745348			
CH321-46H06 3L	8249333	8337333	estimated_end	8249333
located_end	8337333			
CH321-46H09 3L	23427355	23515355	located_end	23427355
estimated_end	23515355			
CH321-46H10 X	9654876	9742876	estimated_end	9654876
located_end	9742876			
CH321-46H13 3R	13242783	13330783	located_end	13242783
estimated_end	13330783			
CH321-46H14 3R	16931505	17019505	located_end	16931505
estimated_end	17019505			
CH321-46H17 3L	11996583	12084583	estimated_end	11996583
located_end	12084583			
CH321-46H22 3R	21669488	21757488	estimated_end	21669488
located_end	21757488			
CH321-46I01 3L	13982430	14070430	located_end	13982430
estimated_end	14070430			

CH321-46I02 2L	6979992	7067992	estimated_end	6979992
	located_end	7067992		
CH321-46I03 2L	20386546	20474546	located_end	20386546
	estimated_end	20474546		
CH321-46I09 2R	4262163	4350163	located_end	4262163
	estimated_end	4350163		
CH321-46I14 2L	1404568	1492568	estimated_end	1404568
	located_end	1492568		
CH321-46I17 3L	10515188	10603188	located_end	10515188
	estimated_end	10603188		
CH321-46I20 3R	10487528	10575528	located_end	10487528
	estimated_end	10575528		
CH321-46I23 2R	18285442	18373442	located_end	18285442
	estimated_end	18373442		
CH321-46J01 2L	17441363	17529363	located_end	17441363
	estimated_end	17529363		
CH321-46J02 X	4454855	4542855	estimated_end	4454855
	located_end	4542855		
CH321-46J04 2R	20141292	20229292	estimated_end	20141292
	located_end	20229292		
CH321-46J05 2L	5686796	5774796	estimated_end	5686796
	located_end	5774796		
CH321-46J06 3L	2385819	2473819	located_end	2385819
	estimated_end	2473819		
CH321-46J07 3L	10497634	10585634	estimated_end	10497634
	located_end	10585634		
CH321-46J10 3R	12712569	12800569	estimated_end	12712569
	located_end	12800569		
CH321-46J13 3R	2298958	2386958	located_end	2298958
	estimated_end	2386958		
CH321-46J14 3R	4370668	4458668	estimated_end	4370668
	located_end	4458668		
CH321-46J19 2L	15822319	15910319	located_end	15822319
	estimated_end	15910319		
CH321-46J21 2L	2879188	2967188	located_end	2879188
	estimated_end	2967188		
CH321-46J22 X	21961391	22049391	located_end	21961391
	estimated_end	22049391		
CH321-46K01 2R	15036439	15124439	estimated_end	15036439
	located_end	15124439		
CH321-46K02 X	13507086	13595086	located_end	13507086
	estimated_end	13595086		
CH321-46K03 2R	11954916	12042916	located_end	11954916
	estimated_end	12042916		
CH321-46K04 3L	4956115	5044115	located_end	4956115
	estimated_end	5044115		
CH321-46K05 2L	2620787	2708787	located_end	2620787
	estimated_end	2708787		
CH321-46K08 2R	17054536	17142536	located_end	17054536
	estimated_end	17142536		
CH321-46K10 3L	2497664	2585664	located_end	2497664
	estimated_end	2585664		
CH321-46K13 3L	2629114	2717114	located_end	2629114
	estimated_end	2717114		

CH321-46K14 3R	1072765	1160765	estimated_end	1072765
	located_end	1160765		
CH321-46K16 X	3474000	3562000	estimated_end	3474000
	located_end	3562000		
CH321-46K18 3L	1722504	1810504	located_end	1722504
	estimated_end	1810504		
CH321-46K21 2R	15048355	15136355	located_end	15048355
	estimated_end	15136355		
CH321-46K22 3R	15330268	15418268	located_end	15330268
	estimated_end	15418268		
CH321-46K23 2L	4013517	4101517	located_end	4013517
	estimated_end	4101517		
CH321-46L01 3L	21608038	21696038	estimated_end	21608038
	located_end	21696038		
CH321-46L02 2R	3296472	3384472	estimated_end	3296472
	located_end	3384472		
CH321-46L03 2R	17286192	17374192	located_end	17286192
	estimated_end	17374192		
CH321-46L05 3L	5161830	5249830	estimated_end	5161830
	located_end	5249830		
CH321-46L06 2R	9343162	9431162	estimated_end	9343162
	located_end	9431162		
CH321-46L08 3L	14837007	14925007	estimated_end	14837007
	located_end	14925007		
CH321-46L09 3L	20752014	20840014	estimated_end	20752014
	located_end	20840014		
CH321-46L10 2L	13794604	13882604	estimated_end	13794604
	located_end	13882604		
CH321-46L12 3R	17363795	17451795	located_end	17363795
	estimated_end	17451795		
CH321-46L14 2L	3267612	3355612	located_end	3267612
	estimated_end	3355612		
CH321-46L15 3L	19514677	19602677	estimated_end	19514677
	located_end	19602677		
CH321-46L16 3L	10536469	10624469	estimated_end	10536469
	located_end	10624469		
CH321-46L17 3L	8288024	8376024	estimated_end	8288024
	located_end	8376024		
CH321-46L18 3R	7301461	7389461	located_end	7301461
	estimated_end	7389461		
CH321-46L19 3L	13200663	13288663	estimated_end	13200663
	located_end	13288663		
CH321-46L22 3R	22559955	22647955	estimated_end	22559955
	located_end	22647955		
CH321-46M05 2L	8447201	8535201	located_end	8447201
	estimated_end	8535201		
CH321-46M06 3R	10156169	10244169	estimated_end	10156169
	located_end	10244169		
CH321-46M09 X	4617076	4705076	estimated_end	4617076
	located_end	4705076		
CH321-46M10 3L	15769358	15857358	estimated_end	15769358
	located_end	15857358		
CH321-46M11 3R	22284768	22372768	estimated_end	22284768
	located_end	22372768		

CH321-46M13 3L	10361972	10449972	estimated_end	10361972
	located_end	10449972		
CH321-46M14 3R	26302345	26390345	located_end	26302345
	estimated_end	26390345		
CH321-46M15 2R	7618704	7706704	estimated_end	7618704
	located_end	7706704		
CH321-46M17 3L	11395221	11483221	estimated_end	11395221
	located_end	11483221		
CH321-46M19 X	10538394	10626394	located_end	10538394
	estimated_end	10626394		
CH321-46M21 3R	23674432	23762432	located_end	23674432
	estimated_end	23762432		
CH321-46M23 X	14498658	14586658	located_end	14498658
	estimated_end	14586658		
CH321-46M24 2R	11981975	12069975	located_end	11981975
	estimated_end	12069975		
CH321-46N01 3R	5297066	5385066	located_end	5297066
	estimated_end	5385066		
CH321-46N06 2L	3836278	3924278	located_end	3836278
	estimated_end	3924278		
CH321-46N07 2L	16481162	16569162	estimated_end	16481162
	located_end	16569162		
CH321-46N09 2R	9036060	9124060	estimated_end	9036060
	located_end	9124060		
CH321-46N17 3L	6476680	6564680	estimated_end	6476680
	located_end	6564680		
CH321-46N22 3L	20676680	20764680	located_end	20676680
	estimated_end	20764680		
CH321-46N23 X	11379237	11467237	estimated_end	11379237
	located_end	11467237		
CH321-46O03 2R	17880981	17968981	located_end	17880981
	estimated_end	17968981		
CH321-46O11 2R	6879002	6967002	estimated_end	6879002
	located_end	6967002		
CH321-46O13 2L	21987540	22075540	estimated_end	21987540
	located_end	22075540		
CH321-46O14 3R	4189459	4277459	estimated_end	4189459
	located_end	4277459		
CH321-46O17 2R	927675	1015675	estimated_end	927675
	located_end	1015675		
CH321-46O18 3L	10701184	10789184	estimated_end	10701184
	located_end	10789184		
CH321-46P01 2R	2408076	2496076	estimated_end	2408076
	located_end	2496076		
CH321-46P02 3R	10015776	10103776	estimated_end	10015776
	located_end	10103776		
CH321-46P03 3R	17530929	17618929	estimated_end	17530929
	located_end	17618929		
CH321-46P04 3R	27042666	27130666	estimated_end	27042666
	located_end	27130666		
CH321-46P08 3R	13265072	13353072	estimated_end	13265072
	located_end	13353072		
CH321-46P10 3L	22553726	22641726	estimated_end	22553726
	located_end	22641726		

CH321-46P15 3RHet	197522	285522	located_end	197522
	estimated_end	285522		
CH321-47A03 ArmU	2128039	2216039	estimated_end	2128039
	located_end	2216039		
CH321-47A10 3L	10751501	10839501	estimated_end	10751501
	located_end	10839501		
CH321-47A11 3R	15376444	15464444	estimated_end	15376444
	located_end	15464444		
CH321-47A12 ArmU	9708223	9796223	estimated_end	9708223
	located_end	9796223		
CH321-47A16 3R	26854927	26942927	estimated_end	26854927
	located_end	26942927		
CH321-47A17 3R	13344906	13432906	located_end	13344906
	estimated_end	13432906		
CH321-47A18 3R	9734443	9822443	located_end	9734443
	estimated_end	9822443		
CH321-47A19 3L	17848894	17936894	estimated_end	17848894
	located_end	17936894		
CH321-47B01 3R	22041651	22129651	estimated_end	22041651
	located_end	22129651		
CH321-47B10 3R	11216246	11304246	estimated_end	11216246
	located_end	11304246		
CH321-47B18 2L	15033414	15121414	located_end	15033414
	estimated_end	15121414		
CH321-47B22 2L	13541147	13629147	located_end	13541147
	estimated_end	13629147		
CH321-47B24 3L	17552864	17640864	estimated_end	17552864
	located_end	17640864		
CH321-47C08 3R	17654533	17742533	estimated_end	17654533
	located_end	17742533		
CH321-47C13 2L	2816735	2904735	located_end	2816735
	estimated_end	2904735		
CH321-47C14 2R	19862872	19950872	located_end	19862872
	estimated_end	19950872		
CH321-47C21 3R	20520939	20608939	estimated_end	20520939
	located_end	20608939		
CH321-47D02 2L	6965030	7053030	estimated_end	6965030
	located_end	7053030		
CH321-47D04 3R	22340138	22428138	estimated_end	22340138
	located_end	22428138		
CH321-47D12 2R	10417142	10505142	located_end	10417142
	estimated_end	10505142		
CH321-47D13 3L	15949136	16037136	located_end	15949136
	estimated_end	16037136		
CH321-47D15 3R	25142329	25230329	estimated_end	25142329
	located_end	25230329		
CH321-47D16 2R	8930853	9018853	located_end	8930853
	estimated_end	9018853		
CH321-47D22 2L	5034469	5122469	located_end	5034469
	estimated_end	5122469		
CH321-47D23 2L	9067655	9155655	located_end	9067655
	estimated_end	9155655		
CH321-47E01 2R	6001733	6089733	located_end	6001733
	estimated_end	6089733		

CH321-47E05 2R	18474110	18562110	estimated_end	18474110
	located_end	18562110		
CH321-47E12 X	20176318	20264318	estimated_end	20176318
	located_end	20264318		
CH321-47E13 2L	22129766	22217766	estimated_end	22129766
	located_end	22217766		
CH321-47E17 2RHet	1631659	1719659	located_end	1631659
	estimated_end	1719659		
CH321-47E20 3R	9151716	9239716	located_end	9151716
	estimated_end	9239716		
CH321-47F03 2L	5887630	5975630	estimated_end	5887630
	located_end	5975630		
CH321-47F08 3R	23416970	23504970	located_end	23416970
	estimated_end	23504970		
CH321-47F09 3L	23608538	23696538	located_end	23608538
	estimated_end	23696538		
CH321-47F10 X	7700286	7788286	estimated_end	7700286
	located_end	7788286		
CH321-47F14 2R	12444319	12532319	estimated_end	12444319
	located_end	12532319		
CH321-47F21 3LHet	227412	315412	located_end	227412
	estimated_end	315412		
CH321-47G01 3L	21311036	21399036	located_end	21311036
	estimated_end	21399036		
CH321-47G04 X	16110077	16198077	located_end	16110077
	estimated_end	16198077		
CH321-47G09 3R	12662932	12750932	located_end	12662932
	estimated_end	12750932		
CH321-47G12 ArmU	7451507	7539507	estimated_end	7451507
	located_end	7539507		
CH321-47G15 3L	13759914	13847914	located_end	13759914
	estimated_end	13847914		
CH321-47G16 2L	11930802	12018802	estimated_end	11930802
	located_end	12018802		
CH321-47G19 3R	10910469	10998469	estimated_end	10910469
	located_end	10998469		
CH321-47G23 3L	17119911	17207911	estimated_end	17119911
	located_end	17207911		
CH321-47H01 2L	15517038	15605038	estimated_end	15517038
	located_end	15605038		
CH321-47H09 3L	12707787	12795787	estimated_end	12707787
	located_end	12795787		
CH321-47H11 3L	11994379	12082379	estimated_end	11994379
	located_end	12082379		
CH321-47H13 2L	12594918	12682918	located_end	12594918
	estimated_end	12682918		
CH321-47H14 3R	24557254	24645254	estimated_end	24557254
	located_end	24645254		
CH321-47H15 3R	22401586	22489586	estimated_end	22401586
	located_end	22489586		
CH321-47H17 3L	21631550	21719550	located_end	21631550
	estimated_end	21719550		
CH321-47H23 3RHet	1894421	1982421	located_end	1894421
	estimated_end	1982421		

CH321-47I01 2R	1918284	2006284	located_end	1918284
	estimated_end	2006284		
CH321-47I07 3R	2631221	2719221	located_end	2631221
	estimated_end	2719221		
CH321-47I08 3L	18160906	18248906	located_end	18160906
	estimated_end	18248906		
CH321-47I09 2R	8717381	8805381	estimated_end	8717381
	located_end	8805381		
CH321-47I10 X	21461778	21549778	located_end	21461778
	estimated_end	21549778		
CH321-47I11 2R	13298344	13386344	estimated_end	13298344
	located_end	13386344		
CH321-47I15 X	16185010	16273010	located_end	16185010
	estimated_end	16273010		
CH321-47I17 X	20143515	20231515	estimated_end	20143515
	located_end	20231515		
CH321-47J05 2L	14712827	14800827	located_end	14712827
	estimated_end	14800827		
CH321-47J08 X	2857238	2945238	located_end	2857238
	estimated_end	2945238		
CH321-47J09 2R	11886879	11974879	located_end	11886879
	estimated_end	11974879		
CH321-47J11 2R	19651901	19739901	located_end	19651901
	estimated_end	19739901		
CH321-47J13 4	651523	739523	estimated_end	651523
	located_end	739523		
CH321-47J16 3L	5354249	5442249	estimated_end	5354249
	located_end	5442249		
CH321-47J22 3R	18664589	18752589	estimated_end	18664589
	located_end	18752589		
CH321-47K01 3L	19608822	19696822	located_end	19608822
	estimated_end	19696822		
CH321-47K02 ArmU	4562183	4650183	located_end	4562183
	estimated_end	4650183		
CH321-47K05 3L	7799655	7887655	located_end	7799655
	estimated_end	7887655		
CH321-47K07 2R	2532577	2620577	estimated_end	2532577
	located_end	2620577		
CH321-47K08 3R	18652403	18740403	located_end	18652403
	estimated_end	18740403		
CH321-47K13 2L	8075353	8163353	located_end	8075353
	estimated_end	8163353		
CH321-47K14 3R	17357310	17445310	estimated_end	17357310
	located_end	17445310		
CH321-47K16 3R	17524515	17612515	estimated_end	17524515
	located_end	17612515		
CH321-47K17 ArmU	9373792	9461792	estimated_end	9373792
	located_end	9461792		
CH321-47K18 X	8901247	8989247	estimated_end	8901247
	located_end	8989247		
CH321-47L08 3L	3054446	3142446	estimated_end	3054446
	located_end	3142446		
CH321-47L09 X	22204331	22292331	located_end	22204331
	estimated_end	22292331		

CH321-47L15 3R	17224879	17312879	located_end	17224879
	estimated_end	17312879		
CH321-47L17 3R	27461236	27549236	estimated_end	27461236
	located_end	27549236		
CH321-47L22 3R	13282402	13370402	located_end	13282402
	estimated_end	13370402		
CH321-47M01 ArmU	3280729	3368729	located_end	3280729
	estimated_end	3368729		
CH321-47M12 3L	23747460	23835460	estimated_end	23747460
	located_end	23835460		
CH321-47M13 3R	6306529	6394529	estimated_end	6306529
	located_end	6394529		
CH321-47M17 3R	21291264	21379264	located_end	21291264
	estimated_end	21379264		
CH321-47M20 X	9384683	9472683	located_end	9384683
	estimated_end	9472683		
CH321-47M23 3R	4624064	4712064	estimated_end	4624064
	located_end	4712064		
CH321-47N01 2L	19212411	19300411	estimated_end	19212411
	located_end	19300411		
CH321-47N08 3R	21317589	21405589	located_end	21317589
	estimated_end	21405589		
CH321-47N11 3R	18757947	18845947	estimated_end	18757947
	located_end	18845947		
CH321-47N12 3R	7088790	7176790	estimated_end	7088790
	located_end	7176790		
CH321-47N16 3L	24174663	24262663	estimated_end	24174663
	located_end	24262663		
CH321-47N17 2L	18771539	18859539	located_end	18771539
	estimated_end	18859539		
CH321-47N18 3L	21986117	22074117	estimated_end	21986117
	located_end	22074117		
CH321-47N19 3L	902103	990103	estimated_end	902103
	located_end	990103		
CH321-47N20 2R	12547913	12635913	estimated_end	12547913
	located_end	12635913		
CH321-47N22 2R	6212807	6300807	located_end	6212807
	estimated_end	6300807		
CH321-47N24 3R	5402613	5490613	located_end	5402613
	estimated_end	5490613		
CH321-47O02 X	2598234	2686234	estimated_end	2598234
	located_end	2686234		
CH321-47O07 3R	19274881	19362881	estimated_end	19274881
	located_end	19362881		
CH321-47O17 2L	6620060	6708060	estimated_end	6620060
	located_end	6708060		
CH321-47O18 3R	19762132	19850132	located_end	19762132
	estimated_end	19850132		
CH321-47O20 2R	4369802	4457802	estimated_end	4369802
	located_end	4457802		
CH321-47O21 X	16753615	16841615	located_end	16753615
	estimated_end	16841615		
CH321-47O22 3L	3331823	3419823	located_end	3331823
	estimated_end	3419823		

CH321-47O23 3L	23562196	23650196	located_end	23562196
	estimated_end	23650196		
CH321-47P05 2R	19576025	19664025	estimated_end	19576025
	located_end	19664025		
CH321-47P07 4	103383	191383	located_end	103383
	estimated_end	191383		
CH321-47P08 ArmU	519630	607630	located_end	519630
	estimated_end	607630		
CH321-47P09 2R	7947856	8035856	located_end	7947856
	estimated_end	8035856		
CH321-47P11 X	3471157	3559157	located_end	3471157
	estimated_end	3559157		
CH321-47P13 2L	21915904	22003904	estimated_end	21915904
	located_end	22003904		
CH321-47P15 3R	19847108	19935108	located_end	19847108
	estimated_end	19935108		
CH321-47P20 3L	23076251	23164251	located_end	23076251
	estimated_end	23164251		
CH321-47P21 2L	22134903	22222903	located_end	22134903
	estimated_end	22222903		
CH321-48A07 2L	16107610	16195610	located_end	16107610
	estimated_end	16195610		
CH321-48A11 2L	18370778	18458778	located_end	18370778
	estimated_end	18458778		
CH321-48A12 3L	20804809	20892809	located_end	20804809
	estimated_end	20892809		
CH321-48A17 ArmU	7103075	7191075	estimated_end	7103075
	located_end	7191075		
CH321-48A19 2R	10885154	10973154	located_end	10885154
	estimated_end	10973154		
CH321-48A21 3L	7991743	8079743	located_end	7991743
	estimated_end	8079743		
CH321-48B01 X	7988367	8076367	located_end	7988367
	estimated_end	8076367		
CH321-48B07 2R	841060	929060	located_end	841060
	estimated_end	929060		
CH321-48B24 2R	8900884	8988884	located_end	8900884
	estimated_end	8988884		
CH321-48C02 3R	7027293	7115293	located_end	7027293
	estimated_end	7115293		
CH321-48C03 2L	10113445	10201445	estimated_end	10113445
	located_end	10201445		
CH321-48C05 2RHet	991127	1079127	estimated_end	991127
	located_end	1079127		
CH321-48C07 X	10449544	10537544	located_end	10449544
	estimated_end	10537544		
CH321-48C13 3R	9636692	9724692	estimated_end	9636692
	located_end	9724692		
CH321-48C18 3L	6665301	6753301	estimated_end	6665301
	located_end	6753301		
CH321-48C23 3L	17234004	17322004	estimated_end	17234004
	located_end	17322004		
CH321-48C24 3L	23191350	23279350	estimated_end	23191350
	located_end	23279350		

CH321-48D14 X	17438122	17526122	estimated_end	17438122
	located_end	17526122		
CH321-48D17 3R	9284001	9372001	estimated_end	9284001
	located_end	9372001		
CH321-48D21 3R	1528156	1616156	estimated_end	1528156
	located_end	1616156		
CH321-48D22 3R	14770439	14858439	estimated_end	14770439
	located_end	14858439		
CH321-48E03 3RHet	1464223	1552223	estimated_end	1464223
	located_end	1552223		
CH321-48E04 2L	22976900	23064900	located_end	22976900
	estimated_end	23064900		
CH321-48E05 X	1534727	1622727	located_end	1534727
	estimated_end	1622727		
CH321-48E09 3L	9043612	9131612	estimated_end	9043612
	located_end	9131612		
CH321-48E11 3R	8401022	8489022	estimated_end	8401022
	located_end	8489022		
CH321-48E21 2L	16407625	16495625	located_end	16407625
	estimated_end	16495625		
CH321-48F01 2L	2394884	2482884	estimated_end	2394884
	located_end	2482884		
CH321-48F10 2L	16183318	16271318	estimated_end	16183318
	located_end	16271318		
CH321-48F12 2R	14731555	14819555	estimated_end	14731555
	located_end	14819555		
CH321-48F14 3R	25211985	25299985	estimated_end	25211985
	located_end	25299985		
CH321-48F16 3R	9112503	9200503	estimated_end	9112503
	located_end	9200503		
CH321-48G02 2R	13455645	13543645	located_end	13455645
	estimated_end	13543645		
CH321-48G03 2L	9981686	10069686	located_end	9981686
	estimated_end	10069686		
CH321-48G04 3L	17909950	17997950	estimated_end	17909950
	located_end	17997950		
CH321-48G13 3R	3894666	3982666	estimated_end	3894666
	located_end	3982666		
CH321-48G14 X	17619299	17707299	located_end	17619299
	estimated_end	17707299		
CH321-48G15 3L	12874239	12962239	estimated_end	12874239
	located_end	12962239		
CH321-48G16 X	8491722	8579722	located_end	8491722
	estimated_end	8579722		
CH321-48G19 2L	18975268	19063268	located_end	18975268
	estimated_end	19063268		
CH321-48G20 X	1146761	1234761	estimated_end	1146761
	located_end	1234761		
CH321-48G24 3L	14812572	14900572	located_end	14812572
	estimated_end	14900572		
CH321-48H07 ArmU	9707959	9795959	estimated_end	9707959
	located_end	9795959		
CH321-48H14 3L	19351784	19439784	estimated_end	19351784
	located_end	19439784		

CH321-48H16 3L	3487966	3575966	located_end	3487966
	estimated_end	3575966		
CH321-48H17 2L	12309540	12397540	located_end	12309540
	estimated_end	12397540		
CH321-48H18 X	7715844	7803844	estimated_end	7715844
	located_end	7803844		
CH321-48H19 2L	5627361	5715361	estimated_end	5627361
	located_end	5715361		
CH321-48H24 3R	10491476	10579476	estimated_end	10491476
	located_end	10579476		
CH321-48I03 3R	9986500	10074500	estimated_end	9986500
	located_end	10074500		
CH321-48I06 2R	16549779	16637779	located_end	16549779
	estimated_end	16637779		
CH321-48I08 3R	18902457	18990457	estimated_end	18902457
	located_end	18990457		
CH321-48I12 3L	20429393	20517393	estimated_end	20429393
	located_end	20517393		
CH321-48I17 X	20143515	20231515	estimated_end	20143515
	located_end	20231515		
CH321-48I19 2L	5345737	5433737	located_end	5345737
	estimated_end	5433737		
CH321-48I20 3L	5659048	5747048	located_end	5659048
	estimated_end	5747048		
CH321-48I24 3R	7085130	7173130	estimated_end	7085130
	located_end	7173130		
CH321-48J01 2L	21761220	21849220	located_end	21761220
	estimated_end	21849220		
CH321-48J04 2L	16663579	16751579	estimated_end	16663579
	located_end	16751579		
CH321-48J14 2L	16042506	16130506	located_end	16042506
	estimated_end	16130506		
CH321-48J15 2L	13625369	13713369	estimated_end	13625369
	located_end	13713369		
CH321-48J21 X	10119798	10207798	estimated_end	10119798
	located_end	10207798		
CH321-48J22 3R	3069469	3157469	estimated_end	3069469
	located_end	3157469		
CH321-48K05 3R	4220476	4308476	located_end	4220476
	estimated_end	4308476		
CH321-48K08 3L	19582178	19670178	located_end	19582178
	estimated_end	19670178		
CH321-48K12 X	20181229	20269229	located_end	20181229
	estimated_end	20269229		
CH321-48K14 X	17785351	17873351	estimated_end	17785351
	located_end	17873351		
CH321-48K19 3L	3707756	3795756	estimated_end	3707756
	located_end	3795756		
CH321-48K21 2L	18008393	18096393	located_end	18008393
	estimated_end	18096393		
CH321-48K22 3L	2262982	2350982	estimated_end	2262982
	located_end	2350982		
CH321-48L04 3R	22663500	22751500	located_end	22663500
	estimated_end	22751500		

CH321-48L07 3L	17031563	17119563	located_end	17031563
	estimated_end	17119563		
CH321-48L09 3R	7712409	7800409	located_end	7712409
	estimated_end	7800409		
CH321-48L10 X	11417993	11505993	located_end	11417993
	estimated_end	11505993		
CH321-48L19 2R	13307657	13395657	located_end	13307657
	estimated_end	13395657		
CH321-48L21 3LHet	1112503	1200503	located_end	1112503
	estimated_end	1200503		
CH321-48L22 2R	9484934	9572934	estimated_end	9484934
	located_end	9572934		
CH321-48L24 2L	18561442	18649442	located_end	18561442
	estimated_end	18649442		
CH321-48M01 2L	16347813	16435813	located_end	16347813
	estimated_end	16435813		
CH321-48M05 X	7199787	7287787	located_end	7199787
	estimated_end	7287787		
CH321-48M07 2L	17140133	17228133	estimated_end	17140133
	located_end	17228133		
CH321-48M12 X	986467	1074467	estimated_end	986467
	located_end	1074467		
CH321-48M16 3LHet	2116890	2204890	located_end	2116890
	estimated_end	2204890		
CH321-48N03 3R	6782693	6870693	located_end	6782693
	estimated_end	6870693		
CH321-48N14 3R	6540045	6628045	estimated_end	6540045
	located_end	6628045		
CH321-48N15 3R	5783934	5871934	estimated_end	5783934
	located_end	5871934		
CH321-48N18 3R	702410	790410	located_end	702410
	estimated_end	790410		
CH321-48N20 2R	10343985	10431985	estimated_end	10343985
	located_end	10431985		
CH321-48N22 2R	3268936	3356936	estimated_end	3268936
	located_end	3356936		
CH321-48N24 3R	25972322	26060322	located_end	25972322
	estimated_end	26060322		
CH321-48O08 X	2479933	2567933	estimated_end	2479933
	located_end	2567933		
CH321-48O10 X	9224079	9312079	estimated_end	9224079
	located_end	9312079		
CH321-48O21 X	9457718	9545718	located_end	9457718
	estimated_end	9545718		
CH321-48O22 2R	13842219	13930219	located_end	13842219
	estimated_end	13930219		
CH321-48P11 3R	5977389	6065389	located_end	5977389
	estimated_end	6065389		
CH321-48P15 2RHet	2156818	2244818	located_end	2156818
	estimated_end	2244818		
CH321-48P19 3L	15385355	15473355	located_end	15385355
	estimated_end	15473355		
CH321-49A02 X	20697275	20785275	located_end	20697275
	estimated_end	20785275		

CH321-49A03 3L	11346769	11434769	located_end 11346769
	estimated_end	11434769	
CH321-49A04 3L	1994342	2082342	located_end 1994342
	estimated_end	2082342	
CH321-49A05 3R	26552433	26640433	estimated_end 26552433
	located_end	26640433	
CH321-49A06 X	4039872	4127872	located_end 4039872
	estimated_end	4127872	
CH321-49A07 3R	11668695	11756695	located_end 11668695
	estimated_end	11756695	
CH321-49A11 3L	14975348	15063348	located_end 14975348
	estimated_end	15063348	
CH321-49A13 2R	10735983	10823983	estimated_end 10735983
	located_end	10823983	
CH321-49A14 3R	14335259	14423259	estimated_end 14335259
	located_end	14423259	
CH321-49A15 X	184631	272631	estimated_end 184631
	located_end	272631	
CH321-49A20 2L	13789708	13877708	located_end 13789708
	estimated_end	13877708	
CH321-49A21 2R	7673453	7761453	located_end 7673453
	estimated_end	7761453	
CH321-49A22 2L	18010907	18098907	located_end 18010907
	estimated_end	18098907	
CH321-49B01 3L	2778743	2866743	estimated_end 2778743
	located_end	2866743	
CH321-49B03 3L	1994342	2082342	located_end 1994342
	estimated_end	2082342	
CH321-49B04 X	10403822	10491822	estimated_end 10403822
	located_end	10491822	
CH321-49B06 2L	17473792	17561792	estimated_end 17473792
	located_end	17561792	
CH321-49B09 3L	7640422	7728422	located_end 7640422
	estimated_end	7728422	
CH321-49B20 2L	4771800	4859800	estimated_end 4771800
	located_end	4859800	
CH321-49C01 X	9142121	9230121	located_end 9142121
	estimated_end	9230121	
CH321-49C02 ArmU	3554677	3642677	located_end 3554677
	estimated_end	3642677	
CH321-49C06 2L	14623108	14711108	located_end 14623108
	estimated_end	14711108	
CH321-49C07 2R	3271560	3359560	estimated_end 3271560
	located_end	3359560	
CH321-49C16 3L	20550551	20638551	located_end 20550551
	estimated_end	20638551	
CH321-49C17 3R	16734721	16822721	located_end 16734721
	estimated_end	16822721	
CH321-49C18 2L	10734453	10822453	estimated_end 10734453
	located_end	10822453	
CH321-49C20 X	12275543	12363543	estimated_end 12275543
	located_end	12363543	
CH321-49C21 3L	15710394	15798394	located_end 15710394
	estimated_end	15798394	

CH321-49C24 X	4335566	4423566	located_end	4335566
	estimated_end	4423566		
CH321-49D03 ArmU	9708223	9796223	estimated_end	9708223
	located_end	9796223		
CH321-49D06 X	3193387	3281387	estimated_end	3193387
	located_end	3281387		
CH321-49D08 2L	11316777	11404777	estimated_end	11316777
	located_end	11404777		
CH321-49D10 2R	1530359	1618359	estimated_end	1530359
	located_end	1618359		
CH321-49D12 2R	5957683	6045683	located_end	5957683
	estimated_end	6045683		
CH321-49D17 X	8868304	8956304	located_end	8868304
	estimated_end	8956304		
CH321-49D23 X	11609223	11697223	located_end	11609223
	estimated_end	11697223		
CH321-49E01 2L	14702427	14790427	estimated_end	14702427
	located_end	14790427		
CH321-49E03 3L	3336999	3424999	estimated_end	3336999
	located_end	3424999		
CH321-49E04 2L	16408143	16496143	estimated_end	16408143
	located_end	16496143		
CH321-49E10 2L	18786125	18874125	estimated_end	18786125
	located_end	18874125		
CH321-49E11 X	13608703	13696703	estimated_end	13608703
	located_end	13696703		
CH321-49E12 2L	15985035	16073035	estimated_end	15985035
	located_end	16073035		
CH321-49E13 3R	24019295	24107295	estimated_end	24019295
	located_end	24107295		
CH321-49E14 2R	4360782	4448782	located_end	4360782
	estimated_end	4448782		
CH321-49E15 3R	6799978	6887978	estimated_end	6799978
	located_end	6887978		
CH321-49E16 3R	16402929	16490929	estimated_end	16402929
	located_end	16490929		
CH321-49E17 2L	5336121	5424121	located_end	5336121
	estimated_end	5424121		
CH321-49E18 2RHet	697240	785240	located_end	697240
	estimated_end	785240		
CH321-49E20 X	13092153	13180153	located_end	13092153
	estimated_end	13180153		
CH321-49E22 X	13092153	13180153	located_end	13092153
	estimated_end	13180153		
CH321-49E23 2R	7758161	7846161	located_end	7758161
	estimated_end	7846161		
CH321-49F02 2R	705985	793985	located_end	705985
	estimated_end	793985		
CH321-49F06 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-49F09 2R	4185445	4273445	estimated_end	4185445
	located_end	4273445		
CH321-49F10 X	16505643	16593643	located_end	16505643
	estimated_end	16593643		

CH321-49F14 3L	14836027	14924027	located_end	14836027
	estimated_end	14924027		
CH321-49F18 3L	10218081	10306081	located_end	10218081
	estimated_end	10306081		
CH321-49G01 2L	14093408	14181408	estimated_end	14093408
	located_end	14181408		
CH321-49G02 2R	17576120	17664120	located_end	17576120
	estimated_end	17664120		
CH321-49G04 3L	13271186	13359186	located_end	13271186
	estimated_end	13359186		
CH321-49G05 3R	17099242	17187242	estimated_end	17099242
	located_end	17187242		
CH321-49G08 2L	21818859	21906859	located_end	21818859
	estimated_end	21906859		
CH321-49G12 X	2602817	2690817	estimated_end	2602817
	located_end	2690817		
CH321-49G13 2R	7198401	7286401	estimated_end	7198401
	located_end	7286401		
CH321-49G16 3R	567531	655531	estimated_end	567531
	located_end	655531		
CH321-49G17 2L	9926444	10014444	estimated_end	9926444
	located_end	10014444		
CH321-49G19 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-49H01 2L	4170065	4258065	estimated_end	4170065
	located_end	4258065		
CH321-49H05 3R	15202892	15290892	estimated_end	15202892
	located_end	15290892		
CH321-49H06 X	21985660	22073660	estimated_end	21985660
	located_end	22073660		
CH321-49H10 X	12493864	12581864	located_end	12493864
	estimated_end	12581864		
CH321-49H16 3L	3817744	3905744	located_end	3817744
	estimated_end	3905744		
CH321-49H17 2L	7661895	7749895	located_end	7661895
	estimated_end	7749895		
CH321-49H21 2R	12249831	12337831	located_end	12249831
	estimated_end	12337831		
CH321-49H22 2L	16970893	17058893	located_end	16970893
	estimated_end	17058893		
CH321-49I02 2L	8613105	8701105	located_end	8613105
	estimated_end	8701105		
CH321-49I04 3L	4576771	4664771	located_end	4576771
	estimated_end	4664771		
CH321-49I07 2R	8396014	8484014	estimated_end	8396014
	located_end	8484014		
CH321-49I08 2R	8031636	8119636	located_end	8031636
	estimated_end	8119636		
CH321-49I10 2R	7414813	7502813	located_end	7414813
	estimated_end	7502813		
CH321-49I11 2RHet	499118	587118	estimated_end	499118
	located_end	587118		
CH321-49I15 2R	4182359	4270359	located_end	4182359
	estimated_end	4270359		

CH321-49I20 3R	18869312	18957312	estimated_end	18869312
	located_end	18957312		
CH321-49J01 X	5731265	5819265	located_end	5731265
	estimated_end	5819265		
CH321-49J05 2R	1400056	1488056	estimated_end	1400056
	located_end	1488056		
CH321-49J08 3L	8801793	8889793	estimated_end	8801793
	located_end	8889793		
CH321-49J12 3L	21467010	21555010	estimated_end	21467010
	located_end	21555010		
CH321-49J13 3L	5978940	6066940	estimated_end	5978940
	located_end	6066940		
CH321-49J14 2L	6238785	6326785	estimated_end	6238785
	located_end	6326785		
CH321-49J15 X	16843522	16931522	located_end	16843522
	estimated_end	16931522		
CH321-49J16 2L	1846488	1934488	estimated_end	1846488
	located_end	1934488		
CH321-49J19 3R	23824821	23912821	located_end	23824821
	estimated_end	23912821		
CH321-49K04 3L	22004024	22092024	located_end	22004024
	estimated_end	22092024		
CH321-49K23 3R	18991958	19079958	located_end	18991958
	estimated_end	19079958		
CH321-49L01 X	603132	691132	located_end	603132
	estimated_end	691132		
CH321-49L05 3R	15907672	15995672	located_end	15907672
	estimated_end	15995672		
CH321-49L06 3LHet	406832	494832	estimated_end	406832
	located_end	494832		
CH321-49L09 2R	12847492	12935492	located_end	12847492
	estimated_end	12935492		
CH321-49L13 3R	24223355	24311355	estimated_end	24223355
	located_end	24311355		
CH321-49L15 3L	18893413	18981413	located_end	18893413
	estimated_end	18981413		
CH321-49L16 3R	26311716	26399716	located_end	26311716
	estimated_end	26399716		
CH321-49L19 3R	11230019	11318019	located_end	11230019
	estimated_end	11318019		
CH321-49L21 3L	8718891	8806891	located_end	8718891
	estimated_end	8806891		
CH321-49L22 3R	14959621	15047621	located_end	14959621
	estimated_end	15047621		
CH321-49L24 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-49M07 2L	12180903	12268903	estimated_end	12180903
	located_end	12268903		
CH321-49M09 2R	6440284	6528284	estimated_end	6440284
	located_end	6528284		
CH321-49M10 3L	8851721	8939721	located_end	8851721
	estimated_end	8939721		
CH321-49M11 2R	4161995	4249995	estimated_end	4161995
	located_end	4249995		

CH321-49M12 2L	18422328	18510328	estimated_end	18422328
	located_end	18510328		
CH321-49M13 XHet	67531	155531	located_end	67531
	estimated_end	155531		
CH321-49M14 2L	5236966	5324966	located_end	5236966
	estimated_end	5324966		
CH321-49M15 X	20130583	20218583	located_end	20130583
	estimated_end	20218583		
CH321-49M16 2L	9819992	9907992	located_end	9819992
	estimated_end	9907992		
CH321-49M19 2L	5679156	5767156	estimated_end	5679156
	located_end	5767156		
CH321-49M20 3L	20696602	20784602	estimated_end	20696602
	located_end	20784602		
CH321-49N03 ArmU	7717658	7805658	located_end	7717658
	estimated_end	7805658		
CH321-49N11 2L	8052524	8140524	located_end	8052524
	estimated_end	8140524		
CH321-49N15 3L	2264379	2352379	located_end	2264379
	estimated_end	2352379		
CH321-49N16 2L	8940052	9028052	located_end	8940052
	estimated_end	9028052		
CH321-49N18 X	8879384	8967384	located_end	8879384
	estimated_end	8967384		
CH321-49O06 2R	8096426	8184426	estimated_end	8096426
	located_end	8184426		
CH321-49O07 3R	7369394	7457394	estimated_end	7369394
	located_end	7457394		
CH321-49O08 3L	18687606	18775606	located_end	18687606
	estimated_end	18775606		
CH321-49O13 3L	13813504	13901504	estimated_end	13813504
	located_end	13901504		
CH321-49O17 3LHet	2396970	2484970	located_end	2396970
	estimated_end	2484970		
CH321-49O20 2L	1595649	1683649	located_end	1595649
	estimated_end	1683649		
CH321-49P11 2R	-19575	68425	estimated_end	-19575
	located_end	68425		
CH321-49P12 ArmU	4806230	4894230	located_end	4806230
	estimated_end	4894230		
CH321-49P23 2R	7198401	7286401	estimated_end	7198401
	located_end	7286401		
CH321-50A01 3R	23964270	24052270	located_end	23964270
	estimated_end	24052270		
CH321-50A03 2L	6230364	6318364	located_end	6230364
	estimated_end	6318364		
CH321-50A04 3L	19872489	19960489	located_end	19872489
	estimated_end	19960489		
CH321-50A07 2L	15771323	15859323	estimated_end	15771323
	located_end	15859323		
CH321-50A11 2R	14644517	14732517	estimated_end	14644517
	located_end	14732517		
CH321-50A15 2R	5959681	6047681	estimated_end	5959681
	located_end	6047681		

CH321-50A16 3L	18092257	18180257	estimated_end	18092257
	located_end	18180257		
CH321-50A22 X	9585087	9673087	estimated_end	9585087
	located_end	9673087		
CH321-50A24 3R	13719354	13807354	estimated_end	13719354
	located_end	13807354		
CH321-50B04 2R	14947138	15035138	located_end	14947138
	estimated_end	15035138		
CH321-50B05 ArmU	9707959	9795959	estimated_end	9707959
	located_end	9795959		
CH321-50B14 2R	2920023	3008023	located_end	2920023
	estimated_end	3008023		
CH321-50B22 3L	15414403	15502403	located_end	15414403
	estimated_end	15502403		
CH321-50B24 3L	24440264	24528264	estimated_end	24440264
	located_end	24528264		
CH321-50C01 3L	19166392	19254392	located_end	19166392
	estimated_end	19254392		
CH321-50D04 ArmU	2095474	2183474	estimated_end	2095474
	located_end	2183474		
CH321-50D05 X	19360220	19448220	located_end	19360220
	estimated_end	19448220		
CH321-50D10 2L	13619073	13707073	estimated_end	13619073
	located_end	13707073		
CH321-50D13 2L	4071765	4159765	located_end	4071765
	estimated_end	4159765		
CH321-50D23 3L	1009448	1097448	located_end	1009448
	estimated_end	1097448		
CH321-50D24 2L	14027084	14115084	located_end	14027084
	estimated_end	14115084		
CH321-50E03 2R	598919	686919	located_end	598919
	estimated_end	686919		
CH321-50E05 3L	5148118	5236118	located_end	5148118
	estimated_end	5236118		
CH321-50E06 X	3501269	3589269	estimated_end	3501269
	located_end	3589269		
CH321-50E07 3R	5708804	5796804	located_end	5708804
	estimated_end	5796804		
CH321-50E08 ArmU	1143506	1231506	estimated_end	1143506
	located_end	1231506		
CH321-50E10 2R	12248631	12336631	located_end	12248631
	estimated_end	12336631		
CH321-50F01 3R	22733337	22821337	located_end	22733337
	estimated_end	22821337		
CH321-50F17 X	21777183	21865183	estimated_end	21777183
	located_end	21865183		
CH321-50F24 3L	6859229	6947229	located_end	6859229
	estimated_end	6947229		
CH321-50G01 X	4678587	4766587	located_end	4678587
	estimated_end	4766587		
CH321-50G07 3R	218852	306852	estimated_end	218852
	located_end	306852		
CH321-50G08 2L	3078804	3166804	located_end	3078804
	estimated_end	3166804		

CH321-50G09 X	2300479	2388479	estimated_end	2300479
	located_end	2388479		
CH321-50G10 3R	9358598	9446598	estimated_end	9358598
	located_end	9446598		
CH321-50G11 3L	7253409	7341409	estimated_end	7253409
	located_end	7341409		
CH321-50G13 X	18597870	18685870	estimated_end	18597870
	located_end	18685870		
CH321-50G14 3R	15157974	15245974	estimated_end	15157974
	located_end	15245974		
CH321-50H04 3R	1741918	1829918	estimated_end	1741918
	located_end	1829918		
CH321-50H06 2R	12108211	12196211	estimated_end	12108211
	located_end	12196211		
CH321-50H08 3L	7941614	8029614	estimated_end	7941614
	located_end	8029614		
CH321-50H15 ArmU	7894065	7982065	estimated_end	7894065
	located_end	7982065		
CH321-50H16 X	5490901	5578901	located_end	5490901
	estimated_end	5578901		
CH321-50H23 3RHet	2210025	2298025	estimated_end	2210025
	located_end	2298025		
CH321-50I02 3L	8750755	8838755	located_end	8750755
	estimated_end	8838755		
CH321-50I06 2R	1970637	2058637	located_end	1970637
	estimated_end	2058637		
CH321-50I22 ArmU	9892344	9980344	located_end	9892344
	estimated_end	9980344		
CH321-50J01 3L	15448961	15536961	located_end	15448961
	estimated_end	15536961		
CH321-50J03 3R	3127840	3215840	located_end	3127840
	estimated_end	3215840		
CH321-50J09 3R	26806905	26894905	estimated_end	26806905
	located_end	26894905		
CH321-50J11 2L	22100443	22188443	estimated_end	22100443
	located_end	22188443		
CH321-50J14 2L	21295830	21383830	located_end	21295830
	estimated_end	21383830		
CH321-50J18 3L	1832689	1920689	estimated_end	1832689
	located_end	1920689		
CH321-50J21 3L	24118536	24206536	located_end	24118536
	estimated_end	24206536		
CH321-50J23 X	7209257	7297257	located_end	7209257
	estimated_end	7297257		
CH321-50J24 3R	15500118	15588118	located_end	15500118
	estimated_end	15588118		
CH321-50K01 3R	15299174	15387174	estimated_end	15299174
	located_end	15387174		
CH321-50K02 2L	3213224	3301224	estimated_end	3213224
	located_end	3301224		
CH321-50K04 2RHet	2985948	3073948	estimated_end	2985948
	located_end	3073948		
CH321-50K17 3L	14854960	14942960	located_end	14854960
	estimated_end	14942960		

CH321-50L01 X	15021270	15109270	located_end	15021270
	estimated_end	15109270		
CH321-50L02 X	8764981	8852981	located_end	8764981
	estimated_end	8852981		
CH321-50L12 2L	16676396	16764396	estimated_end	16676396
	located_end	16764396		
CH321-50L14 2R	16306605	16394605	estimated_end	16306605
	located_end	16394605		
CH321-50L23 2R	13057634	13145634	estimated_end	13057634
	located_end	13145634		
CH321-50L24 2L	19444144	19532144	estimated_end	19444144
	located_end	19532144		
CH321-50M12 3L	5308398	5396398	located_end	5308398
	estimated_end	5396398		
CH321-50N21 X	18922906	19010906	located_end	18922906
	estimated_end	19010906		
CH321-50O02 3L	2381222	2469222	estimated_end	2381222
	located_end	2469222		
CH321-50O08 2L	-65266	22734	estimated_end	-65266
	located_end	22734		
CH321-50P07 X	17214994	17302994	located_end	17214994
	estimated_end	17302994		
CH321-50P11 3R	20442992	20530992	estimated_end	20442992
	located_end	20530992		
CH321-50P12 2R	16232519	16320519	located_end	16232519
	estimated_end	16320519		
CH321-50P19 2L	17311441	17399441	located_end	17311441
	estimated_end	17399441		
CH321-50P20 3R	26743492	26831492	located_end	26743492
	estimated_end	26831492		
CH321-50P22 3L	9228211	9316211	estimated_end	9228211
	located_end	9316211		
CH321-50P23 X	18372053	18460053	estimated_end	18372053
	located_end	18460053		
CH321-51A03 2R	15196507	15284507	located_end	15196507
	estimated_end	15284507		
CH321-51A04 3R	12270492	12358492	estimated_end	12270492
	located_end	12358492		
CH321-51A06 2R	17121675	17209675	estimated_end	17121675
	located_end	17209675		
CH321-51A09 3L	4175262	4263262	located_end	4175262
	estimated_end	4263262		
CH321-51A10 X	14220486	14308486	estimated_end	14220486
	located_end	14308486		
CH321-51A12 3L	7031720	7119720	located_end	7031720
	estimated_end	7119720		
CH321-51A13 2L	1027187	1115187	estimated_end	1027187
	located_end	1115187		
CH321-51A14 2R	16815831	16903831	located_end	16815831
	estimated_end	16903831		
CH321-51A16 3R	6067563	6155563	estimated_end	6067563
	located_end	6155563		
CH321-51A17 2R	18924090	19012090	estimated_end	18924090
	located_end	19012090		

CH321-51A18 3R	13906716	13994716	estimated_end	13906716
	located_end	13994716		
CH321-51A19 2L	3924910	4012910	estimated_end	3924910
	located_end	4012910		
CH321-51A20 2R	14286240	14374240	estimated_end	14286240
	located_end	14374240		
CH321-51A21 2L	3916713	4004713	located_end	3916713
	estimated_end	4004713		
CH321-51A22 2L	10783429	10871429	located_end	10783429
	estimated_end	10871429		
CH321-51A23 3R	26926929	27014929	located_end	26926929
	estimated_end	27014929		
CH321-51A24 2L	15348296	15436296	estimated_end	15348296
	located_end	15436296		
CH321-51B02 2R	7266583	7354583	located_end	7266583
	estimated_end	7354583		
CH321-51B03 2R	11728998	11816998	located_end	11728998
	estimated_end	11816998		
CH321-51B04 2L	20226479	20314479	located_end	20226479
	estimated_end	20314479		
CH321-51B05 3R	15071256	15159256	estimated_end	15071256
	located_end	15159256		
CH321-51B06 3R	8972354	9060354	estimated_end	8972354
	located_end	9060354		
CH321-51B08 3R	4128120	4216120	estimated_end	4128120
	located_end	4216120		
CH321-51B10 3R	21484381	21572381	located_end	21484381
	estimated_end	21572381		
CH321-51B12 3R	553098	641098	estimated_end	553098
	located_end	641098		
CH321-51B13 3R	3697681	3785681	located_end	3697681
	estimated_end	3785681		
CH321-51B16 3L	14417050	14505050	estimated_end	14417050
	located_end	14505050		
CH321-51B17 3R	9007697	9095697	located_end	9007697
	estimated_end	9095697		
CH321-51B19 2L	14222306	14310306	estimated_end	14222306
	located_end	14310306		
CH321-51B20 4	314537	402537	located_end	314537
	estimated_end	402537		
CH321-51B23 3R	25117870	25205870	estimated_end	25117870
	located_end	25205870		
CH321-51B24 2L	5152	93152	located_end	5152
			estimated_end	93152
CH321-51C04 3R	6104787	6192787	estimated_end	6104787
	located_end	6192787		
CH321-51C05 3R	2437209	2525209	estimated_end	2437209
	located_end	2525209		
CH321-51C09 3R	13870876	13958876	located_end	13870876
	estimated_end	13958876		
CH321-51C10 2R	7141138	7229138	estimated_end	7141138
	located_end	7229138		
CH321-51C12 X	13376751	13464751	estimated_end	13376751
	located_end	13464751		

CH321-51C14 3R	24890683	24978683	estimated_end	24890683
	located_end	24978683		
CH321-51C15 X	11775146	11863146	located_end	11775146
	estimated_end	11863146		
CH321-51C16 2R	1729959	1817959	estimated_end	1729959
	located_end	1817959		
CH321-51C17 3L	9535605	9623605	located_end	9535605
	estimated_end	9623605		
CH321-51C21 2L	5653583	5741583	located_end	5653583
	estimated_end	5741583		
CH321-51C22 X	22232191	22320191	estimated_end	22232191
	located_end	22320191		
CH321-51D01 3R	431953	519953	located_end	431953
	estimated_end	519953		
CH321-51D02 X	8451197	8539197	located_end	8451197
	estimated_end	8539197		
CH321-51D08 X	19558685	19646685	located_end	19558685
	estimated_end	19646685		
CH321-51D09 3R	14988141	15076141	estimated_end	14988141
	located_end	15076141		
CH321-51D11 3R	8734079	8822079	located_end	8734079
	estimated_end	8822079		
CH321-51D12 X	5026568	5114568	estimated_end	5026568
	located_end	5114568		
CH321-51D13 2R	2792923	2880923	estimated_end	2792923
	located_end	2880923		
CH321-51D14 2L	1880361	1968361	located_end	1880361
	estimated_end	1968361		
CH321-51D16 2R	7942352	8030352	estimated_end	7942352
	located_end	8030352		
CH321-51D17 3R	21546328	21634328	located_end	21546328
	estimated_end	21634328		
CH321-51D18 X	443598	531598	estimated_end	443598
	located_end	531598		
CH321-51D20 2R	11893703	11981703	estimated_end	11893703
	located_end	11981703		
CH321-51D21 2R	5637595	5725595	located_end	5637595
	estimated_end	5725595		
CH321-51D23 2L	4991131	5079131	estimated_end	4991131
	located_end	5079131		
CH321-51E01 2R	10424442	10512442	located_end	10424442
	estimated_end	10512442		
CH321-51E03 2R	10047764	10135764	estimated_end	10047764
	located_end	10135764		
CH321-51E08 3R	25816694	25904694	located_end	25816694
	estimated_end	25904694		
CH321-51E13 3L	17913986	18001986	estimated_end	17913986
	located_end	18001986		
CH321-51E14 3L	6395128	6483128	estimated_end	6395128
	located_end	6483128		
CH321-51E15 3L	16291992	16379992	estimated_end	16291992
	located_end	16379992		
CH321-51E17 3L	20005582	20093582	estimated_end	20005582
	located_end	20093582		

CH321-51E20 2L	22427841	22515841	located_end	22427841
	estimated_end	22515841		
CH321-51E21 3R	18752586	18840586	located_end	18752586
	estimated_end	18840586		
CH321-51F01 2L	18489558	18577558	located_end	18489558
	estimated_end	18577558		
CH321-51F02 3L	10972950	11060950	located_end	10972950
	estimated_end	11060950		
CH321-51F04 3R	9207242	9295242	estimated_end	9207242
	located_end	9295242		
CH321-51F05 2L	13145967	13233967	located_end	13145967
	estimated_end	13233967		
CH321-51F06 2L	13715143	13803143	estimated_end	13715143
	located_end	13803143		
CH321-51F07 3L	6617841	6705841	located_end	6617841
	estimated_end	6705841		
CH321-51F08 3R	11512914	11600914	estimated_end	11512914
	located_end	11600914		
CH321-51F11 3RHet	226033	314033	located_end	226033
	estimated_end	314033		
CH321-51F15 2R	16001126	16089126	estimated_end	16001126
	located_end	16089126		
CH321-51F16 3R	6612096	6700096	estimated_end	6612096
	located_end	6700096		
CH321-51F18 X	8096097	8184097	estimated_end	8096097
	located_end	8184097		
CH321-51F20 2L	1203350	1291350	estimated_end	1203350
	located_end	1291350		
CH321-51F21 3L	21351623	21439623	estimated_end	21351623
	located_end	21439623		
CH321-51F22 3L	13714390	13802390	located_end	13714390
	estimated_end	13802390		
CH321-51F24 3L	14133136	14221136	located_end	14133136
	estimated_end	14221136		
CH321-51G03 2L	9073441	9161441	estimated_end	9073441
	located_end	9161441		
CH321-51G08 2L	11971467	12059467	located_end	11971467
	estimated_end	12059467		
CH321-51G14 3L	3201080	3289080	estimated_end	3201080
	located_end	3289080		
CH321-51G15 2R	9137961	9225961	estimated_end	9137961
	located_end	9225961		
CH321-51G16 2R	19359125	19447125	estimated_end	19359125
	located_end	19447125		
CH321-51G19 3L	14132447	14220447	estimated_end	14132447
	located_end	14220447		
CH321-51G20 3L	14413276	14501276	estimated_end	14413276
	located_end	14501276		
CH321-51G23 3L	730413	818413	located_end	730413
	estimated_end	818413		
CH321-51H01 2L	14113093	14201093	located_end	14113093
	estimated_end	14201093		
CH321-51H02 X	8629622	8717622	estimated_end	8629622
	located_end	8717622		

CH321-51H03 X	7306485	7394485	estimated_end	7306485
	located_end	7394485		
CH321-51H04 2R	12799856	12887856	located_end	12799856
	estimated_end	12887856		
CH321-51H06 3L	19718676	19806676	estimated_end	19718676
	located_end	19806676		
CH321-51H07 2R	5559640	5647640	estimated_end	5559640
	located_end	5647640		
CH321-51H08 3L	898934	986934	estimated_end	898934
	located_end	986934		
CH321-51H13 2R	13742109	13830109	located_end	13742109
	estimated_end	13830109		
CH321-51H16 2L	12616487	12704487	estimated_end	12616487
	located_end	12704487		
CH321-51H19 3L	13316148	13404148	located_end	13316148
	estimated_end	13404148		
CH321-51H20 2R	3169036	3257036	located_end	3169036
	estimated_end	3257036		
CH321-51H22 2R	16398948	16486948	estimated_end	16398948
	located_end	16486948		
CH321-51H23 3L	14994002	15082002	located_end	14994002
	estimated_end	15082002		
CH321-51H24 3L	1202104	1290104	estimated_end	1202104
	located_end	1290104		
CH321-51I01 2L	6920805	7008805	estimated_end	6920805
	located_end	7008805		
CH321-51I02 3L	8060231	8148231	estimated_end	8060231
	located_end	8148231		
CH321-51I04 X	2155579	2243579	estimated_end	2155579
	located_end	2243579		
CH321-51I05 3R	18430023	18518023	estimated_end	18430023
	located_end	18518023		
CH321-51I09 2L	8087666	8175666	located_end	8087666
	estimated_end	8175666		
CH321-51I10 X	17694536	17782536	estimated_end	17694536
	located_end	17782536		
CH321-51I12 X	2781487	2869487	estimated_end	2781487
	located_end	2869487		
CH321-51I15 2L	3955559	4043559	estimated_end	3955559
	located_end	4043559		
CH321-51I16 X	13696904	13784904	located_end	13696904
	estimated_end	13784904		
CH321-51I19 3L	17142377	17230377	estimated_end	17142377
	located_end	17230377		
CH321-51I20 3R	241049	329049	estimated_end	241049
	located_end	329049		
CH321-51I24 3L	22794659	22882659	estimated_end	22794659
	located_end	22882659		
CH321-51J01 2R	3233969	3321969	located_end	3233969
	estimated_end	3321969		
CH321-51J02 3R	21743029	21831029	estimated_end	21743029
	located_end	21831029		
CH321-51J03 4	644435	732435	estimated_end	644435
	located_end	732435		

CH321-51J05 3R	14568293	14656293	located_end	14568293
	estimated_end	14656293		
CH321-51J07 2LHet	273869	361869	located_end	273869
	estimated_end	361869		
CH321-51J08 2L	1657307	1745307	estimated_end	1657307
	located_end	1745307		
CH321-51J10 X	10105344	10193344	located_end	10105344
	estimated_end	10193344		
CH321-51J11 3R	8130798	8218798	estimated_end	8130798
	located_end	8218798		
CH321-51J15 3L	15810341	15898341	estimated_end	15810341
	located_end	15898341		
CH321-51J16 3R	12978179	13066179	located_end	12978179
	estimated_end	13066179		
CH321-51J18 3L	645103	733103	located_end	645103
	estimated_end	733103		
CH321-51J19 3L	23202211	23290211	estimated_end	23202211
	located_end	23290211		
CH321-51J21 2L	1299625	1387625	located_end	1299625
	estimated_end	1387625		
CH321-51J22 3R	12922604	13010604	located_end	12922604
	estimated_end	13010604		
CH321-51K01 X	17675850	17763850	estimated_end	17675850
	located_end	17763850		
CH321-51K06 2R	7695124	7783124	estimated_end	7695124
	located_end	7783124		
CH321-51K08 3R	3441077	3529077	located_end	3441077
	estimated_end	3529077		
CH321-51K10 2L	11955568	12043568	estimated_end	11955568
	located_end	12043568		
CH321-51K11 2L	17095456	17183456	estimated_end	17095456
	located_end	17183456		
CH321-51K12 2L	15167190	15255190	located_end	15167190
	estimated_end	15255190		
CH321-51K16 X	7318258	7406258	estimated_end	7318258
	located_end	7406258		
CH321-51K17 3R	11757083	11845083	located_end	11757083
	estimated_end	11845083		
CH321-51K18 3R	27432403	27520403	located_end	27432403
	estimated_end	27520403		
CH321-51K19 3R	9843176	9931176	estimated_end	9843176
	located_end	9931176		
CH321-51K20 X	13528538	13616538	estimated_end	13528538
	located_end	13616538		
CH321-51K21 2R	4111533	4199533	located_end	4111533
	estimated_end	4199533		
CH321-51K23 2L	11971293	12059293	estimated_end	11971293
	located_end	12059293		
CH321-51L01 2R	3587164	3675164	estimated_end	3587164
	located_end	3675164		
CH321-51L02 2L	8674344	8762344	estimated_end	8674344
	located_end	8762344		
CH321-51L03 2L	5025430	5113430	estimated_end	5025430
	located_end	5113430		

CH321-51L06 2L	10636534	10724534	located_end	10636534
	estimated_end	10724534		
CH321-51L12 2R	12317726	12405726	located_end	12317726
	estimated_end	12405726		
CH321-51L15 2RHet	1851839	1939839	located_end	1851839
	estimated_end	1939839		
CH321-51L16 3L	7712674	7800674	located_end	7712674
	estimated_end	7800674		
CH321-51L20 2R	16524047	16612047	located_end	16524047
	estimated_end	16612047		
CH321-51L22 3R	22664041	22752041	located_end	22664041
	estimated_end	22752041		
CH321-51L23 2R	8078805	8166805	located_end	8078805
	estimated_end	8166805		
CH321-51M03 3R	13734361	13822361	located_end	13734361
	estimated_end	13822361		
CH321-51M04 2R	15131954	15219954	located_end	15131954
	estimated_end	15219954		
CH321-51M05 X	17377433	17465433	estimated_end	17377433
	located_end	17465433		
CH321-51M07 3R	10404565	10492565	estimated_end	10404565
	located_end	10492565		
CH321-51M08 3L	14599817	14687817	located_end	14599817
	estimated_end	14687817		
CH321-51M09 2L	20561098	20649098	located_end	20561098
	estimated_end	20649098		
CH321-51M10 3L	22438621	22526621	estimated_end	22438621
	located_end	22526621		
CH321-51M11 X	21079966	21167966	estimated_end	21079966
	located_end	21167966		
CH321-51M12 3L	748237	836237	estimated_end	748237
	located_end	836237		
CH321-51M13 3L	7019052	7107052	located_end	7019052
	estimated_end	7107052		
CH321-51M14 X	4621709	4709709	located_end	4621709
	estimated_end	4709709		
CH321-51M15 X	181391	269391	located_end	181391
	estimated_end	269391		
CH321-51M16 2R	8505720	8593720	located_end	8505720
	estimated_end	8593720		
CH321-51M17 3R	21475734	21563734	located_end	21475734
	estimated_end	21563734		
CH321-51M18 3L	4379255	4467255	estimated_end	4379255
	located_end	4467255		
CH321-51M19 3L	19487912	19575912	estimated_end	19487912
	located_end	19575912		
CH321-51M20 2L	21399690	21487690	located_end	21399690
	estimated_end	21487690		
CH321-51M23 2L	1533189	1621189	estimated_end	1533189
	located_end	1621189		
CH321-51M24 3R	9559346	9647346	estimated_end	9559346
	located_end	9647346		
CH321-51N01 2L	13263582	13351582	estimated_end	13263582
	located_end	13351582		

CH321-51N03 2R	13887391	13975391	located_end	13887391
	estimated_end	13975391		
CH321-51N07 2R	2607286	2695286	estimated_end	2607286
	located_end	2695286		
CH321-51N11 3R	10135241	10223241	estimated_end	10135241
	located_end	10223241		
CH321-51N14 2L	14691264	14779264	estimated_end	14691264
	located_end	14779264		
CH321-51N16 3R	2987436	3075436	located_end	2987436
	estimated_end	3075436		
CH321-51N18 3L	2849098	2937098	located_end	2849098
	estimated_end	2937098		
CH321-51N19 3L	10040191	10128191	located_end	10040191
	estimated_end	10128191		
CH321-51N22 3L	15921566	16009566	estimated_end	15921566
	located_end	16009566		
CH321-51N23 3L	18316957	18404957	located_end	18316957
	estimated_end	18404957		
CH321-51O06 3L	4260321	4348321	estimated_end	4260321
	located_end	4348321		
CH321-51O09 3R	10220122	10308122	located_end	10220122
	estimated_end	10308122		
CH321-51O10 3L	14234768	14322768	estimated_end	14234768
	located_end	14322768		
CH321-51O11 2L	19481387	19569387	estimated_end	19481387
	located_end	19569387		
CH321-51O12 2R	20033002	20121002	located_end	20033002
	estimated_end	20121002		
CH321-51O15 3R	17567196	17655196	located_end	17567196
	estimated_end	17655196		
CH321-51O16 3L	8843352	8931352	located_end	8843352
	estimated_end	8931352		
CH321-51O20 3R	5637431	5725431	estimated_end	5637431
	located_end	5725431		
CH321-51O21 3LHet	1147131	1235131	located_end	1147131
	estimated_end	1235131		
CH321-51O24 3R	26126513	26214513	estimated_end	26126513
	located_end	26214513		
CH321-51P04 3L	14399244	14487244	estimated_end	14399244
	located_end	14487244		
CH321-51P07 2L	19693403	19781403	located_end	19693403
	estimated_end	19781403		
CH321-51P08 2L	10106142	10194142	estimated_end	10106142
	located_end	10194142		
CH321-51P11 X	3485295	3573295	located_end	3485295
	estimated_end	3573295		
CH321-51P12 X	2329894	2417894	estimated_end	2329894
	located_end	2417894		
CH321-51P17 3R	3751211	3839211	estimated_end	3751211
	located_end	3839211		
CH321-51P18 X	7064576	7152576	located_end	7064576
	estimated_end	7152576		
CH321-51P22 2R	12581196	12669196	located_end	12581196
	estimated_end	12669196		

CH321-51P24 X	12953692	13041692	located_end	12953692
	estimated_end	13041692		
CH321-52A02 3L	4214633	4302633	estimated_end	4214633
	located_end	4302633		
CH321-52A03 3R	1145271	1233271	estimated_end	1145271
	located_end	1233271		
CH321-52A04 3L	8327682	8415682	estimated_end	8327682
	located_end	8415682		
CH321-52A05 X	11710442	11798442	located_end	11710442
	estimated_end	11798442		
CH321-52A06 3L	8769196	8857196	estimated_end	8769196
	located_end	8857196		
CH321-52A07 3R	22187871	22275871	estimated_end	22187871
	located_end	22275871		
CH321-52A09 2L	12806275	12894275	located_end	12806275
	estimated_end	12894275		
CH321-52A10 3R	20248774	20336774	located_end	20248774
	estimated_end	20336774		
CH321-52A11 2L	1405336	1493336	estimated_end	1405336
	located_end	1493336		
CH321-52A12 X	12867608	12955608	located_end	12867608
	estimated_end	12955608		
CH321-52A13 2L	3188177	3276177	estimated_end	3188177
	located_end	3276177		
CH321-52A15 2L	15387016	15475016	estimated_end	15387016
	located_end	15475016		
CH321-52A16 2R	1744793	1832793	estimated_end	1744793
	located_end	1832793		
CH321-52A18 X	17927808	18015808	estimated_end	17927808
	located_end	18015808		
CH321-52A20 X	14543669	14631669	estimated_end	14543669
	located_end	14631669		
CH321-52A21 X	14319556	14407556	estimated_end	14319556
	located_end	14407556		
CH321-52B01 ArmU	6392876	6480876	estimated_end	6392876
	located_end	6480876		
CH321-52B03 3L	15734625	15822625	estimated_end	15734625
	located_end	15822625		
CH321-52B04 2L	1794704	1882704	located_end	1794704
	estimated_end	1882704		
CH321-52B06 3L	12246100	12334100	located_end	12246100
	estimated_end	12334100		
CH321-52B08 2L	11000280	11088280	located_end	11000280
	estimated_end	11088280		
CH321-52B12 3R	27641595	27729595	estimated_end	27641595
	located_end	27729595		
CH321-52B15 3L	16194974	16282974	located_end	16194974
	estimated_end	16282974		
CH321-52B16 3L	21783928	21871928	estimated_end	21783928
	located_end	21871928		
CH321-52B17 3R	19022617	19110617	located_end	19022617
	estimated_end	19110617		
CH321-52B18 2L	15101770	15189770	located_end	15101770
	estimated_end	15189770		

CH321-52B22 3L	16230373	16318373	located_end	16230373
estimated_end	16318373			
CH321-52B24 3R	298210	386210	estimated_end	298210
located_end	386210			
CH321-52C01 3R	18725295	18813295	located_end	18725295
estimated_end	18813295			
CH321-52C02 3R	19028291	19116291	located_end	19028291
estimated_end	19116291			
CH321-52C03 X	8217409	8305409	located_end	8217409
estimated_end	8305409			
CH321-52C06 2R	10562348	10650348	located_end	10562348
estimated_end	10650348			
CH321-52C08 3L	5997401	6085401	located_end	5997401
estimated_end	6085401			
CH321-52C09 X	2602820	2690820	estimated_end	2602820
located_end	2690820			
CH321-52C15 3L	17472995	17560995	located_end	17472995
estimated_end	17560995			
CH321-52C17 2L	16224293	16312293	located_end	16224293
estimated_end	16312293			
CH321-52C19 3L	6888902	6976902	estimated_end	6888902
located_end	6976902			
CH321-52C21 X	10888812	10976812	located_end	10888812
estimated_end	10976812			
CH321-52C24 2L	9243370	9331370	located_end	9243370
estimated_end	9331370			
CH321-52D01 X	2602820	2690820	estimated_end	2602820
located_end	2690820			
CH321-52D02 X	10827533	10915533	estimated_end	10827533
located_end	10915533			
CH321-52D04 X	2602820	2690820	estimated_end	2602820
located_end	2690820			
CH321-52D06 3R	4183074	4271074	located_end	4183074
estimated_end	4271074			
CH321-52D07 2R	16276515	16364515	located_end	16276515
estimated_end	16364515			
CH321-52D08 3L	18549135	18637135	estimated_end	18549135
located_end	18637135			
CH321-52D14 2R	13475707	13563707	located_end	13475707
estimated_end	13563707			
CH321-52E02 2L	5285418	5373418	located_end	5285418
estimated_end	5373418			
CH321-52E05 3R	27248494	27336494	estimated_end	27248494
located_end	27336494			
CH321-52E07 3R	4390231	4478231	located_end	4390231
estimated_end	4478231			
CH321-52E10 3R	14396045	14484045	located_end	14396045
estimated_end	14484045			
CH321-52E15 ArmU	6621757	6709757	located_end	6621757
estimated_end	6709757			
CH321-52E16 3L	23342763	23430763	estimated_end	23342763
located_end	23430763			
CH321-52E19 3L	9859935	9947935	estimated_end	9859935
located_end	9947935			

CH321-52E20 2R	6340833	6428833	estimated_end	6340833
	located_end	6428833		
CH321-52E24 2R	15192285	15280285	located_end	15192285
	estimated_end	15280285		
CH321-52F01 3L	15565591	15653591	located_end	15565591
	estimated_end	15653591		
CH321-52F02 3R	13046477	13134477	estimated_end	13046477
	located_end	13134477		
CH321-52F08 2L	22888207	22976207	located_end	22888207
	estimated_end	22976207		
CH321-52F13 3L	8730535	8818535	located_end	8730535
	estimated_end	8818535		
CH321-52F15 3R	3234707	3322707	estimated_end	3234707
	located_end	3322707		
CH321-52F16 3L	10972382	11060382	located_end	10972382
	estimated_end	11060382		
CH321-52F20 3R	17570930	17658930	located_end	17570930
	estimated_end	17658930		
CH321-52F21 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52F22 X	7925570	8013570	estimated_end	7925570
	located_end	8013570		
CH321-52F23 2R	7266148	7354148	estimated_end	7266148
	located_end	7354148		
CH321-52F24 2R	5526397	5614397	located_end	5526397
	estimated_end	5614397		
CH321-52G01 3R	25737302	25825302	located_end	25737302
	estimated_end	25825302		
CH321-52G02 2L	16840233	16928233	located_end	16840233
	estimated_end	16928233		
CH321-52G06 2R	9001325	9089325	estimated_end	9001325
	located_end	9089325		
CH321-52G10 X	13306741	13394741	estimated_end	13306741
	located_end	13394741		
CH321-52G14 3R	20323088	20411088	estimated_end	20323088
	located_end	20411088		
CH321-52G16 2L	2211940	2299940	estimated_end	2211940
	located_end	2299940		
CH321-52G19 3LHet	1891842	1979842	located_end	1891842
	estimated_end	1979842		
CH321-52G21 3R	7098780	7186780	located_end	7098780
	estimated_end	7186780		
CH321-52G22 2L	10477686	10565686	located_end	10477686
	estimated_end	10565686		
CH321-52G23 2L	16928744	17016744	estimated_end	16928744
	located_end	17016744		
CH321-52G24 3R	23654838	23742838	estimated_end	23654838
	located_end	23742838		
CH321-52H01 3L	13020832	13108832	located_end	13020832
	estimated_end	13108832		
CH321-52H02 2L	10847113	10935113	located_end	10847113
	estimated_end	10935113		
CH321-52H04 3R	24413855	24501855	estimated_end	24413855
	located_end	24501855		

CH321-52H15 2L	7970992	8058992	estimated_end	7970992
	located_end	8058992		
CH321-52H16 2R	11707099	11795099	located_end	11707099
	estimated_end	11795099		
CH321-52H17 2R	2351473	2439473	estimated_end	2351473
	located_end	2439473		
CH321-52H18 3L	10937934	11025934	located_end	10937934
	estimated_end	11025934		
CH321-52H19 2L	13239890	13327890	estimated_end	13239890
	located_end	13327890		
CH321-52H23 3R	9931004	10019004	located_end	9931004
	estimated_end	10019004		
CH321-52H24 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52I01 X	17289417	17377417	located_end	17289417
	estimated_end	17377417		
CH321-52I02 2L	12797967	12885967	estimated_end	12797967
	located_end	12885967		
CH321-52I03 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52I10 2R	13483051	13571051	located_end	13483051
	estimated_end	13571051		
CH321-52I12 2L	9294465	9382465	estimated_end	9294465
	located_end	9382465		
CH321-52I14 3R	13035592	13123592	estimated_end	13035592
	located_end	13123592		
CH321-52I17 3R	8451873	8539873	located_end	8451873
	estimated_end	8539873		
CH321-52I19 2R	16529795	16617795	estimated_end	16529795
	located_end	16617795		
CH321-52I21 3R	2502998	2590998	located_end	2502998
	estimated_end	2590998		
CH321-52I23 ArmU	2542877	2630877	located_end	2542877
	estimated_end	2630877		
CH321-52I24 3R	11974984	12062984	located_end	11974984
	estimated_end	12062984		
CH321-52J01 3LHet	827580	915580	located_end	827580
	estimated_end	915580		
CH321-52J02 3R	5200915	5288915	located_end	5200915
	estimated_end	5288915		
CH321-52J03 2R	10364871	10452871	located_end	10364871
	estimated_end	10452871		
CH321-52J06 2L	12269196	12357196	estimated_end	12269196
	located_end	12357196		
CH321-52J07 X	20699595	20787595	located_end	20699595
	estimated_end	20787595		
CH321-52J10 3L	23258414	23346414	located_end	23258414
	estimated_end	23346414		
CH321-52J13 X	20303864	20391864	estimated_end	20303864
	located_end	20391864		
CH321-52J14 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52J17 X	2599287	2687287	estimated_end	2599287
	located_end	2687287		

CH321-52J19 3R	27437474	27525474	estimated_end	27437474
	located_end	27525474		
CH321-52J22 X	8867609	8955609	located_end	8867609
	estimated_end	8955609		
CH321-52J23 3RHet	1289752	1377752	located_end	1289752
	estimated_end	1377752		
CH321-52K01 3R	10631857	10719857	estimated_end	10631857
	located_end	10719857		
CH321-52K02 3R	15913057	16001057	estimated_end	15913057
	located_end	16001057		
CH321-52K05 2L	6633821	6721821	estimated_end	6633821
	located_end	6721821		
CH321-52K07 3R	17513359	17601359	estimated_end	17513359
	located_end	17601359		
CH321-52K08 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52K11 2R	8395809	8483809	estimated_end	8395809
	located_end	8483809		
CH321-52K13 2R	12291490	12379490	estimated_end	12291490
	located_end	12379490		
CH321-52K14 4	325556	413556	located_end	325556
	estimated_end	413556		
CH321-52K17 X	1276431	1364431	located_end	1276431
	estimated_end	1364431		
CH321-52K18 X	21163497	21251497	estimated_end	21163497
	located_end	21251497		
CH321-52K19 2R	15590001	15678001	located_end	15590001
	estimated_end	15678001		
CH321-52K20 2R	5738165	5826165	estimated_end	5738165
	located_end	5826165		
CH321-52K21 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52K22 3L	5191608	5279608	estimated_end	5191608
	located_end	5279608		
CH321-52K24 3L	11613197	11701197	located_end	11613197
	estimated_end	11701197		
CH321-52L01 3R	16964196	17052196	estimated_end	16964196
	located_end	17052196		
CH321-52L02 2L	19665099	19753099	estimated_end	19665099
	located_end	19753099		
CH321-52L03 3L	19209075	19297075	located_end	19209075
	estimated_end	19297075		
CH321-52L04 2R	15571596	15659596	located_end	15571596
	estimated_end	15659596		
CH321-52L05 3L	15679781	15767781	located_end	15679781
	estimated_end	15767781		
CH321-52L06 3R	19960857	20048857	located_end	19960857
	estimated_end	20048857		
CH321-52L09 3R	4046443	4134443	located_end	4046443
	estimated_end	4134443		
CH321-52L10 2R	18076122	18164122	located_end	18076122
	estimated_end	18164122		
CH321-52L13 2R	16311448	16399448	located_end	16311448
	estimated_end	16399448		

CH321-52L14 X	5448491	5536491	located_end	5448491
	estimated_end	5536491		
CH321-52L17 3L	17148501	17236501	located_end	17148501
	estimated_end	17236501		
CH321-52L18 4	644137	732137	located_end	644137
	estimated_end	732137		
CH321-52L20 3L	19346978	19434978	estimated_end	19346978
	located_end	19434978		
CH321-52L21 2L	5580269	5668269	located_end	5580269
	estimated_end	5668269		
CH321-52L23 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52L24 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-52M02 3L	2860883	2948883	estimated_end	2860883
	located_end	2948883		
CH321-52M06 3R	777791	865791	estimated_end	777791
	located_end	865791		
CH321-52M08 3R	4318828	4406828	estimated_end	4318828
	located_end	4406828		
CH321-52M11 2L	13923144	14011144	located_end	13923144
	estimated_end	14011144		
CH321-52M12 3L	3511399	3599399	located_end	3511399
	estimated_end	3599399		
CH321-52M13 X	7480270	7568270	estimated_end	7480270
	located_end	7568270		
CH321-52M14 3RHet	9814	97814	located_end	9814
			estimated_end	97814
CH321-52M15 2R	7122440	7210440	located_end	7122440
	estimated_end	7210440		
CH321-52M17 2L	15071176	15159176	estimated_end	15071176
	located_end	15159176		
CH321-52M19 2R	12380689	12468689	estimated_end	12380689
	located_end	12468689		
CH321-52M20 X	3162838	3250838	estimated_end	3162838
	located_end	3250838		
CH321-52M21 3L	14094244	14182244	estimated_end	14094244
	located_end	14182244		
CH321-52M23 2L	4233703	4321703	estimated_end	4233703
	located_end	4321703		
CH321-52M24 2L	22140296	22228296	estimated_end	22140296
	located_end	22228296		
CH321-52N01 3R	26101291	26189291	estimated_end	26101291
	located_end	26189291		
CH321-52N02 3R	12702023	12790023	estimated_end	12702023
	located_end	12790023		
CH321-52N03 2L	11701774	11789774	located_end	11701774
	estimated_end	11789774		
CH321-52N04 3R	5216626	5304626	located_end	5216626
	estimated_end	5304626		
CH321-52N05 3L	8385157	8473157	estimated_end	8385157
	located_end	8473157		
CH321-52N06 X	11965026	12053026	located_end	11965026
	estimated_end	12053026		

CH321-52N07 X	6177333	6265333	located_end 6177333
	estimated_end	6265333	
CH321-52N08 2L	10153478	10241478	located_end 10153478
	estimated_end	10241478	
CH321-52N09 3R	15888779	15976779	located_end 15888779
	estimated_end	15976779	
CH321-52N10 X	9372752	9460752	estimated_end 9372752
	located_end	9460752	
CH321-52N12 X	3283205	3371205	located_end 3283205
	estimated_end	3371205	
CH321-52N14 2L	15416527	15504527	estimated_end 15416527
	located_end	15504527	
CH321-52N15 2L	22070234	22158234	located_end 22070234
	estimated_end	22158234	
CH321-52N16 X	20481068	20569068	located_end 20481068
	estimated_end	20569068	
CH321-52N17 3L	15898341	15986341	located_end 15898341
	estimated_end	15986341	
CH321-52N18 2L	4792025	4880025	located_end 4792025
	estimated_end	4880025	
CH321-52N19 2L	12716617	12804617	located_end 12716617
	estimated_end	12804617	
CH321-52N20 2R	3856997	3944997	located_end 3856997
	estimated_end	3944997	
CH321-52N21 3R	26086305	26174305	located_end 26086305
	estimated_end	26174305	
CH321-52N22 3R	15038114	15126114	estimated_end 15038114
	located_end	15126114	
CH321-52N23 2L	12608420	12696420	estimated_end 12608420
	located_end	12696420	
CH321-52N24 X	16369069	16457069	estimated_end 16369069
	located_end	16457069	
CH321-52O01 2L	19236042	19324042	estimated_end 19236042
	located_end	19324042	
CH321-52O02 3L	6339249	6427249	located_end 6339249
	estimated_end	6427249	
CH321-52O03 3L	18229966	18317966	estimated_end 18229966
	located_end	18317966	
CH321-52O04 3R	2294026	2382026	located_end 2294026
	estimated_end	2382026	
CH321-52O05 2R	2407215	2495215	located_end 2407215
	estimated_end	2495215	
CH321-52O06 2R	20197854	20285854	estimated_end 20197854
	located_end	20285854	
CH321-52O09 2R	9969060	10057060	estimated_end 9969060
	located_end	10057060	
CH321-52O10 X	18251770	18339770	estimated_end 18251770
	located_end	18339770	
CH321-52O11 X	18819693	18907693	estimated_end 18819693
	located_end	18907693	
CH321-52O12 3L	9091078	9179078	located_end 9091078
	estimated_end	9179078	
CH321-52O15 3R	5943101	6031101	estimated_end 5943101
	located_end	6031101	

CH321-52016 3R	9275808	9363808	estimated_end	9275808
	located_end	9363808		
CH321-52017 3R	5847973	5935973	located_end	5847973
	estimated_end	5935973		
CH321-52019 3L	6297306	6385306	estimated_end	6297306
	located_end	6385306		
CH321-52020 2L	6055172	6143172	estimated_end	6055172
	located_end	6143172		
CH321-52021 X	1069627	1157627	estimated_end	1069627
	located_end	1157627		
CH321-52022 2L	9652742	9740742	located_end	9652742
	estimated_end	9740742		
CH321-52023 2R	11253188	11341188	located_end	11253188
	estimated_end	11341188		
CH321-52024 2L	771001	859001	estimated_end	771001
	located_end	859001		
CH321-52P02 X	13271785	13359785	located_end	13271785
	estimated_end	13359785		
CH321-52P03 3L	10123999	10211999	estimated_end	10123999
	located_end	10211999		
CH321-52P04 3R	17772729	17860729	estimated_end	17772729
	located_end	17860729		
CH321-52P05 ArmU	9707938	9795938	estimated_end	9707938
	located_end	9795938		
CH321-52P06 3L	10046360	10134360	located_end	10046360
	estimated_end	10134360		
CH321-52P07 2L	11999452	12087452	estimated_end	11999452
	located_end	12087452		
CH321-52P08 2L	6625732	6713732	estimated_end	6625732
	located_end	6713732		
CH321-52P09 2L	17975576	18063576	located_end	17975576
	estimated_end	18063576		
CH321-52P11 2L	6541398	6629398	located_end	6541398
	estimated_end	6629398		
CH321-52P12 2R	939793	1027793	estimated_end	939793
	located_end	1027793		
CH321-52P14 2L	16105262	16193262	estimated_end	16105262
	located_end	16193262		
CH321-52P15 X	19233024	19321024	estimated_end	19233024
	located_end	19321024		
CH321-52P16 2L	8931697	9019697	estimated_end	8931697
	located_end	9019697		
CH321-52P17 3L	21537654	21625654	estimated_end	21537654
	located_end	21625654		
CH321-52P19 3L	6315246	6403246	located_end	6315246
	estimated_end	6403246		
CH321-52P20 2R	4037044	4125044	estimated_end	4037044
	located_end	4125044		
CH321-52P21 3L	488039	576039	estimated_end	488039
	located_end	576039		
CH321-52P22 2R	14357559	14445559	estimated_end	14357559
	located_end	14445559		
CH321-53A02 2R	5104924	5192924	estimated_end	5104924
	located_end	5192924		

CH321-53A04 X	11287928	11375928	located_end	11287928
	estimated_end	11375928		
CH321-53A07 X	8043667	8131667	estimated_end	8043667
	located_end	8131667		
CH321-53A09 X	5802818	5890818	estimated_end	5802818
	located_end	5890818		
CH321-53A10 2L	20462020	20550020	located_end	20462020
	estimated_end	20550020		
CH321-53A11 X	11068293	11156293	estimated_end	11068293
	located_end	11156293		
CH321-53A12 3L	18374956	18462956	located_end	18374956
	estimated_end	18462956		
CH321-53A13 2RHet	662644	750644	located_end	662644
	estimated_end	750644		
CH321-53A15 2R	20818812	20906812	estimated_end	20818812
	located_end	20906812		
CH321-53A17 2R	9354127	9442127	located_end	9354127
	estimated_end	9442127		
CH321-53A18 3L	20956605	21044605	estimated_end	20956605
	located_end	21044605		
CH321-53A19 ArmU	1253089	1341089	estimated_end	1253089
	located_end	1341089		
CH321-53A20 2R	8783918	8871918	estimated_end	8783918
	located_end	8871918		
CH321-53A21 3L	10364830	10452830	located_end	10364830
	estimated_end	10452830		
CH321-53B02 3R	155404	243404	located_end	155404
	estimated_end	243404		
CH321-53B04 3R	12688306	12776306	located_end	12688306
	estimated_end	12776306		
CH321-53B11 X	11903405	11991405	located_end	11903405
	estimated_end	11991405		
CH321-53B13 3LHet	1788718	1876718	estimated_end	1788718
	located_end	1876718		
CH321-53B15 2R	1600065	1688065	located_end	1600065
	estimated_end	1688065		
CH321-53B18 2L	18046598	18134598	estimated_end	18046598
	located_end	18134598		
CH321-53B19 2R	10662389	10750389	located_end	10662389
	estimated_end	10750389		
CH321-53B20 3L	8119707	8207707	located_end	8119707
	estimated_end	8207707		
CH321-53B21 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-53B22 3R	16303182	16391182	estimated_end	16303182
	located_end	16391182		
CH321-53C01 X	18267811	18355811	located_end	18267811
	estimated_end	18355811		
CH321-53C02 2R	7184506	7272506	estimated_end	7184506
	located_end	7272506		
CH321-53C03 3R	22057496	22145496	estimated_end	22057496
	located_end	22145496		
CH321-53C04 3L	9197594	9285594	located_end	9197594
	estimated_end	9285594		

CH321-53C08 3L	10495410	10583410	estimated_end	10495410
	located_end	10583410		
CH321-53C09 2R	9118752	9206752	located_end	9118752
	estimated_end	9206752		
CH321-53C10 3L	10672207	10760207	located_end	10672207
	estimated_end	10760207		
CH321-53C16 2R	12382743	12470743	located_end	12382743
	estimated_end	12470743		
CH321-53C17 X	9745861	9833861	located_end	9745861
	estimated_end	9833861		
CH321-53C18 3R	19372877	19460877	estimated_end	19372877
	located_end	19460877		
CH321-53C19 2R	20191568	20279568	located_end	20191568
	estimated_end	20279568		
CH321-53C20 3R	13359793	13447793	estimated_end	13359793
	located_end	13447793		
CH321-53C21 X	18410733	18498733	estimated_end	18410733
	located_end	18498733		
CH321-53C22 3R	11533918	11621918	estimated_end	11533918
	located_end	11621918		
CH321-53C23 X	4457095	4545095	located_end	4457095
	estimated_end	4545095		
CH321-53D01 2L	21835913	21923913	estimated_end	21835913
	located_end	21923913		
CH321-53D02 3R	27224748	27312748	located_end	27224748
	estimated_end	27312748		
CH321-53D04 4	539082	627082	estimated_end	539082
	located_end	627082		
CH321-53D05 X	6046986	6134986	located_end	6046986
	estimated_end	6134986		
CH321-53D07 2L	10759898	10847898	estimated_end	10759898
	located_end	10847898		
CH321-53D10 4	521892	609892	located_end	521892
	estimated_end	609892		
CH321-53D15 2L	10215420	10303420	estimated_end	10215420
	located_end	10303420		
CH321-53D16 X	5808745	5896745	located_end	5808745
	estimated_end	5896745		
CH321-53D19 3R	5305824	5393824	estimated_end	5305824
	located_end	5393824		
CH321-53D22 3L	4511260	4599260	located_end	4511260
	estimated_end	4599260		
CH321-53D23 2R	7791434	7879434	located_end	7791434
	estimated_end	7879434		
CH321-53E02 2R	5060620	5148620	estimated_end	5060620
	located_end	5148620		
CH321-53E03 2L	15196968	15284968	estimated_end	15196968
	located_end	15284968		
CH321-53E04 3R	25040140	25128140	located_end	25040140
	estimated_end	25128140		
CH321-53E05 3R	26101514	26189514	estimated_end	26101514
	located_end	26189514		
CH321-53E13 X	19249540	19337540	located_end	19249540
	estimated_end	19337540		

CH321-53E15 2L	8302750	8390750	located_end 8302750
	estimated_end	8390750	
CH321-53E17 3R	2745403	2833403	estimated_end 2745403
	located_end	2833403	
CH321-53E20 3R	21177061	21265061	located_end 21177061
	estimated_end	21265061	
CH321-53E21 2L	17732109	17820109	located_end 17732109
	estimated_end	17820109	
CH321-53E23 3L	20515808	20603808	located_end 20515808
	estimated_end	20603808	
CH321-53E24 3L	16011161	16099161	estimated_end 16011161
	located_end	16099161	
CH321-53F01 2L	1836229	1924229	estimated_end 1836229
	located_end	1924229	
CH321-53F02 3L	11283891	11371891	estimated_end 11283891
	located_end	11371891	
CH321-53F03 3R	25535800	25623800	estimated_end 25535800
	located_end	25623800	
CH321-53F05 2R	19477318	19565318	estimated_end 19477318
	located_end	19565318	
CH321-53F07 3L	5128543	5216543	located_end 5128543
	estimated_end	5216543	
CH321-53F08 3L	4111479	4199479	located_end 4111479
	estimated_end	4199479	
CH321-53F09 X	2602820	2690820	estimated_end 2602820
	located_end	2690820	
CH321-53F10 3R	26929105	27017105	located_end 26929105
	estimated_end	27017105	
CH321-53F14 2L	13796558	13884558	estimated_end 13796558
	located_end	13884558	
CH321-53F16 2R	11742035	11830035	located_end 11742035
	estimated_end	11830035	
CH321-53F17 2L	3342358	3430358	located_end 3342358
	estimated_end	3430358	
CH321-53F18 3R	18780600	18868600	estimated_end 18780600
	located_end	18868600	
CH321-53F22 3L	22812687	22900687	located_end 22812687
	estimated_end	22900687	
CH321-53F24 X	7878210	7966210	estimated_end 7878210
	located_end	7966210	
CH321-53G01 3L	4535661	4623661	estimated_end 4535661
	located_end	4623661	
CH321-53G02 3R	19292921	19380921	estimated_end 19292921
	located_end	19380921	
CH321-53G03 3L	4565544	4653544	located_end 4565544
	estimated_end	4653544	
CH321-53G04 2L	21245006	21333006	located_end 21245006
	estimated_end	21333006	
CH321-53G05 3L	23950123	24038123	located_end 23950123
	estimated_end	24038123	
CH321-53G09 3R	918789	1006789	estimated_end 918789
	located_end	1006789	
CH321-53G10 2L	4186505	4274505	located_end 4186505
	estimated_end	4274505	

CH321-53G12 3L	19390304	19478304	estimated_end	19390304
	located_end	19478304		
CH321-53G15 3R	6526663	6614663	located_end	6526663
	estimated_end	6614663		
CH321-53G16 2L	21943395	22031395	located_end	21943395
	estimated_end	22031395		
CH321-53G18 3L	17872810	17960810	located_end	17872810
	estimated_end	17960810		
CH321-53G20 X	13651254	13739254	located_end	13651254
	estimated_end	13739254		
CH321-53G22 3L	18288635	18376635	estimated_end	18288635
	located_end	18376635		
CH321-53G23 2R	14994488	15082488	located_end	14994488
	estimated_end	15082488		
CH321-53H01 3L	13325005	13413005	estimated_end	13325005
	located_end	13413005		
CH321-53H06 2R	11825490	11913490	located_end	11825490
	estimated_end	11913490		
CH321-53H07 3R	13737772	13825772	estimated_end	13737772
	located_end	13825772		
CH321-53H08 X	17033107	17121107	located_end	17033107
	estimated_end	17121107		
CH321-53H09 2R	10273779	10361779	located_end	10273779
	estimated_end	10361779		
CH321-53H10 2L	345159	433159	estimated_end	345159
	located_end	433159		
CH321-53H13 2R	19661727	19749727	located_end	19661727
	estimated_end	19749727		
CH321-53H14 3R	9811786	9899786	located_end	9811786
	estimated_end	9899786		
CH321-53H15 3L	14413677	14501677	estimated_end	14413677
	located_end	14501677		
CH321-53H16 X	5299009	5387009	located_end	5299009
	estimated_end	5387009		
CH321-53H18 3L	3445827	3533827	estimated_end	3445827
	located_end	3533827		
CH321-53H21 3R	13541084	13629084	estimated_end	13541084
	located_end	13629084		
CH321-53H22 3L	3722622	3810622	estimated_end	3722622
	located_end	3810622		
CH321-53H23 3R	3654374	3742374	estimated_end	3654374
	located_end	3742374		
CH321-53H24 2R	9337580	9425580	located_end	9337580
	estimated_end	9425580		
CH321-53I02 2L	13239905	13327905	estimated_end	13239905
	located_end	13327905		
CH321-53I03 3R	4852613	4940613	located_end	4852613
	estimated_end	4940613		
CH321-53I04 X	12250574	12338574	estimated_end	12250574
	located_end	12338574		
CH321-53I06 X	15490783	15578783	estimated_end	15490783
	located_end	15578783		
CH321-53I07 2R	8609451	8697451	located_end	8609451
	estimated_end	8697451		

CH321-53I09 X	7654330	7742330	located_end 7654330
	estimated_end	7742330	
CH321-53I17 3L	12057687	12145687	estimated_end 12057687
	located_end	12145687	
CH321-53I19 2L	5397638	5485638	located_end 5397638
	estimated_end	5485638	
CH321-53I20 3R	440971	528971	estimated_end 440971
	located_end	528971	
CH321-53I22 X	2602820	2690820	estimated_end 2602820
	located_end	2690820	
CH321-53I24 3R	27265973	27353973	located_end 27265973
	estimated_end	27353973	
CH321-53J01 2L	8293274	8381274	estimated_end 8293274
	located_end	8381274	
CH321-53J03 3R	20885127	20973127	estimated_end 20885127
	located_end	20973127	
CH321-53J05 2L	18866079	18954079	estimated_end 18866079
	located_end	18954079	
CH321-53J07 X	8019042	8107042	estimated_end 8019042
	located_end	8107042	
CH321-53J08 2R	6030440	6118440	located_end 6030440
	estimated_end	6118440	
CH321-53J09 2L	8535178	8623178	located_end 8535178
	estimated_end	8623178	
CH321-53J14 3L	3744542	3832542	located_end 3744542
	estimated_end	3832542	
CH321-53J18 2R	18728354	18816354	located_end 18728354
	estimated_end	18816354	
CH321-53J19 2L	21121420	21209420	estimated_end 21121420
	located_end	21209420	
CH321-53J20 3Rhet	2200093	2288093	located_end 2200093
	estimated_end	2288093	
CH321-53J21 3L	9198489	9286489	located_end 9198489
	estimated_end	9286489	
CH321-53J23 2L	22428850	22516850	located_end 22428850
	estimated_end	22516850	
CH321-53J24 3L	3936057	4024057	located_end 3936057
	estimated_end	4024057	
CH321-53K02 X	2602820	2690820	estimated_end 2602820
	located_end	2690820	
CH321-53K03 2R	20702418	20790418	located_end 20702418
	estimated_end	20790418	
CH321-53K04 2R	6597519	6685519	located_end 6597519
	estimated_end	6685519	
CH321-53K06 2R	13506485	13594485	estimated_end 13506485
	located_end	13594485	
CH321-53K08 3L	7429031	7517031	estimated_end 7429031
	located_end	7517031	
CH321-53K09 2L	8803524	8891524	estimated_end 8803524
	located_end	8891524	
CH321-53K10 3L	14545556	14633556	estimated_end 14545556
	located_end	14633556	
CH321-53K11 3R	19860379	19948379	estimated_end 19860379
	located_end	19948379	

CH321-53K16 X	9823419	9911419	estimated_end	9823419
	located_end	9911419		
CH321-53K17 3L	12487857	12575857	located_end	12487857
	estimated_end	12575857		
CH321-53K18 X	17056408	17144408	located_end	17056408
	estimated_end	17144408		
CH321-53K19 2R	7676108	7764108	located_end	7676108
	estimated_end	7764108		
CH321-53K21 3L	8742814	8830814	estimated_end	8742814
	located_end	8830814		
CH321-53K22 3R	3633439	3721439	estimated_end	3633439
	located_end	3721439		
CH321-53L01 3R	17859698	17947698	located_end	17859698
	estimated_end	17947698		
CH321-53L02 X	9036706	9124706	estimated_end	9036706
	located_end	9124706		
CH321-53L05 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-53L06 2RHet	615314	703314	located_end	615314
	estimated_end	703314		
CH321-53L08 2R	4060222	4148222	estimated_end	4060222
	located_end	4148222		
CH321-53L10 3L	8476644	8564644	estimated_end	8476644
	located_end	8564644		
CH321-53L14 X	11410398	11498398	estimated_end	11410398
	located_end	11498398		
CH321-53L15 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-53L20 3R	6282786	6370786	located_end	6282786
	estimated_end	6370786		
CH321-53L22 X	4300791	4388791	estimated_end	4300791
	located_end	4388791		
CH321-53L23 3R	13161184	13249184	estimated_end	13161184
	located_end	13249184		
CH321-53M01 2L	14218936	14306936	located_end	14218936
	estimated_end	14306936		
CH321-53M02 3R	7900830	7988830	estimated_end	7900830
	located_end	7988830		
CH321-53M04 3R	21594844	21682844	located_end	21594844
	estimated_end	21682844		
CH321-53M06 3R	2666875	2754875	located_end	2666875
	estimated_end	2754875		
CH321-53M07 2R	363199	451199	located_end	363199
	estimated_end	451199		
CH321-53M08 2L	4219565	4307565	estimated_end	4219565
	located_end	4307565		
CH321-53M09 3L	3200959	3288959	estimated_end	3200959
	located_end	3288959		
CH321-53M10 2R	14954842	15042842	estimated_end	14954842
	located_end	15042842		
CH321-53M12 3L	20955978	21043978	located_end	20955978
	estimated_end	21043978		
CH321-53M14 2R	3532353	3620353	located_end	3532353
	estimated_end	3620353		

CH321-53M16 X	247131	335131	estimated_end	247131
	located_end	335131		
CH321-53M19 2L	11999560	12087560	estimated_end	11999560
	located_end	12087560		
CH321-53M22 3LHet	2096309	2184309	estimated_end	2096309
	located_end	2184309		
CH321-53M23 3L	10914907	11002907	located_end	10914907
	estimated_end	11002907		
CH321-53M24 2R	3749560	3837560	estimated_end	3749560
	located_end	3837560		
CH321-53N02 2L	22025197	22113197	estimated_end	22025197
	located_end	22113197		
CH321-53N03 2L	13086559	13174559	located_end	13086559
	estimated_end	13174559		
CH321-53N06 2R	15169661	15257661	estimated_end	15169661
	located_end	15257661		
CH321-53N08 3L	5140837	5228837	estimated_end	5140837
	located_end	5228837		
CH321-53N10 2R	6217912	6305912	located_end	6217912
	estimated_end	6305912		
CH321-53N12 2L	17648690	17736690	located_end	17648690
	estimated_end	17736690		
CH321-53N13 ArmU	7905381	7993381	estimated_end	7905381
	located_end	7993381		
CH321-53N16 X	7462269	7550269	located_end	7462269
	estimated_end	7550269		
CH321-53N18 3R	17362946	17450946	estimated_end	17362946
	located_end	17450946		
CH321-53N19 2L	15386509	15474509	located_end	15386509
	estimated_end	15474509		
CH321-53N21 X	10010757	10098757	estimated_end	10010757
	located_end	10098757		
CH321-53N22 3R	12002674	12090674	located_end	12002674
	estimated_end	12090674		
CH321-53N23 X	13254451	13342451	estimated_end	13254451
	located_end	13342451		
CH321-53N24 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-53O01 3L	19905789	19993789	located_end	19905789
	estimated_end	19993789		
CH321-53O02 3R	17393827	17481827	located_end	17393827
	estimated_end	17481827		
CH321-53O03 3L	18957017	19045017	located_end	18957017
	estimated_end	19045017		
CH321-53O04 2R	9552540	9640540	estimated_end	9552540
	located_end	9640540		
CH321-53O05 2L	12099758	12187758	located_end	12099758
	estimated_end	12187758		
CH321-53O06 2L	17880801	17968801	estimated_end	17880801
	located_end	17968801		
CH321-53O07 3L	6448811	6536811	located_end	6448811
	estimated_end	6536811		
CH321-53O09 2L	21222485	21310485	estimated_end	21222485
	located_end	21310485		

CH321-53O12 3L	7614266	7702266	located_end	7614266
	estimated_end	7702266		
CH321-53O14 3R	11168196	11256196	located_end	11168196
	estimated_end	11256196		
CH321-53O16 2L	6081103	6169103	located_end	6081103
	estimated_end	6169103		
CH321-53O17 3R	14020306	14108306	located_end	14020306
	estimated_end	14108306		
CH321-53O19 2R	6986534	7074534	estimated_end	6986534
	located_end	7074534		
CH321-53O20 3R	13164766	13252766	estimated_end	13164766
	located_end	13252766		
CH321-53O24 3R	25322224	25410224	estimated_end	25322224
	located_end	25410224		
CH321-53P02 3L	18027834	18115834	estimated_end	18027834
	located_end	18115834		
CH321-53P03 2R	15188128	15276128	estimated_end	15188128
	located_end	15276128		
CH321-53P04 3L	22141832	22229832	estimated_end	22141832
	located_end	22229832		
CH321-53P05 3L	16077070	16165070	estimated_end	16077070
	located_end	16165070		
CH321-53P06 3R	20359615	20447615	located_end	20359615
	estimated_end	20447615		
CH321-53P09 3L	5373060	5461060	located_end	5373060
	estimated_end	5461060		
CH321-53P10 2R	7035485	7123485	located_end	7035485
	estimated_end	7123485		
CH321-53P11 3R	4186416	4274416	located_end	4186416
	estimated_end	4274416		
CH321-53P12 3L	10531730	10619730	estimated_end	10531730
	located_end	10619730		
CH321-53P13 3L	18673117	18761117	located_end	18673117
	estimated_end	18761117		
CH321-53P15 4	318489	406489	estimated_end	318489
	located_end	406489		
CH321-53P18 3L	22772612	22860612	estimated_end	22772612
	located_end	22860612		
CH321-53P19 3L	3944850	4032850	located_end	3944850
	estimated_end	4032850		
CH321-53P20 3R	9246004	9334004	located_end	9246004
	estimated_end	9334004		
CH321-53P22 X	1697827	1785827	located_end	1697827
	estimated_end	1785827		
CH321-53P23 3L	22295163	22383163	estimated_end	22295163
	located_end	22383163		
CH321-53P24 2L	21987601	22075601	estimated_end	21987601
	located_end	22075601		
CH321-54A02 2R	3731518	3819518	estimated_end	3731518
	located_end	3819518		
CH321-54A03 2L	4708760	4796760	estimated_end	4708760
	located_end	4796760		
CH321-54A06 2L	8131368	8219368	estimated_end	8131368
	located_end	8219368		

CH321-54A07 2L	13034003	13122003	located_end	13034003
	estimated_end	13122003		
CH321-54A08 X	5431125	5519125	estimated_end	5431125
	located_end	5519125		
CH321-54A09 3L	16352838	16440838	estimated_end	16352838
	located_end	16440838		
CH321-54A10 3L	334144	422144	located_end	334144
	estimated_end	422144		
CH321-54A11 3R	12734374	12822374	located_end	12734374
	estimated_end	12822374		
CH321-54A14 X	11103967	11191967	located_end	11103967
	estimated_end	11191967		
CH321-54A15 X	14544782	14632782	estimated_end	14544782
	located_end	14632782		
CH321-54A18 X	11331956	11419956	located_end	11331956
	estimated_end	11419956		
CH321-54A19 3R	197759	285759	estimated_end	197759
	located_end	285759		
CH321-54A21 3R	14774165	14862165	estimated_end	14774165
	located_end	14862165		
CH321-54B02 2L	18064564	18152564	located_end	18064564
	estimated_end	18152564		
CH321-54B04 2L	14627299	14715299	located_end	14627299
	estimated_end	14715299		
CH321-54B07 3L	10878349	10966349	estimated_end	10878349
	located_end	10966349		
CH321-54B08 3R	24237599	24325599	located_end	24237599
	estimated_end	24325599		
CH321-54B09 3R	17620211	17708211	estimated_end	17620211
	located_end	17708211		
CH321-54B10 X	20772804	20860804	estimated_end	20772804
	located_end	20860804		
CH321-54B11 ArmU	7543383	7631383	estimated_end	7543383
	located_end	7631383		
CH321-54B12 X	5432720	5520720	estimated_end	5432720
	located_end	5520720		
CH321-54B13 2L	5917409	6005409	estimated_end	5917409
	located_end	6005409		
CH321-54B16 3R	1522789	1610789	estimated_end	1522789
	located_end	1610789		
CH321-54B17 3R	6898437	6986437	located_end	6898437
	estimated_end	6986437		
CH321-54B18 X	-68270	19730	estimated_end	-68270
	located_end	19730		
CH321-54B21 3L	6374878	6462878	located_end	6374878
	estimated_end	6462878		
CH321-54B22 3R	5227149	5315149	estimated_end	5227149
	located_end	5315149		
CH321-54B23 3L	1110027	1198027	estimated_end	1110027
	located_end	1198027		
CH321-54B24 X	18775765	18863765	located_end	18775765
	estimated_end	18863765		
CH321-54C01 X	12724403	12812403	estimated_end	12724403
	located_end	12812403		

CH321-54C02 2L	22141321	22229321	estimated_end	22141321
	located_end	22229321		
CH321-54C03 2L	10525092	10613092	located_end	10525092
	estimated_end	10613092		
CH321-54C07 3R	3613419	3701419	estimated_end	3613419
	located_end	3701419		
CH321-54C08 3R	21732008	21820008	located_end	21732008
	estimated_end	21820008		
CH321-54C09 3LHet	753125	841125	located_end	753125
	estimated_end	841125		
CH321-54C11 2R	6557606	6645606	located_end	6557606
	estimated_end	6645606		
CH321-54C13 3R	22077858	22165858	estimated_end	22077858
	located_end	22165858		
CH321-54C14 2L	19979674	20067674	located_end	19979674
	estimated_end	20067674		
CH321-54C15 2L	12201018	12289018	located_end	12201018
	estimated_end	12289018		
CH321-54C16 3R	9671151	9759151	estimated_end	9671151
	located_end	9759151		
CH321-54C17 2RHet	3161883	3249883	located_end	3161883
	estimated_end	3249883		
CH321-54C18 3L	18008252	18096252	located_end	18008252
	estimated_end	18096252		
CH321-54C19 3R	19803711	19891711	located_end	19803711
	estimated_end	19891711		
CH321-54C20 3L	14083661	14171661	located_end	14083661
	estimated_end	14171661		
CH321-54C22 X	9300887	9388887	located_end	9300887
	estimated_end	9388887		
CH321-54D01 2R	18298368	18386368	estimated_end	18298368
	located_end	18386368		
CH321-54D02 3L	12509162	12597162	located_end	12509162
	estimated_end	12597162		
CH321-54D03 3R	11963242	12051242	estimated_end	11963242
	located_end	12051242		
CH321-54D07 3R	4979608	5067608	located_end	4979608
	estimated_end	5067608		
CH321-54D08 3L	211498	299498	estimated_end	211498
	located_end	299498		
CH321-54D12 2L	6189095	6277095	estimated_end	6189095
	located_end	6277095		
CH321-54D14 2L	11838428	11926428	estimated_end	11838428
	located_end	11926428		
CH321-54D19 3R	15759910	15847910	located_end	15759910
	estimated_end	15847910		
CH321-54D22 X	11134899	11222899	estimated_end	11134899
	located_end	11222899		
CH321-54D23 X	3880498	3968498	located_end	3880498
	estimated_end	3968498		
CH321-54D24 3L	20705492	20793492	estimated_end	20705492
	located_end	20793492		
CH321-54E01 2R	4979797	5067797	located_end	4979797
	estimated_end	5067797		

CH321-54E02 3R	4289652	4377652	located_end	4289652
	estimated_end	4377652		
CH321-54E03 2R	18359713	18447713	located_end	18359713
	estimated_end	18447713		
CH321-54E04 X	8078860	8166860	located_end	8078860
	estimated_end	8166860		
CH321-54E06 3R	9365396	9453396	estimated_end	9365396
	located_end	9453396		
CH321-54E07 3L	18993754	19081754	estimated_end	18993754
	located_end	19081754		
CH321-54E08 2R	2948499	3036499	estimated_end	2948499
	located_end	3036499		
CH321-54E09 2L	19942419	20030419	located_end	19942419
	estimated_end	20030419		
CH321-54E11 3R	26042317	26130317	located_end	26042317
	estimated_end	26130317		
CH321-54E16 2R	17285992	17373992	estimated_end	17285992
	located_end	17373992		
CH321-54E17 X	8168506	8256506	located_end	8168506
	estimated_end	8256506		
CH321-54E18 3R	22097554	22185554	estimated_end	22097554
	located_end	22185554		
CH321-54E19 3L	21322480	21410480	estimated_end	21322480
	located_end	21410480		
CH321-54E20 3L	8208469	8296469	located_end	8208469
	estimated_end	8296469		
CH321-54E21 2R	1827928	1915928	located_end	1827928
	estimated_end	1915928		
CH321-54E22 X	253312	341312	located_end	253312
	estimated_end	341312		
CH321-54E23 2L	11694121	11782121	located_end	11694121
	estimated_end	11782121		
CH321-54E24 3L	17226568	17314568	located_end	17226568
	estimated_end	17314568		
CH321-54F01 3R	4101514	4189514	estimated_end	4101514
	located_end	4189514		
CH321-54F03 3R	27373241	27461241	estimated_end	27373241
	located_end	27461241		
CH321-54F04 3R	15304002	15392002	located_end	15304002
	estimated_end	15392002		
CH321-54F06 2R	8705929	8793929	located_end	8705929
	estimated_end	8793929		
CH321-54F09 2L	14821798	14909798	estimated_end	14821798
	located_end	14909798		
CH321-54F10 2R	15275664	15363664	located_end	15275664
	estimated_end	15363664		
CH321-54F14 X	1642308	1730308	estimated_end	1642308
	located_end	1730308		
CH321-54F15 2R	9693118	9781118	estimated_end	9693118
	located_end	9781118		
CH321-54F20 2L	956190	1044190	located_end	956190
	estimated_end	1044190		
CH321-54F21 2R	13741831	13829831	located_end	13741831
	estimated_end	13829831		

CH321-54F22 2L	17784758	17872758	located_end	17784758
	estimated_end	17872758		
CH321-54F24 3R	25867271	25955271	estimated_end	25867271
	located_end	25955271		
CH321-54G01 2L	12349788	12437788	located_end	12349788
	estimated_end	12437788		
CH321-54G03 2L	8131491	8219491	located_end	8131491
	estimated_end	8219491		
CH321-54G05 3R	11975829	12063829	located_end	11975829
	estimated_end	12063829		
CH321-54G10 2R	8483192	8571192	estimated_end	8483192
	located_end	8571192		
CH321-54G11 2L	12490455	12578455	estimated_end	12490455
	located_end	12578455		
CH321-54G12 2L	22042424	22130424	estimated_end	22042424
	located_end	22130424		
CH321-54G14 2L	14397970	14485970	located_end	14397970
	estimated_end	14485970		
CH321-54G16 X	6099572	6187572	estimated_end	6099572
	located_end	6187572		
CH321-54G20 2L	14570421	14658421	estimated_end	14570421
	located_end	14658421		
CH321-54G21 3R	19983960	20071960	estimated_end	19983960
	located_end	20071960		
CH321-54G22 X	4076443	4164443	located_end	4076443
	estimated_end	4164443		
CH321-54G24 3L	11138593	11226593	located_end	11138593
	estimated_end	11226593		
CH321-54H04 2R	21007721	21095721	located_end	21007721
	estimated_end	21095721		
CH321-54H09 4	309251	397251	estimated_end	309251
	located_end	397251		
CH321-54H11 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-54H16 3L	22315086	22403086	located_end	22315086
	estimated_end	22403086		
CH321-54H17 X	17269994	17357994	estimated_end	17269994
	located_end	17357994		
CH321-54H18 2L	2850318	2938318	located_end	2850318
	estimated_end	2938318		
CH321-54H22 2R	11731752	11819752	estimated_end	11731752
	located_end	11819752		
CH321-54H23 3R	7514743	7602743	estimated_end	7514743
	located_end	7602743		
CH321-54I01 2R	19319652	19407652	located_end	19319652
	estimated_end	19407652		
CH321-54I02 3R	1684909	1772909	estimated_end	1684909
	located_end	1772909		
CH321-54I04 3L	20629729	20717729	estimated_end	20629729
	located_end	20717729		
CH321-54I09 3R	21454415	21542415	located_end	21454415
	estimated_end	21542415		
CH321-54I10 ArmU	1107828	1195828	estimated_end	1107828
	located_end	1195828		

CH321-54I11 X	10774088	10862088	located_end	10774088
	estimated_end	10862088		
CH321-54I19 2L	15671919	15759919	estimated_end	15671919
	located_end	15759919		
CH321-54I20 3L	913227	1001227	located_end	913227
	estimated_end	1001227		
CH321-54I22 2L	8580972	8668972	estimated_end	8580972
	located_end	8668972		
CH321-54I23 3R	7933004	8021004	located_end	7933004
	estimated_end	8021004		
CH321-54I24 3L	7939222	8027222	located_end	7939222
	estimated_end	8027222		
CH321-54J03 2R	16032541	16120541	located_end	16032541
	estimated_end	16120541		
CH321-54J04 2L	9670768	9758768	located_end	9670768
	estimated_end	9758768		
CH321-54J08 X	9378136	9466136	estimated_end	9378136
	located_end	9466136		
CH321-54J14 2L	2746545	2834545	estimated_end	2746545
	located_end	2834545		
CH321-54J16 2L	2637316	2725316	estimated_end	2637316
	located_end	2725316		
CH321-54J18 3L	16470736	16558736	estimated_end	16470736
	located_end	16558736		
CH321-54J20 ArmU	5858035	5946035	estimated_end	5858035
	located_end	5946035		
CH321-54J22 2R	7818520	7906520	estimated_end	7818520
	located_end	7906520		
CH321-54K01 3L	10041797	10129797	estimated_end	10041797
	located_end	10129797		
CH321-54K02 3R	9198651	9286651	located_end	9198651
	estimated_end	9286651		
CH321-54K03 3R	6753267	6841267	located_end	6753267
	estimated_end	6841267		
CH321-54K05 X	9577372	9665372	located_end	9577372
	estimated_end	9665372		
CH321-54K06 2L	20639525	20727525	located_end	20639525
	estimated_end	20727525		
CH321-54K09 3R	5287371	5375371	located_end	5287371
	estimated_end	5375371		
CH321-54K10 2R	14184088	14272088	estimated_end	14184088
	located_end	14272088		
CH321-54K11 3R	9350024	9438024	located_end	9350024
	estimated_end	9438024		
CH321-54K12 3L	9507437	9595437	located_end	9507437
	estimated_end	9595437		
CH321-54K13 2R	2923263	3011263	estimated_end	2923263
	located_end	3011263		
CH321-54K16 3R	14985477	15073477	located_end	14985477
	estimated_end	15073477		
CH321-54K17 2L	14680963	14768963	estimated_end	14680963
	located_end	14768963		
CH321-54K18 3R	760882	848882	estimated_end	760882
	located_end	848882		

CH321-54K19 2R	4123867	4211867	located_end	4123867
	estimated_end	4211867		
CH321-54K20 3R	19370030	19458030	estimated_end	19370030
	located_end	19458030		
CH321-54K21 X	10189699	10277699	located_end	10189699
	estimated_end	10277699		
CH321-54K22 2R	19304720	19392720	estimated_end	19304720
	located_end	19392720		
CH321-54K23 3L	11423150	11511150	located_end	11423150
	estimated_end	11511150		
CH321-54K24 2L	11724554	11812554	estimated_end	11724554
	located_end	11812554		
CH321-54L01 2R	3865709	3953709	located_end	3865709
	estimated_end	3953709		
CH321-54L03 3R	23314248	23402248	located_end	23314248
	estimated_end	23402248		
CH321-54L04 3L	3175420	3263420	estimated_end	3175420
	located_end	3263420		
CH321-54L07 3LHet	2071379	2159379	estimated_end	2071379
	located_end	2159379		
CH321-54L08 X	10001523	10089523	estimated_end	10001523
	located_end	10089523		
CH321-54L09 X	21428328	21516328	located_end	21428328
	estimated_end	21516328		
CH321-54L10 2L	12611054	12699054	located_end	12611054
	estimated_end	12699054		
CH321-54L12 3L	257527	345527	estimated_end	257527
	located_end	345527		
CH321-54L14 2L	4185908	4273908	estimated_end	4185908
	located_end	4273908		
CH321-54L16 3R	6263013	6351013	estimated_end	6263013
	located_end	6351013		
CH321-54L17 3R	16145221	16233221	estimated_end	16145221
	located_end	16233221		
CH321-54L18 2L	6239300	6327300	estimated_end	6239300
	located_end	6327300		
CH321-54L23 3R	4681279	4769279	estimated_end	4681279
	located_end	4769279		
CH321-54L24 3L	13762076	13850076	estimated_end	13762076
	located_end	13850076		
CH321-54M01 3L	13829486	13917486	estimated_end	13829486
	located_end	13917486		
CH321-54M02 3R	7720632	7808632	estimated_end	7720632
	located_end	7808632		
CH321-54M03 2L	9256181	9344181	estimated_end	9256181
	located_end	9344181		
CH321-54M04 X	9516334	9604334	located_end	9516334
	estimated_end	9604334		
CH321-54M05 3L	18872674	18960674	located_end	18872674
	estimated_end	18960674		
CH321-54M06 2L	17277821	17365821	located_end	17277821
	estimated_end	17365821		
CH321-54M09 3R	12534772	12622772	estimated_end	12534772
	located_end	12622772		

CH321-54M12 3R	15801455	15889455	located_end	15801455
	estimated_end	15889455		
CH321-54M13 X	8023187	8111187	located_end	8023187
	estimated_end	8111187		
CH321-54M15 ArmU	9138284	9226284	located_end	9138284
	estimated_end	9226284		
CH321-54M16 X	7301219	7389219	located_end	7301219
	estimated_end	7389219		
CH321-54M18 2L	12460227	12548227	located_end	12460227
	estimated_end	12548227		
CH321-54M20 2L	14021486	14109486	estimated_end	14021486
	located_end	14109486		
CH321-54M22 3L	21350247	21438247	estimated_end	21350247
	located_end	21438247		
CH321-54M24 X	8185710	8273710	estimated_end	8185710
	located_end	8273710		
CH321-54N01 X	18346819	18434819	estimated_end	18346819
	located_end	18434819		
CH321-54N03 3R	7082096	7170096	located_end	7082096
	estimated_end	7170096		
CH321-54N06 2R	2532697	2620697	estimated_end	2532697
	located_end	2620697		
CH321-54N07 2R	7741870	7829870	estimated_end	7741870
	located_end	7829870		
CH321-54N08 X	21495566	21583566	located_end	21495566
	estimated_end	21583566		
CH321-54N09 3R	1256886	1344886	estimated_end	1256886
	located_end	1344886		
CH321-54N10 3L	20706817	20794817	estimated_end	20706817
	located_end	20794817		
CH321-54N11 X	7826805	7914805	estimated_end	7826805
	located_end	7914805		
CH321-54N12 3L	21507327	21595327	located_end	21507327
	estimated_end	21595327		
CH321-54N13 X	18714867	18802867	estimated_end	18714867
	located_end	18802867		
CH321-54N14 X	19143885	19231885	estimated_end	19143885
	located_end	19231885		
CH321-54N16 2L	1471581	1559581	estimated_end	1471581
	located_end	1559581		
CH321-54N20 3R	17589025	17677025	estimated_end	17589025
	located_end	17677025		
CH321-54N21 3L	6192929	6280929	estimated_end	6192929
	located_end	6280929		
CH321-54N22 3R	25761136	25849136	estimated_end	25761136
	located_end	25849136		
CH321-54O01 3R	9414169	9502169	located_end	9414169
	estimated_end	9502169		
CH321-54O03 X	20476948	20564948	located_end	20476948
	estimated_end	20564948		
CH321-54O04 X	20541624	20629624	estimated_end	20541624
	located_end	20629624		
CH321-54O06 2R	12856284	12944284	located_end	12856284
	estimated_end	12944284		

CH321-54O08 3R	18159412	18247412	located_end	18159412
	estimated_end	18247412		
CH321-54O09 X	15399512	15487512	located_end	15399512
	estimated_end	15487512		
CH321-54O11 3L	16813421	16901421	located_end	16813421
	estimated_end	16901421		
CH321-54O12 3L	9851734	9939734	located_end	9851734
	estimated_end	9939734		
CH321-54O13 3R	12667008	12755008	estimated_end	12667008
	located_end	12755008		
CH321-54O14 2L	17390703	17478703	estimated_end	17390703
	located_end	17478703		
CH321-54O16 2R	675926	763926	located_end	675926
	estimated_end	763926		
CH321-54O17 X	6786067	6874067	located_end	6786067
	estimated_end	6874067		
CH321-54O19 2L	9010051	9098051	estimated_end	9010051
	located_end	9098051		
CH321-54O20 X	5707627	5795627	estimated_end	5707627
	located_end	5795627		
CH321-54O22 X	13851387	13939387	estimated_end	13851387
	located_end	13939387		
CH321-54O23 3R	1145271	1233271	estimated_end	1145271
	located_end	1233271		
CH321-54O24 2R	11740680	11828680	estimated_end	11740680
	located_end	11828680		
CH321-54P01 3R	2229213	2317213	located_end	2229213
	estimated_end	2317213		
CH321-54P02 X	6023014	6111014	located_end	6023014
	estimated_end	6111014		
CH321-54P04 2L	13909242	13997242	estimated_end	13909242
	located_end	13997242		
CH321-54P06 2R	13936273	14024273	located_end	13936273
	estimated_end	14024273		
CH321-54P07 X	7565715	7653715	located_end	7565715
	estimated_end	7653715		
CH321-54P09 2L	21231556	21319556	located_end	21231556
	estimated_end	21319556		
CH321-54P11 3L	5285417	5373417	estimated_end	5285417
	located_end	5373417		
CH321-54P13 X	12378626	12466626	estimated_end	12378626
	located_end	12466626		
CH321-54P14 3L	4853027	4941027	located_end	4853027
	estimated_end	4941027		
CH321-54P15 3R	12394138	12482138	located_end	12394138
	estimated_end	12482138		
CH321-54P16 3R	3338917	3426917	located_end	3338917
	estimated_end	3426917		
CH321-54P18 3L	22435222	22523222	located_end	22435222
	estimated_end	22523222		
CH321-54P19 2L	8700006	8788006	estimated_end	8700006
	located_end	8788006		
CH321-54P20 3R	22113318	22201318	located_end	22113318
	estimated_end	22201318		

CH321-54P21 3LHet	1304660	1392660	estimated_end	1304660
	located_end	1392660		
CH321-55A02 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-55A03 2R	12482949	12570949	located_end	12482949
	estimated_end	12570949		
CH321-55A05 2R	18532784	18620784	located_end	18532784
	estimated_end	18620784		
CH321-55A06 3L	11123992	11211992	estimated_end	11123992
	located_end	11211992		
CH321-55A08 2R	3927853	4015853	estimated_end	3927853
	located_end	4015853		
CH321-55A09 3R	15492577	15580577	located_end	15492577
	estimated_end	15580577		
CH321-55A10 3R	13510413	13598413	estimated_end	13510413
	located_end	13598413		
CH321-55A11 3R	476556	564556	located_end	476556
	estimated_end	564556		
CH321-55A14 3R	15173122	15261122	located_end	15173122
	estimated_end	15261122		
CH321-55A16 X	4971448	5059448	located_end	4971448
	estimated_end	5059448		
CH321-55A17 3L	10488806	10576806	located_end	10488806
	estimated_end	10576806		
CH321-55A18 3R	15315609	15403609	located_end	15315609
	estimated_end	15403609		
CH321-55A19 3L	10662492	10750492	estimated_end	10662492
	located_end	10750492		
CH321-55A20 2L	6568593	6656593	located_end	6568593
	estimated_end	6656593		
CH321-55A21 3R	6139978	6227978	estimated_end	6139978
	located_end	6227978		
CH321-55A22 X	16745682	16833682	estimated_end	16745682
	located_end	16833682		
CH321-55B01 2L	2693909	2781909	located_end	2693909
	estimated_end	2781909		
CH321-55B05 3R	26554679	26642679	estimated_end	26554679
	located_end	26642679		
CH321-55B06 3R	5101031	5189031	estimated_end	5101031
	located_end	5189031		
CH321-55B08 3L	13639547	13727547	estimated_end	13639547
	located_end	13727547		
CH321-55B10 3L	14360137	14448137	located_end	14360137
	estimated_end	14448137		
CH321-55B12 2L	792041	880041	estimated_end	792041
	located_end	880041		
CH321-55B15 2R	2978740	3066740	located_end	2978740
	estimated_end	3066740		
CH321-55B16 3L	7469321	7557321	estimated_end	7469321
	located_end	7557321		
CH321-55B17 3R	23220829	23308829	located_end	23220829
	estimated_end	23308829		
CH321-55B18 3R	177132	265132	located_end	177132
	estimated_end	265132		

CH321-55B19 2R	10392572	10480572	estimated_end	10392572
	located_end	10480572		
CH321-55B20 3R	22144309	22232309	estimated_end	22144309
	located_end	22232309		
CH321-55B22 3L	23905149	23993149	located_end	23905149
	estimated_end	23993149		
CH321-55B23 2R	12090207	12178207	located_end	12090207
	estimated_end	12178207		
CH321-55B24 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-55C01 3L	945090	1033090	located_end	945090
	estimated_end	1033090		
CH321-55C02 3R	5043764	5131764	located_end	5043764
	estimated_end	5131764		
CH321-55C03 3L	12547958	12635958	estimated_end	12547958
	located_end	12635958		
CH321-55C05 2R	20151261	20239261	located_end	20151261
	estimated_end	20239261		
CH321-55C06 X	4444000	4532000	located_end	4444000
	estimated_end	4532000		
CH321-55C09 3L	18365096	18453096	estimated_end	18365096
	located_end	18453096		
CH321-55C12 3L	6991627	7079627	estimated_end	6991627
	located_end	7079627		
CH321-55C13 X	9899200	9987200	estimated_end	9899200
	located_end	9987200		
CH321-55C15 2L	11306617	11394617	estimated_end	11306617
	located_end	11394617		
CH321-55C16 3L	18331819	18419819	located_end	18331819
	estimated_end	18419819		
CH321-55C18 2R	10257785	10345785	located_end	10257785
	estimated_end	10345785		
CH321-55C19 3L	885923	973923	located_end	885923
	estimated_end	973923		
CH321-55C20 3L	19680213	19768213	located_end	19680213
	estimated_end	19768213		
CH321-55C22 X	3212960	3300960	estimated_end	3212960
	located_end	3300960		
CH321-55C24 2R	8613220	8701220	estimated_end	8613220
	located_end	8701220		
CH321-55D01 3L	14467280	14555280	estimated_end	14467280
	located_end	14555280		
CH321-55D02 3L	19466611	19554611	estimated_end	19466611
	located_end	19554611		
CH321-55D11 3R	3633914	3721914	estimated_end	3633914
	located_end	3721914		
CH321-55D12 3R	3388308	3476308	estimated_end	3388308
	located_end	3476308		
CH321-55D13 3R	2795285	2883285	estimated_end	2795285
	located_end	2883285		
CH321-55D14 X	22049927	22137927	estimated_end	22049927
	located_end	22137927		
CH321-55D17 2L	12192990	12280990	estimated_end	12192990
	located_end	12280990		

CH321-55D21 X	8860361	8948361	located_end 8860361
	estimated_end	8948361	
CH321-55D23 2L	21415834	21503834	located_end 21415834
	estimated_end	21503834	
CH321-55D24 4	553288	641288	located_end 553288
	estimated_end	641288	
CH321-55E01 3L	16807676	16895676	estimated_end 16807676
	located_end	16895676	
CH321-55E02 3L	17915499	18003499	located_end 17915499
	estimated_end	18003499	
CH321-55E07 X	14837459	14925459	estimated_end 14837459
	located_end	14925459	
CH321-55E08 ArmU	7192186	7280186	located_end 7192186
	estimated_end	7280186	
CH321-55E09 3R	11743968	11831968	located_end 11743968
	estimated_end	11831968	
CH321-55E12 3L	14151138	14239138	estimated_end 14151138
	located_end	14239138	
CH321-55E15 3L	12383859	12471859	estimated_end 12383859
	located_end	12471859	
CH321-55E17 3R	6902552	6990552	estimated_end 6902552
	located_end	6990552	
CH321-55E18 3R	10507516	10595516	located_end 10507516
	estimated_end	10595516	
CH321-55E19 3LHet	1235672	1323672	located_end 1235672
	estimated_end	1323672	
CH321-55E20 2R	3184102	3272102	estimated_end 3184102
	located_end	3272102	
CH321-55E21 3R	8145511	8233511	located_end 8145511
	estimated_end	8233511	
CH321-55E22 2L	20922013	21010013	estimated_end 20922013
	located_end	21010013	
CH321-55F01 2L	5223171	5311171	located_end 5223171
	estimated_end	5311171	
CH321-55F07 2R	16254142	16342142	estimated_end 16254142
	located_end	16342142	
CH321-55F08 2L	6870602	6958602	located_end 6870602
	estimated_end	6958602	
CH321-55F09 2L	8525108	8613108	estimated_end 8525108
	located_end	8613108	
CH321-55F11 2L	14513258	14601258	located_end 14513258
	estimated_end	14601258	
CH321-55F12 2R	19581635	19669635	located_end 19581635
	estimated_end	19669635	
CH321-55F22 2R	498061	586061	located_end 498061
	estimated_end	586061	
CH321-55F24 2R	1766261	1854261	located_end 1766261
	estimated_end	1854261	
CH321-55G01 3L	19690869	19778869	estimated_end 19690869
	located_end	19778869	
CH321-55G02 2L	5604218	5692218	located_end 5604218
	estimated_end	5692218	
CH321-55G05 3R	10265774	10353774	located_end 10265774
	estimated_end	10353774	

CH321-55G06 2R	7895215	7983215	located_end 7895215
	estimated_end	7983215	
CH321-55G16 2R	7018603	7106603	located_end 7018603
	estimated_end	7106603	
CH321-55G17 2L	5269678	5357678	located_end 5269678
	estimated_end	5357678	
CH321-55G18 3R	10762373	10850373	estimated_end 10762373
	located_end	10850373	
CH321-55G20 3L	12687223	12775223	located_end 12687223
	estimated_end	12775223	
CH321-55G21 2R	18295645	18383645	located_end 18295645
	estimated_end	18383645	
CH321-55G24 3R	16043862	16131862	estimated_end 16043862
	located_end	16131862	
CH321-55H01 2L	3337726	3425726	located_end 3337726
	estimated_end	3425726	
CH321-55H04 2R	18149688	18237688	located_end 18149688
	estimated_end	18237688	
CH321-55H07 2L	19436027	19524027	located_end 19436027
	estimated_end	19524027	
CH321-55H10 2L	21942484	22030484	located_end 21942484
	estimated_end	22030484	
CH321-55H11 3R	12638634	12726634	estimated_end 12638634
	located_end	12726634	
CH321-55H12 X	8070981	8158981	located_end 8070981
	estimated_end	8158981	
CH321-55H14 2L	13862058	13950058	located_end 13862058
	estimated_end	13950058	
CH321-55H17 2L	11523704	11611704	estimated_end 11523704
	located_end	11611704	
CH321-55H20 3R	96112	184112	located_end 96112 estimated_end 184112
CH321-55H23 2L	18354524	18442524	located_end 18354524
	estimated_end	18442524	
CH321-55I05 3L	19858329	19946329	estimated_end 19858329
	located_end	19946329	
CH321-55I06 2R	17894340	17982340	located_end 17894340
	estimated_end	17982340	
CH321-55I09 2L	2580775	2668775	located_end 2580775
	estimated_end	2668775	
CH321-55I10 3R	3636153	3724153	estimated_end 3636153
	located_end	3724153	
CH321-55I13 3R	18022493	18110493	located_end 18022493
	estimated_end	18110493	
CH321-55I14 3L	9638232	9726232	estimated_end 9638232
	located_end	9726232	
CH321-55I15 2R	1398707	1486707	located_end 1398707
	estimated_end	1486707	
CH321-55I18 2R	7275465	7363465	located_end 7275465
	estimated_end	7363465	
CH321-55I19 2R	14973608	15061608	estimated_end 14973608
	located_end	15061608	
CH321-55I20 2L	898665	986665	located_end 898665
	estimated_end	986665	

CH321-55I22 3LHet	84554	172554	estimated_end	84554	located_end	172554
CH321-55I24 2R	17015167	17103167	estimated_end		located_end	17015167
CH321-55J01 2L	9915807	10003807	located_end	9915807		
	estimated_end	10003807				
CH321-55J02 3L	6935720	7023720	estimated_end		located_end	6935720
	located_end	7023720				
CH321-55J03 X	5158140	5246140	estimated_end		located_end	5158140
	located_end	5246140				
CH321-55J04 X	16354624	16442624	estimated_end		located_end	16354624
	located_end	16442624				
CH321-55J06 X	9554849	9642849	located_end	9554849		
	estimated_end	9642849				
CH321-55J07 2L	5659902	5747902	estimated_end		located_end	5659902
	located_end	5747902				
CH321-55J09 3L	21746706	21834706	estimated_end		located_end	21746706
	located_end	21834706				
CH321-55J11 2L	3506092	3594092	located_end	3506092		
	estimated_end	3594092				
CH321-55J13 3R	16553204	16641204	estimated_end		located_end	16553204
	located_end	16641204				
CH321-55J17 2R	11555543	11643543	located_end	11555543		
	estimated_end	11643543				
CH321-55J19 2L	14566071	14654071	estimated_end		located_end	14566071
	located_end	14654071				
CH321-55J23 2L	13006970	13094970	located_end	13006970		
	estimated_end	13094970				
CH321-55K01 X	16743536	16831536	located_end	16743536		
	estimated_end	16831536				
CH321-55K03 3R	19625986	19713986	estimated_end		located_end	19625986
	located_end	19713986				
CH321-55K05 X	15244593	15332593	estimated_end		located_end	15244593
	located_end	15332593				
CH321-55K06 X	16702527	16790527	estimated_end		located_end	16702527
	located_end	16790527				
CH321-55K07 3R	13593351	13681351	estimated_end		located_end	13593351
	located_end	13681351				
CH321-55K09 2L	13073591	13161591	located_end	13073591		
	estimated_end	13161591				
CH321-55K10 2L	7209959	7297959	estimated_end		located_end	7209959
	located_end	7297959				
CH321-55K13 2L	18879742	18967742	located_end	18879742		
	estimated_end	18967742				
CH321-55K14 3R	21464206	21552206	located_end	21464206		
	estimated_end	21552206				
CH321-55K17 X	21542575	21630575	located_end	21542575		
	estimated_end	21630575				
CH321-55K20 4	883670	971670	located_end	883670		
	estimated_end	971670				
CH321-55K23 ArmU	7380572	7468572	located_end	7380572		
	estimated_end	7468572				
CH321-55K24 3R	8923014	9011014	located_end	8923014		
	estimated_end	9011014				

CH321-55L01 3R	21172035	21260035	located_end 21172035
	estimated_end	21260035	
CH321-55L03 X	14332603	14420603	located_end 14332603
	estimated_end	14420603	
CH321-55L05 2R	17707613	17795613	estimated_end 17707613
	located_end	17795613	
CH321-55L07 3L	22341324	22429324	located_end 22341324
	estimated_end	22429324	
CH321-55L09 2R	9926683	10014683	located_end 9926683
	estimated_end	10014683	
CH321-55L10 2R	5559640	5647640	estimated_end 5559640
	located_end	5647640	
CH321-55L13 2R	1561244	1649244	located_end 1561244
	estimated_end	1649244	
CH321-55L15 2R	17275492	17363492	located_end 17275492
	estimated_end	17363492	
CH321-55L23 2L	7656021	7744021	estimated_end 7656021
	located_end	7744021	
CH321-55L24 3R	16686620	16774620	located_end 16686620
	estimated_end	16774620	
CH321-55M01 2L	8729367	8817367	estimated_end 8729367
	located_end	8817367	
CH321-55M02 3R	8379130	8467130	located_end 8379130
	estimated_end	8467130	
CH321-55M03 3L	18062190	18150190	located_end 18062190
	estimated_end	18150190	
CH321-55M04 2R	5796344	5884344	estimated_end 5796344
	located_end	5884344	
CH321-55M05 3L	3846079	3934079	estimated_end 3846079
	located_end	3934079	
CH321-55M07 3L	17853114	17941114	estimated_end 17853114
	located_end	17941114	
CH321-55M08 X	18462219	18550219	estimated_end 18462219
	located_end	18550219	
CH321-55M09 2L	8315505	8403505	estimated_end 8315505
	located_end	8403505	
CH321-55M10 2L	17990791	18078791	located_end 17990791
	estimated_end	18078791	
CH321-55M13 3R	27712869	27800869	estimated_end 27712869
	located_end	27800869	
CH321-55M14 3L	17106019	17194019	estimated_end 17106019
	located_end	17194019	
CH321-55M15 2R	13541681	13629681	located_end 13541681
	estimated_end	13629681	
CH321-55M16 3L	734696	822696	located_end 734696
	estimated_end	822696	
CH321-55M17 3R	24223596	24311596	located_end 24223596
	estimated_end	24311596	
CH321-55M19 2R	8134983	8222983	located_end 8134983
	estimated_end	8222983	
CH321-55M21 3R	13394255	13482255	estimated_end 13394255
	located_end	13482255	
CH321-55M22 3L	21828920	21916920	estimated_end 21828920
	located_end	21916920	

CH321-55M23 3R	12715414	12803414	located_end	12715414
	estimated_end	12803414		
CH321-55N02 3LHet	721232	809232	located_end	721232
	estimated_end	809232		
CH321-55N03 2L	9633121	9721121	located_end	9633121
	estimated_end	9721121		
CH321-55N04 2R	6338850	6426850	located_end	6338850
	estimated_end	6426850		
CH321-55N05 3L	20070155	20158155	located_end	20070155
	estimated_end	20158155		
CH321-55N06 3R	27776916	27864916	estimated_end	27776916
	located_end	27864916		
CH321-55N07 3L	21975456	22063456	estimated_end	21975456
	located_end	22063456		
CH321-55N08 2R	12417090	12505090	located_end	12417090
	estimated_end	12505090		
CH321-55N09 3R	1685941	1773941	located_end	1685941
	estimated_end	1773941		
CH321-55N10 2RHet	3166027	3254027	located_end	3166027
	estimated_end	3254027		
CH321-55N11 3L	22309900	22397900	located_end	22309900
	estimated_end	22397900		
CH321-55N15 3L	19675107	19763107	located_end	19675107
	estimated_end	19763107		
CH321-55N16 3L	21348925	21436925	estimated_end	21348925
	located_end	21436925		
CH321-55N19 3R	21300520	21388520	located_end	21300520
	estimated_end	21388520		
CH321-55N20 3L	3331161	3419161	located_end	3331161
	estimated_end	3419161		
CH321-55001 3L	6829563	6917563	estimated_end	6829563
	located_end	6917563		
CH321-55002 3L	5654441	5742441	located_end	5654441
	estimated_end	5742441		
CH321-55003 3L	3703218	3791218	located_end	3703218
	estimated_end	3791218		
CH321-55004 3R	9296456	9384456	estimated_end	9296456
	located_end	9384456		
CH321-55006 X	9569567	9657567	located_end	9569567
	estimated_end	9657567		
CH321-55007 3L	6026862	6114862	located_end	6026862
	estimated_end	6114862		
CH321-55008 3L	6560835	6648835	estimated_end	6560835
	located_end	6648835		
CH321-55009 X	17054435	17142435	located_end	17054435
	estimated_end	17142435		
CH321-55010 3L	15401610	15489610	located_end	15401610
	estimated_end	15489610		
CH321-55011 3R	23383447	23471447	located_end	23383447
	estimated_end	23471447		
CH321-55015 X	16981390	17069390	located_end	16981390
	estimated_end	17069390		
CH321-55019 3R	17333113	17421113	estimated_end	17333113
	located_end	17421113		

CH321-55O23 2L	2903759	2991759	located_end	2903759
	estimated_end	2991759		
CH321-55P02 2RHet	3159635	3247635	located_end	3159635
	estimated_end	3247635		
CH321-55P03 3R	27229396	27317396	located_end	27229396
	estimated_end	27317396		
CH321-55P04 2L	1399218	1487218	located_end	1399218
	estimated_end	1487218		
CH321-55P05 3R	8342491	8430491	located_end	8342491
	estimated_end	8430491		
CH321-55P07 3R	27260525	27348525	estimated_end	27260525
	located_end	27348525		
CH321-55P08 2R	376282	464282	estimated_end	376282
	located_end	464282		
CH321-55P09 2L	10645745	10733745	estimated_end	10645745
	located_end	10733745		
CH321-55P10 2R	18190685	18278685	estimated_end	18190685
	located_end	18278685		
CH321-55P11 3L	9212624	9300624	estimated_end	9212624
	located_end	9300624		
CH321-55P12 3R	5864246	5952246	estimated_end	5864246
	located_end	5952246		
CH321-55P13 3R	16145397	16233397	located_end	16145397
	estimated_end	16233397		
CH321-55P16 3L	945578	1033578	estimated_end	945578
	located_end	1033578		
CH321-55P18 3R	25191555	25279555	located_end	25191555
	estimated_end	25279555		
CH321-55P19 2L	14212999	14300999	located_end	14212999
	estimated_end	14300999		
CH321-55P21 3R	22331720	22419720	estimated_end	22331720
	located_end	22419720		
CH321-55P23 3R	219569	307569	located_end	219569
	estimated_end	307569		
CH321-56A02 3R	761568	849568	estimated_end	761568
	located_end	849568		
CH321-56A04 3L	19197059	19285059	estimated_end	19197059
	located_end	19285059		
CH321-56A05 X	12394677	12482677	estimated_end	12394677
	located_end	12482677		
CH321-56A06 3L	672836	760836	estimated_end	672836
	located_end	760836		
CH321-56A07 2R	15695224	15783224	located_end	15695224
	estimated_end	15783224		
CH321-56A08 3R	26387253	26475253	estimated_end	26387253
	located_end	26475253		
CH321-56A09 2R	4352370	4440370	located_end	4352370
	estimated_end	4440370		
CH321-56A10 2R	7296267	7384267	located_end	7296267
	estimated_end	7384267		
CH321-56A12 3R	25504562	25592562	located_end	25504562
	estimated_end	25592562		
CH321-56A13 2L	21754263	21842263	located_end	21754263
	estimated_end	21842263		

CH321-56A15 3R	10496000	10584000	located_end	10496000
	estimated_end	10584000		
CH321-56A16 2L	13933434	14021434	located_end	13933434
	estimated_end	14021434		
CH321-56A17 2R	2216137	2304137	located_end	2216137
	estimated_end	2304137		
CH321-56A18 3LHet	1236675	1324675	located_end	1236675
	estimated_end	1324675		
CH321-56A19 3L	5609627	5697627	estimated_end	5609627
	located_end	5697627		
CH321-56A21 3R	23916742	24004742	located_end	23916742
	estimated_end	24004742		
CH321-56A23 2R	11307292	11395292	estimated_end	11307292
	located_end	11395292		
CH321-56A24 3L	21183208	21271208	located_end	21183208
	estimated_end	21271208		
CH321-56B02 3R	17452698	17540698	located_end	17452698
	estimated_end	17540698		
CH321-56B05 2R	6733412	6821412	estimated_end	6733412
	located_end	6821412		
CH321-56B07 3R	26154277	26242277	estimated_end	26154277
	located_end	26242277		
CH321-56B10 3RHet	1895236	1983236	located_end	1895236
	estimated_end	1983236		
CH321-56B16 2L	6522152	6610152	located_end	6522152
	estimated_end	6610152		
CH321-56B17 2LHet	67228	155228	estimated_end	67228
	located_end	155228	located_end	
CH321-56B20 4	516101	604101	located_end	516101
	estimated_end	604101		
CH321-56B22 3L	15615290	15703290	located_end	15615290
	estimated_end	15703290		
CH321-56B24 3R	27599918	27687918	located_end	27599918
	estimated_end	27687918		
CH321-56C01 2L	5823373	5911373	located_end	5823373
	estimated_end	5911373		
CH321-56C02 3L	4690130	4778130	estimated_end	4690130
	located_end	4778130		
CH321-56C07 3R	21124956	21212956	estimated_end	21124956
	located_end	21212956		
CH321-56C08 3R	25626654	25714654	located_end	25626654
	estimated_end	25714654		
CH321-56C11 2L	8053960	8141960	located_end	8053960
	estimated_end	8141960		
CH321-56C15 3L	10531730	10619730	estimated_end	10531730
	located_end	10619730		
CH321-56C16 2R	18852173	18940173	estimated_end	18852173
	located_end	18940173		
CH321-56C20 3L	23423240	23511240	located_end	23423240
	estimated_end	23511240		
CH321-56C21 2L	9750064	9838064	located_end	9750064
	estimated_end	9838064		
CH321-56C24 2R	8849347	8937347	located_end	8849347
	estimated_end	8937347		

CH321-56D01 3R	27411418	27499418	located_end	27411418
	estimated_end	27499418		
CH321-56D05 2R	18317118	18405118	estimated_end	18317118
	located_end	18405118		
CH321-56D06 2L	2239106	2327106	estimated_end	2239106
	located_end	2327106		
CH321-56D07 3L	15417403	15505403	estimated_end	15417403
	located_end	15505403		
CH321-56D08 3R	3429102	3517102	located_end	3429102
	estimated_end	3517102		
CH321-56D14 3R	21403894	21491894	estimated_end	21403894
	located_end	21491894		
CH321-56D16 2L	6598970	6686970	located_end	6598970
	estimated_end	6686970		
CH321-56D18 3R	4853855	4941855	located_end	4853855
	estimated_end	4941855		
CH321-56E02 2L	7734232	7822232	estimated_end	7734232
	located_end	7822232		
CH321-56E04 X	5678096	5766096	estimated_end	5678096
	located_end	5766096		
CH321-56E05 3R	15309530	15397530	estimated_end	15309530
	located_end	15397530		
CH321-56E06 3R	2622678	2710678	estimated_end	2622678
	located_end	2710678		
CH321-56E09 2L	3211682	3299682	estimated_end	3211682
	located_end	3299682		
CH321-56E14 3R	20733247	20821247	estimated_end	20733247
	located_end	20821247		
CH321-56E18 3L	6184809	6272809	estimated_end	6184809
	located_end	6272809		
CH321-56E19 2L	6386750	6474750	estimated_end	6386750
	located_end	6474750		
CH321-56E22 3L	10122892	10210892	located_end	10122892
	estimated_end	10210892		
CH321-56E23 2L	3756054	3844054	estimated_end	3756054
	located_end	3844054		
CH321-56E24 2L	21736290	21824290	estimated_end	21736290
	located_end	21824290		
CH321-56F01 2R	4253934	4341934	estimated_end	4253934
	located_end	4341934		
CH321-56F03 3R	21207216	21295216	estimated_end	21207216
	located_end	21295216		
CH321-56F04 2L	20423245	20511245	estimated_end	20423245
	located_end	20511245		
CH321-56F08 2R	17480776	17568776	located_end	17480776
	estimated_end	17568776		
CH321-56F10 2R	8764061	8852061	estimated_end	8764061
	located_end	8852061		
CH321-56F12 3R	20226829	20314829	estimated_end	20226829
	located_end	20314829		
CH321-56F16 2R	6675392	6763392	estimated_end	6675392
	located_end	6763392		
CH321-56F18 3L	17191401	17279401	estimated_end	17191401
	located_end	17279401		

CH321-56F22 2R	6691789	6779789	located_end 6691789
	estimated_end	6779789	
CH321-56F24 X	7544981	7632981	located_end 7544981
	estimated_end	7632981	
CH321-56G01 X	14979514	15067514	estimated_end 14979514
	located_end	15067514	
CH321-56G02 ArmU	8322061	8410061	located_end 8322061
	estimated_end	8410061	
CH321-56G05 X	8318593	8406593	estimated_end 8318593
	located_end	8406593	
CH321-56G10 2R	18367746	18455746	located_end 18367746
	estimated_end	18455746	
CH321-56G12 X	10813398	10901398	located_end 10813398
	estimated_end	10901398	
CH321-56G13 X	4162411	4250411	estimated_end 4162411
	located_end	4250411	
CH321-56G14 2R	7281003	7369003	estimated_end 7281003
	located_end	7369003	
CH321-56G18 2L	7897071	7985071	located_end 7897071
	estimated_end	7985071	
CH321-56G20 2R	11539677	11627677	estimated_end 11539677
	located_end	11627677	
CH321-56G22 3RHet	1811750	1899750	located_end 1811750
	estimated_end	1899750	
CH321-56G24 3L	13431403	13519403	located_end 13431403
	estimated_end	13519403	
CH321-56H01 2L	22445339	22533339	located_end 22445339
	estimated_end	22533339	
CH321-56H02 2L	16107610	16195610	located_end 16107610
	estimated_end	16195610	
CH321-56H03 3R	18184485	18272485	located_end 18184485
	estimated_end	18272485	
CH321-56H07 2R	3473659	3561659	estimated_end 3473659
	located_end	3561659	
CH321-56H08 2R	9545158	9633158	estimated_end 9545158
	located_end	9633158	
CH321-56H12 3R	16309252	16397252	located_end 16309252
	estimated_end	16397252	
CH321-56H13 2L	17834294	17922294	located_end 17834294
	estimated_end	17922294	
CH321-56H16 2L	17531406	17619406	located_end 17531406
	estimated_end	17619406	
CH321-56H18 3L	11204995	11292995	estimated_end 11204995
	located_end	11292995	
CH321-56H19 X	21841495	21929495	estimated_end 21841495
	located_end	21929495	
CH321-56H20 3R	12714465	12802465	located_end 12714465
	estimated_end	12802465	
CH321-56H21 2R	1198666	1286666	estimated_end 1198666
	located_end	1286666	
CH321-56H22 X	901191	989191	estimated_end 901191
	located_end	989191	
CH321-56H24 3L	15364514	15452514	estimated_end 15364514
	located_end	15452514	

CH321-56I01 3R	13373437	13461437	located_end	13373437
	estimated_end	13461437		
CH321-56I10 2R	12561426	12649426	located_end	12561426
	estimated_end	12649426		
CH321-56I12 3R	16028450	16116450	located_end	16028450
	estimated_end	16116450		
CH321-56I20 2L	15309808	15397808	estimated_end	15309808
	located_end	15397808		
CH321-56I21 3R	8903749	8991749	located_end	8903749
	estimated_end	8991749		
CH321-56I22 2R	4956895	5044895	located_end	4956895
	estimated_end	5044895		
CH321-56I23 3L	16871581	16959581	located_end	16871581
	estimated_end	16959581		
CH321-56I24 3R	15161622	15249622	estimated_end	15161622
	located_end	15249622		
CH321-56J01 2RHet	3195250	3283250	located_end	3195250
	estimated_end	3283250		
CH321-56J02 3L	5669489	5757489	located_end	5669489
	estimated_end	5757489		
CH321-56J05 3L	8315975	8403975	estimated_end	8315975
	located_end	8403975		
CH321-56J07 3L	20885431	20973431	estimated_end	20885431
	located_end	20973431		
CH321-56J11 2L	11704643	11792643	estimated_end	11704643
	located_end	11792643		
CH321-56J13 X	5025210	5113210	located_end	5025210
	estimated_end	5113210		
CH321-56J14 2R	6404341	6492341	located_end	6404341
	estimated_end	6492341		
CH321-56J18 2R	3865106	3953106	located_end	3865106
	estimated_end	3953106		
CH321-56J19 ArmU	577852	665852	located_end	577852
	estimated_end	665852		
CH321-56J21 ArmU	2565528	2653528	located_end	2565528
	estimated_end	2653528		
CH321-56J23 3R	14148503	14236503	estimated_end	14148503
	located_end	14236503		
CH321-56K01 2R	1215692	1303692	located_end	1215692
	estimated_end	1303692		
CH321-56K06 3R	21340097	21428097	located_end	21340097
	estimated_end	21428097		
CH321-56K07 X	12696998	12784998	located_end	12696998
	estimated_end	12784998		
CH321-56K10 3L	21228435	21316435	located_end	21228435
	estimated_end	21316435		
CH321-56K13 3L	19700346	19788346	estimated_end	19700346
	located_end	19788346		
CH321-56K14 2L	16924321	17012321	estimated_end	16924321
	located_end	17012321		
CH321-56K15 X	11041854	11129854	estimated_end	11041854
	located_end	11129854		
CH321-56K16 ArmU	64147 152147		estimated_end	64147 located_end
	152147			

CH321-56K19 X	9672710	9760710	estimated_end	9672710
	located_end	9760710		
CH321-56K20 3L	7759674	7847674	located_end	7759674
	estimated_end	7847674		
CH321-56K22 X	19812919	19900919	estimated_end	19812919
	located_end	19900919		
CH321-56K24 2L	21995930	22083930	estimated_end	21995930
	located_end	22083930		
CH321-56L01 3L	16694746	16782746	located_end	16694746
	estimated_end	16782746		
CH321-56L03 3L	11916923	12004923	estimated_end	11916923
	located_end	12004923		
CH321-56L06 3L	18727657	18815657	located_end	18727657
	estimated_end	18815657		
CH321-56L13 2L	2046708	2134708	estimated_end	2046708
	located_end	2134708		
CH321-56L14 3L	17628875	17716875	located_end	17628875
	estimated_end	17716875		
CH321-56L20 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-56L22 2L	15289132	15377132	located_end	15289132
	estimated_end	15377132		
CH321-56L23 X	22249852	22337852	located_end	22249852
	estimated_end	22337852		
CH321-56L24 2L	21906402	21994402	estimated_end	21906402
	located_end	21994402		
CH321-56M01 2R	3055489	3143489	estimated_end	3055489
	located_end	3143489		
CH321-56M03 3L	3020160	3108160	estimated_end	3020160
	located_end	3108160		
CH321-56M04 3R	22210482	22298482	estimated_end	22210482
	located_end	22298482		
CH321-56M07 2R	10189364	10277364	located_end	10189364
	estimated_end	10277364		
CH321-56M16 3L	13151945	13239945	located_end	13151945
	estimated_end	13239945		
CH321-56M17 3R	24394961	24482961	estimated_end	24394961
	located_end	24482961		
CH321-56M22 2L	6649559	6737559	estimated_end	6649559
	located_end	6737559		
CH321-56M24 3Rhet	1811750	1899750	located_end	1811750
	estimated_end	1899750		
CH321-56N08 2R	2585553	2673553	located_end	2585553
	estimated_end	2673553		
CH321-56N16 2L	14198976	14286976	estimated_end	14198976
	located_end	14286976		
CH321-56N17 2R	12759053	12847053	located_end	12759053
	estimated_end	12847053		
CH321-56N21 3R	2503315	2591315	located_end	2503315
	estimated_end	2591315		
CH321-56N22 2R	11155670	11243670	estimated_end	11155670
	located_end	11243670		
CH321-56N23 2R	14387124	14475124	estimated_end	14387124
	located_end	14475124		

CH321-56001 2R	9211513	9299513	located_end	9211513
	estimated_end	9299513		
CH321-56002 2L	15746709	15834709	located_end	15746709
	estimated_end	15834709		
CH321-56004 X	3400219	3488219	located_end	3400219
	estimated_end	3488219		
CH321-56006 X	16337542	16425542	located_end	16337542
	estimated_end	16425542		
CH321-56007 3R	14118847	14206847	estimated_end	14118847
	located_end	14206847		
CH321-56009 3R	11684710	11772710	estimated_end	11684710
	located_end	11772710		
CH321-56010 X	3143507	3231507	located_end	3143507
	estimated_end	3231507		
CH321-56011 2L	14861204	14949204	located_end	14861204
	estimated_end	14949204		
CH321-56012 3L	9399158	9487158	located_end	9399158
	estimated_end	9487158		
CH321-56013 3R	14278339	14366339	estimated_end	14278339
	located_end	14366339		
CH321-56017 2L	18767309	18855309	estimated_end	18767309
	located_end	18855309		
CH321-56018 3R	9543582	9631582	located_end	9543582
	estimated_end	9631582		
CH321-56020 X	75468 163468		estimated_end	75468 located_end
	163468			
CH321-56021 2L	22048386	22136386	located_end	22048386
	estimated_end	22136386		
CH321-56022 2L	14424420	14512420	estimated_end	14424420
	located_end	14512420		
CH321-56023 X	9826776	9914776	located_end	9826776
	estimated_end	9914776		
CH321-56024 3R	15015809	15103809	estimated_end	15015809
	located_end	15103809		
CH321-56P03 3L	5944310	6032310	estimated_end	5944310
	located_end	6032310		
CH321-56P04 2R	6314969	6402969	estimated_end	6314969
	located_end	6402969		
CH321-56P05 3R	22539661	22627661	located_end	22539661
	estimated_end	22627661		
CH321-56P06 3L	15040558	15128558	estimated_end	15040558
	located_end	15128558		
CH321-56P09 2R	17099940	17187940	estimated_end	17099940
	located_end	17187940		
CH321-56P10 3R	24357755	24445755	estimated_end	24357755
	located_end	24445755		
CH321-56P11 2L	11665122	11753122	estimated_end	11665122
	located_end	11753122		
CH321-56P12 X	19898170	19986170	estimated_end	19898170
	located_end	19986170		
CH321-56P14 X	8217409	8305409	located_end	8217409
	estimated_end	8305409		
CH321-56P15 2L	8542171	8630171	estimated_end	8542171
	located_end	8630171		

CH321-56P16 2L	67611 155611		estimated_end	67611	located_end
	155611				
CH321-56P17 2L	15062461	15150461	estimated_end		15062461
	located_end	15150461			
CH321-56P18 3R	4845271	4933271	estimated_end		4845271
	located_end	4933271			
CH321-56P23 3L	20014432	20102432	located_end	20014432	
	estimated_end	20102432			
CH321-56P24 3L	16631609	16719609	estimated_end		16631609
	located_end	16719609			
CH321-57A01 2R	11611017	11699017	estimated_end		11611017
	located_end	11699017			
CH321-57A10 ArmU	6518016	6606016	located_end	6518016	
	estimated_end	6606016			
CH321-57B23 2L	1061236	1149236	estimated_end		1061236
	located_end	1149236			
CH321-57B24 3R	12312661	12400661	estimated_end		12312661
	located_end	12400661			
CH321-57C02 3L	22913773	23001773	estimated_end		22913773
	located_end	23001773			
CH321-57C06 3R	6962104	7050104	located_end	6962104	
	estimated_end	7050104			
CH321-57C07 4	319443	407443	located_end	319443	
	estimated_end	407443			
CH321-57C08 2RHet	902754	990754	estimated_end		902754
	located_end	990754			
CH321-57C21 3L	23641428	23729428	located_end	23641428	
	estimated_end	23729428			
CH321-57C22 2R	12289008	12377008	estimated_end		12289008
	located_end	12377008			
CH321-57C23 3R	7658936	7746936	located_end	7658936	
	estimated_end	7746936			
CH321-57D02 2RHet	3210826	3298826	located_end	3210826	
	estimated_end	3298826			
CH321-57D22 3L	5921083	6009083	estimated_end		5921083
	located_end	6009083			
CH321-57D24 2L	21661414	21749414	located_end	21661414	
	estimated_end	21749414			
CH321-57E02 2R	13238659	13326659	located_end	13238659	
	estimated_end	13326659			
CH321-57E08 3L	9190428	9278428	located_end	9190428	
	estimated_end	9278428			
CH321-57E12 X	17556779	17644779	located_end	17556779	
	estimated_end	17644779			
CH321-57E18 2L	6208536	6296536	estimated_end		6208536
	located_end	6296536			
CH321-57E21 2L	11700751	11788751	estimated_end		11700751
	located_end	11788751			
CH321-57F05 ArmU	5697737	5785737	located_end	5697737	
	estimated_end	5785737			
CH321-57F07 X	11746286	11834286	located_end	11746286	
	estimated_end	11834286			
CH321-57F08 2R	20425776	20513776	located_end	20425776	
	estimated_end	20513776			

CH321-57F10 3R	6900525	6988525	estimated_end	6900525
	located_end	6988525		
CH321-57F11 2L	12597691	12685691	estimated_end	12597691
	located_end	12685691		
CH321-57F17 3R	1573254	1661254	estimated_end	1573254
	located_end	1661254		
CH321-57F20 2L	15714645	15802645	estimated_end	15714645
	located_end	15802645		
CH321-57F22 X	14856057	14944057	estimated_end	14856057
	located_end	14944057		
CH321-57G05 3LHet	1393933	1481933	located_end	1393933
	estimated_end	1481933		
CH321-57G06 2L	22984274	23072274	located_end	22984274
	estimated_end	23072274		
CH321-57G14 3L	22742047	22830047	estimated_end	22742047
	located_end	22830047		
CH321-57G22 2L	10904125	10992125	estimated_end	10904125
	located_end	10992125		
CH321-57H12 2R	9144671	9232671	located_end	9144671
	estimated_end	9232671		
CH321-57H23 2L	21932540	22020540	located_end	21932540
	estimated_end	22020540		
CH321-57I12 3R	15428984	15516984	located_end	15428984
	estimated_end	15516984		
CH321-57I15 3L	9000084	9088084	estimated_end	9000084
	located_end	9088084		
CH321-57I16 X	20309905	20397905	estimated_end	20309905
	located_end	20397905		
CH321-57I18 3L	3650312	3738312	estimated_end	3650312
	located_end	3738312		
CH321-57J10 2R	4256169	4344169	estimated_end	4256169
	located_end	4344169		
CH321-57J11 X	20814728	20902728	estimated_end	20814728
	located_end	20902728		
CH321-57J12 2L	21087553	21175553	estimated_end	21087553
	located_end	21175553		
CH321-57J14 3R	22826784	22914784	estimated_end	22826784
	located_end	22914784		
CH321-57J15 2L	11165188	11253188	located_end	11165188
	estimated_end	11253188		
CH321-57J16 2R	12316179	12404179	located_end	12316179
	estimated_end	12404179		
CH321-57J17 3L	23427354	23515354	located_end	23427354
	estimated_end	23515354		
CH321-57J18 2R	504248	592248	located_end	504248
	estimated_end	592248		
CH321-57J21 3R	25416187	25504187	estimated_end	25416187
	located_end	25504187		
CH321-57K07 3R	1138275	1226275	located_end	1138275
	estimated_end	1226275		
CH321-57K09 2L	10682286	10770286	estimated_end	10682286
	located_end	10770286		
CH321-57K14 2R	16722735	16810735	located_end	16722735
	estimated_end	16810735		

CH321-57L10 3L	22643334	22731334	located_end	22643334
	estimated_end	22731334		
CH321-57L13 3L	23315806	23403806	located_end	23315806
	estimated_end	23403806		
CH321-57L15 3L	14228361	14316361	located_end	14228361
	estimated_end	14316361		
CH321-57M01 3R	12202637	12290637	located_end	12202637
	estimated_end	12290637		
CH321-57M10 3R	25046309	25134309	estimated_end	25046309
	located_end	25134309		
CH321-57M11 3R	14654532	14742532	estimated_end	14654532
	located_end	14742532		
CH321-57M12 3R	9721048	9809048	located_end	9721048
	estimated_end	9809048		
CH321-57M13 2L	10380181	10468181	located_end	10380181
	estimated_end	10468181		
CH321-57M20 X	5281087	5369087	estimated_end	5281087
	located_end	5369087		
CH321-57N03 3R	15888779	15976779	located_end	15888779
	estimated_end	15976779		
CH321-57N07 2R	271593	359593	estimated_end	271593
	located_end	359593		
CH321-57N13 X	7479643	7567643	located_end	7479643
	estimated_end	7567643		
CH321-57N16 2L	21390062	21478062	located_end	21390062
	estimated_end	21478062		
CH321-57O16 X	10254640	10342640	estimated_end	10254640
	located_end	10342640		
CH321-57O18 4	88880	176880	located_end	88880
	estimated_end	176880		
CH321-57O22 2L	21710382	21798382	estimated_end	21710382
	located_end	21798382		
CH321-57P16 3Rhet	922251	1010251	located_end	922251
	estimated_end	1010251		
CH321-57P24 3L	6839104	6927104	estimated_end	6839104
	located_end	6927104		
CH321-58A01 3R	26060304	26148304	located_end	26060304
	estimated_end	26148304		
CH321-58A02 2R	33781	121781	estimated_end	33781
	located_end	121781		
CH321-58A20 3R	27431070	27519070	located_end	27431070
	estimated_end	27519070		
CH321-58A21 2R	2766965	2854965	estimated_end	2766965
	located_end	2854965		
CH321-58B01 3R	383995	471995	estimated_end	383995
	located_end	471995		
CH321-58B08 3R	17476699	17564699	estimated_end	17476699
	located_end	17564699		
CH321-58B11 2L	4140309	4228309	estimated_end	4140309
	located_end	4228309		
CH321-58B13 4	363377	451377	estimated_end	363377
	located_end	451377		
CH321-58B14 X	4019481	4107481	estimated_end	4019481
	located_end	4107481		

CH321-58B18 XHet	110577	198577	estimated_end	110577
located_end	198577			
CH321-58B21 3R	25711442	25799442	estimated_end	25711442
located_end	25799442			
CH321-58B24 3L	1673971	1761971	estimated_end	1673971
located_end	1761971			
CH321-58C20 2RHet	1867577	1955577	located_end	1867577
estimated_end	1955577			
CH321-58C21 3R	22676854	22764854	estimated_end	22676854
located_end	22764854			
CH321-58C22 3R	9883044	9971044	located_end	9883044
estimated_end	9971044			
CH321-58D04 2R	6254754	6342754	located_end	6254754
estimated_end	6342754			
CH321-58D19 2L	13815020	13903020	located_end	13815020
estimated_end	13903020			
CH321-58D22 2R	7841173	7929173	estimated_end	7841173
located_end	7929173			
CH321-58E05 3R	9254227	9342227	estimated_end	9254227
located_end	9342227			
CH321-58E06 3L	16805128	16893128	located_end	16805128
estimated_end	16893128			
CH321-58E08 2R	10460200	10548200	located_end	10460200
estimated_end	10548200			
CH321-58F06 3L	5810288	5898288	estimated_end	5810288
located_end	5898288			
CH321-58F09 3L	2256843	2344843	estimated_end	2256843
located_end	2344843			
CH321-58F10 3L	15876271	15964271	located_end	15876271
estimated_end	15964271			
CH321-58F21 3L	5801514	5889514	located_end	5801514
estimated_end	5889514			
CH321-58G05 3LHet	742765	830765	estimated_end	742765
located_end	830765			
CH321-58G11 3R	7543781	7631781	estimated_end	7543781
located_end	7631781			
CH321-58G18 2R	8693867	8781867	located_end	8693867
estimated_end	8781867			
CH321-58G21 3R	4447136	4535136	located_end	4447136
estimated_end	4535136			
CH321-58G22 2L	20904564	20992564	located_end	20904564
estimated_end	20992564			
CH321-58H07 2R	6335807	6423807	estimated_end	6335807
located_end	6423807			
CH321-58H12 2R	3735073	3823073	estimated_end	3735073
located_end	3823073			
CH321-58H13 3LHet	238848	326848	estimated_end	238848
located_end	326848			
CH321-58H14 X	17486587	17574587	estimated_end	17486587
located_end	17574587			
CH321-58H15 2R	994485	1082485	estimated_end	994485
located_end	1082485			
CH321-58H16 2R	3168080	3256080	estimated_end	3168080
located_end	3256080			

CH321-58H17 2L	5178849	5266849	estimated_end	5178849
	located_end	5266849		
CH321-58H19 2L	15847300	15935300	estimated_end	15847300
	located_end	15935300		
CH321-58H21 2L	4289018	4377018	located_end	4289018
	estimated_end	4377018		
CH321-58H24 3R	2720224	2808224	located_end	2720224
	estimated_end	2808224		
CH321-58I08 3R	14218040	14306040	estimated_end	14218040
	located_end	14306040		
CH321-58I11 3L	18101170	18189170	located_end	18101170
	estimated_end	18189170		
CH321-58I12 3L	19629572	19717572	located_end	19629572
	estimated_end	19717572		
CH321-58I14 2L	9460595	9548595	located_end	9460595
	estimated_end	9548595		
CH321-58I16 2L	18563324	18651324	estimated_end	18563324
	located_end	18651324		
CH321-58I17 X	18600514	18688514	located_end	18600514
	estimated_end	18688514		
CH321-58I22 2L	10657029	10745029	estimated_end	10657029
	located_end	10745029		
CH321-58I23 2L	17286614	17374614	located_end	17286614
	estimated_end	17374614		
CH321-58J03 3R	4993723	5081723	estimated_end	4993723
	located_end	5081723		
CH321-58J12 3R	16795800	16883800	estimated_end	16795800
	located_end	16883800		
CH321-58J14 3R	5546279	5634279	located_end	5546279
	estimated_end	5634279		
CH321-58J15 3L	19888624	19976624	estimated_end	19888624
	located_end	19976624		
CH321-58J18 X	5679716	5767716	located_end	5679716
	estimated_end	5767716		
CH321-58J19 X	20878372	20966372	located_end	20878372
	estimated_end	20966372		
CH321-58J22 X	8360135	8448135	located_end	8360135
	estimated_end	8448135		
CH321-58K01 X	18879583	18967583	located_end	18879583
	estimated_end	18967583		
CH321-58K02 3R	9375371	9463371	estimated_end	9375371
	located_end	9463371		
CH321-58K17 3R	9411495	9499495	located_end	9411495
	estimated_end	9499495		
CH321-58K18 3L	23390905	23478905	located_end	23390905
	estimated_end	23478905		
CH321-58K20 3R	9392204	9480204	located_end	9392204
	estimated_end	9480204		
CH321-58K23 X	7375541	7463541	estimated_end	7375541
	located_end	7463541		
CH321-58L03 3R	18315097	18403097	located_end	18315097
	estimated_end	18403097		
CH321-58L05 X	18030502	18118502	located_end	18030502
	estimated_end	18118502		

CH321-58L09 2L	2398451	2486451	estimated_end	2398451
	located_end	2486451		
CH321-58L11 ArmU	9707959	9795959	estimated_end	9707959
	located_end	9795959		
CH321-58L12 3LHet	2490191	2578191	located_end	2490191
	estimated_end	2578191		
CH321-58L16 3L	18601455	18689455	located_end	18601455
	estimated_end	18689455		
CH321-58L24 3R	27787845	27875845	estimated_end	27787845
	located_end	27875845		
CH321-58M03 2L	18431240	18519240	located_end	18431240
	estimated_end	18519240		
CH321-58M05 3L	6595383	6683383	estimated_end	6595383
	located_end	6683383		
CH321-58M14 3L	5169561	5257561	estimated_end	5169561
	located_end	5257561		
CH321-58M16 3L	1411669	1499669	estimated_end	1411669
	located_end	1499669		
CH321-58M18 2R	14930509	15018509	estimated_end	14930509
	located_end	15018509		
CH321-58M20 3R	11216076	11304076	estimated_end	11216076
	located_end	11304076		
CH321-58M21 3R	21366599	21454599	located_end	21366599
	estimated_end	21454599		
CH321-58N06 4	391569	479569	estimated_end	391569
	located_end	479569		
CH321-58N13 3R	3994540	4082540	located_end	3994540
	estimated_end	4082540		
CH321-58N17 3L	15601594	15689594	estimated_end	15601594
	located_end	15689594		
CH321-58N22 2R	18682939	18770939	located_end	18682939
	estimated_end	18770939		
CH321-58O05 X	7525826	7613826	located_end	7525826
	estimated_end	7613826		
CH321-58O06 3L	16183305	16271305	estimated_end	16183305
	located_end	16271305		
CH321-58O08 3L	18449100	18537100	located_end	18449100
	estimated_end	18537100		
CH321-58O11 X	7565964	7653964	estimated_end	7565964
	located_end	7653964		
CH321-58O13 X	2494613	2582613	estimated_end	2494613
	located_end	2582613		
CH321-58O14 3L	6661777	6749777	located_end	6661777
	estimated_end	6749777		
CH321-58O20 2R	8692758	8780758	estimated_end	8692758
	located_end	8780758		
CH321-58O21 3R	10886081	10974081	estimated_end	10886081
	located_end	10974081		
CH321-58O23 3R	2497215	2585215	located_end	2497215
	estimated_end	2585215		
CH321-58O24 3R	26484496	26572496	estimated_end	26484496
	located_end	26572496		
CH321-58P02 X	9935853	10023853	located_end	9935853
	estimated_end	10023853		

CH321-58P09 2R	17245839	17333839	located_end	17245839
	estimated_end	17333839		
CH321-58P10 3L	3318956	3406956	estimated_end	3318956
	located_end	3406956		
CH321-58P22 2L	6208425	6296425	located_end	6208425
	estimated_end	6296425		
CH321-59A08 ArmU	84320	172320	estimated_end	84320
	located_end	172320	located_end	
CH321-59A10 2RHet	3094028	3182028	estimated_end	3094028
	located_end	3182028		
CH321-59B14 3R	15912015	16000015	located_end	15912015
	estimated_end	16000015		
CH321-59B17 2R	7014073	7102073	estimated_end	7014073
	located_end	7102073		
CH321-59C23 3R	2364725	2452725	estimated_end	2364725
	located_end	2452725		
CH321-59D06 X	2598151	2686151	estimated_end	2598151
	located_end	2686151		
CH321-59E09 2R	20660090	20748090	located_end	20660090
	estimated_end	20748090		
CH321-59E14 2R	8099109	8187109	located_end	8099109
	estimated_end	8187109		
CH321-59E15 3R	5456274	5544274	located_end	5456274
	estimated_end	5544274		
CH321-59E16 ArmU	9373788	9461788	estimated_end	9373788
	located_end	9461788		
CH321-59E19 3R	7171988	7259988	estimated_end	7171988
	located_end	7259988		
CH321-59E21 3L	7398547	7486547	estimated_end	7398547
	located_end	7486547		
CH321-59E24 2R	13596913	13684913	estimated_end	13596913
	located_end	13684913		
CH321-59F14 2RHet	2929104	3017104	estimated_end	2929104
	located_end	3017104		
CH321-59G05 ArmU	7634469	7722469	estimated_end	7634469
	located_end	7722469		
CH321-59G11 3R	21299528	21387528	estimated_end	21299528
	located_end	21387528		
CH321-59G13 3L	146998	234998	located_end	146998
	estimated_end	234998		
CH321-59G14 2L	19893761	19981761	estimated_end	19893761
	located_end	19981761		
CH321-59G15 X	19209363	19297363	estimated_end	19209363
	located_end	19297363		
CH321-59G18 3L	21483338	21571338	located_end	21483338
	estimated_end	21571338		
CH321-59G21 3L	6229151	6317151	estimated_end	6229151
	located_end	6317151		
CH321-59H02 2L	6342649	6430649	located_end	6342649
	estimated_end	6430649		
CH321-59H03 3R	16498538	16586538	located_end	16498538
	estimated_end	16586538		
CH321-59H09 2L	16068263	16156263	located_end	16068263
	estimated_end	16156263		

CH321-59H11 2L	9810216	9898216	estimated_end	9810216
	located_end	9898216		
CH321-59H12 2L	11261791	11349791	estimated_end	11261791
	located_end	11349791		
CH321-59H15 2R	17895917	17983917	located_end	17895917
	estimated_end	17983917		
CH321-59H16 3RHet	1141749	1229749	located_end	1141749
	estimated_end	1229749		
CH321-59H17 2RHet	944702	1032702	located_end	944702
	estimated_end	1032702		
CH321-59H19 X	5297855	5385855	located_end	5297855
	estimated_end	5385855		
CH321-59I07 3LHet	691475	779475	located_end	691475
	estimated_end	779475		
CH321-59I08 X	14390346	14478346	estimated_end	14390346
	located_end	14478346		
CH321-59I09 3L	3058031	3146031	located_end	3058031
	estimated_end	3146031		
CH321-59I12 3R	5636903	5724903	estimated_end	5636903
	located_end	5724903		
CH321-59I17 3R	11518076	11606076	estimated_end	11518076
	located_end	11606076		
CH321-59I18 3R	27784739	27872739	estimated_end	27784739
	located_end	27872739		
CH321-59I19 2R	19093999	19181999	located_end	19093999
	estimated_end	19181999		
CH321-59J15 2R	3868989	3956989	estimated_end	3868989
	located_end	3956989		
CH321-59J20 3R	4169412	4257412	estimated_end	4169412
	located_end	4257412		
CH321-59J24 3L	19330566	19418566	located_end	19330566
	estimated_end	19418566		
CH321-59K02 2L	16702503	16790503	located_end	16702503
	estimated_end	16790503		
CH321-59K03 3R	27434985	27522985	estimated_end	27434985
	located_end	27522985		
CH321-59K05 2R	18026649	18114649	estimated_end	18026649
	located_end	18114649		
CH321-59K09 3R	10743144	10831144	estimated_end	10743144
	located_end	10831144		
CH321-59K10 2L	16415037	16503037	estimated_end	16415037
	located_end	16503037		
CH321-59K12 3L	4788882	4876882	located_end	4788882
	estimated_end	4876882		
CH321-59K13 3L	12465957	12553957	located_end	12465957
	estimated_end	12553957		
CH321-59K14 X	1104884	1192884	estimated_end	1104884
	located_end	1192884		
CH321-59K16 3L	16836319	16924319	located_end	16836319
	estimated_end	16924319		
CH321-59K18 3R	11321265	11409265	estimated_end	11321265
	located_end	11409265		
CH321-59K21 2L	13938842	14026842	estimated_end	13938842
	located_end	14026842		

CH321-59K23 3L	12200546	12288546	located_end	12200546
	estimated_end	12288546		
CH321-59L09 2R	14910656	14998656	located_end	14910656
	estimated_end	14998656		
CH321-59L11 3R	21947927	22035927	estimated_end	21947927
	located_end	22035927		
CH321-59L13 2R	14748315	14836315	estimated_end	14748315
	located_end	14836315		
CH321-59L15 X	13514832	13602832	located_end	13514832
	estimated_end	13602832		
CH321-59L18 3L	17454974	17542974	estimated_end	17454974
	located_end	17542974		
CH321-59L22 3R	16395598	16483598	located_end	16395598
	estimated_end	16483598		
CH321-59M11 X	8685839	8773839	estimated_end	8685839
	located_end	8773839		
CH321-59M13 3R	6877173	6965173	located_end	6877173
	estimated_end	6965173		
CH321-59M17 3R	16019078	16107078	located_end	16019078
	estimated_end	16107078		
CH321-59M20 3R	24285880	24373880	located_end	24285880
	estimated_end	24373880		
CH321-59M23 3L	21135763	21223763	estimated_end	21135763
	located_end	21223763		
CH321-59N13 3RHet	148800	236800	estimated_end	148800
	located_end	236800		
CH321-59N23 2RHet	71810	159810	located_end	71810
	estimated_end	159810		
CH321-59O10 2RHet	2254809	2342809	located_end	2254809
	estimated_end	2342809		
CH321-59O18 3R	2877921	2965921	estimated_end	2877921
	located_end	2965921		
CH321-59O19 3L	1561388	1649388	located_end	1561388
	estimated_end	1649388		
CH321-59O20 3R	21119779	21207779	estimated_end	21119779
	located_end	21207779		
CH321-59O23 3R	14401121	14489121	estimated_end	14401121
	located_end	14489121		
CH321-59P13 2R	14185181	14273181	located_end	14185181
	estimated_end	14273181		
CH321-59P15 3R	22095071	22183071	located_end	22095071
	estimated_end	22183071		
CH321-59P21 X	20057897	20145897	estimated_end	20057897
	located_end	20145897		
CH321-59P23 3L	16844368	16932368	located_end	16844368
	estimated_end	16932368		
CH321-60B03 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-60B06 ArmU	3657981	3745981	estimated_end	3657981
	located_end	3745981		
CH321-60B12 2L	20369622	20457622	located_end	20369622
	estimated_end	20457622		
CH321-60B13 X	19425601	19513601	located_end	19425601
	estimated_end	19513601		

CH321-60C08 3R	94945	182945	located_end 94945	estimated_end 182945
CH321-60C10 3R	24561767	24649767	estimated_end 24561767	located_end 24649767
CH321-60C12 3R	21382639	21470639	located_end 21382639	estimated_end 21470639
CH321-60C17 3L	12957160	13045160	estimated_end 12957160	located_end 13045160
CH321-60C20 2R	17469623	17557623	located_end 17469623	estimated_end 17557623
CH321-60C21 3R	4411024	4499024	estimated_end 4411024	located_end 4499024
CH321-60D10 2L	1994696	2082696	estimated_end 1994696	located_end 2082696
CH321-60D13 3R	6761265	6849265	located_end 6761265	estimated_end 6849265
CH321-60D16 2R	20730596	20818596	estimated_end 20730596	located_end 20818596
CH321-60E05 2L	1353015	1441015	estimated_end 1353015	located_end 1441015
CH321-60E08 3L	21374121	21462121	estimated_end 21374121	located_end 21462121
CH321-60E12 3R	21202186	21290186	located_end 21202186	estimated_end 21290186
CH321-60E18 2R	9645489	9733489	located_end 9645489	estimated_end 9733489
CH321-60E22 X	16960868	17048868	estimated_end 16960868	located_end 17048868
CH321-60E23 X	16556077	16644077	estimated_end 16556077	located_end 16644077
CH321-60F05 3L	2172264	2260264	estimated_end 2172264	located_end 2260264
CH321-60F07 3R	13544867	13632867	located_end 13544867	estimated_end 13632867
CH321-60F08 3R	24716214	24804214	located_end 24716214	estimated_end 24804214
CH321-60F09 3L	1678854	1766854	located_end 1678854	estimated_end 1766854
CH321-60F11 X	17096317	17184317	estimated_end 17096317	located_end 17184317
CH321-60F12 3R	2901914	2989914	located_end 2901914	estimated_end 2989914
CH321-60F14 3R	6476974	6564974	estimated_end 6476974	located_end 6564974
CH321-60F20 2L	2856532	2944532	located_end 2856532	estimated_end 2944532
CH321-60F21 3L	19476390	19564390	located_end 19476390	estimated_end 19564390
CH321-60F22 X	21866981	21954981	located_end 21866981	estimated_end 21954981
CH321-60F24 2R	9887401	9975401	located_end 9887401	estimated_end 9975401
CH321-60G06 2L	13551845	13639845	estimated_end 13551845	located_end 13639845

CH321-60G08 2L	7091121	7179121	estimated_end	7091121
	located_end	7179121		
CH321-60G11 X	6299153	6387153	estimated_end	6299153
	located_end	6387153		
CH321-60G20 3R	7659641	7747641	estimated_end	7659641
	located_end	7747641		
CH321-60G22 2L	14966311	15054311	estimated_end	14966311
	located_end	15054311		
CH321-60H07 X	7517375	7605375	located_end	7517375
	estimated_end	7605375		
CH321-60H09 3L	11283891	11371891	estimated_end	11283891
	located_end	11371891		
CH321-60H10 3R	10685110	10773110	located_end	10685110
	estimated_end	10773110		
CH321-60H11 X	11865729	11953729	located_end	11865729
	estimated_end	11953729		
CH321-60H15 2R	17895784	17983784	located_end	17895784
	estimated_end	17983784		
CH321-60H19 2L	19312067	19400067	located_end	19312067
	estimated_end	19400067		
CH321-60H24 2R	4641530	4729530	located_end	4641530
	estimated_end	4729530		
CH321-60I03 ArmU	8941735	9029735	located_end	8941735
	estimated_end	9029735		
CH321-60I04 3R	26182268	26270268	estimated_end	26182268
	located_end	26270268		
CH321-60I05 3R	4246280	4334280	located_end	4246280
	estimated_end	4334280		
CH321-60I07 3R	6883315	6971315	located_end	6883315
	estimated_end	6971315		
CH321-60I09 3L	3494342	3582342	located_end	3494342
	estimated_end	3582342		
CH321-60I11 X	7675296	7763296	located_end	7675296
	estimated_end	7763296		
CH321-60J07 2R	8924461	9012461	estimated_end	8924461
	located_end	9012461		
CH321-60J08 X	10848783	10936783	located_end	10848783
	estimated_end	10936783		
CH321-60J13 3R	5532873	5620873	estimated_end	5532873
	located_end	5620873		
CH321-60J18 3L	13660248	13748248	estimated_end	13660248
	located_end	13748248		
CH321-60J24 2L	2691517	2779517	estimated_end	2691517
	located_end	2779517		
CH321-60K01 ArmU	8321717	8409717	located_end	8321717
	estimated_end	8409717		
CH321-60K13 3L	20656339	20744339	estimated_end	20656339
	located_end	20744339		
CH321-60K23 3R	27477307	27565307	located_end	27477307
	estimated_end	27565307		
CH321-60L02 2R	6321709	6409709	located_end	6321709
	estimated_end	6409709		
CH321-60L04 3R	18358968	18446968	located_end	18358968
	estimated_end	18446968		

CH321-60L08 X	6542624	6630624	located_end 6542624
	estimated_end	6630624	
CH321-60L12 3R	1775943	1863943	estimated_end 1775943
	located_end	1863943	
CH321-60L13 3R	20369248	20457248	estimated_end 20369248
	located_end	20457248	
CH321-60M05 3L	4786142	4874142	estimated_end 4786142
	located_end	4874142	
CH321-60M06 X	2992333	3080333	located_end 2992333
	estimated_end	3080333	
CH321-60M09 2L	10066556	10154556	estimated_end 10066556
	located_end	10154556	
CH321-60M11 3R	11510808	11598808	estimated_end 11510808
	located_end	11598808	
CH321-60M14 2R	14543980	14631980	estimated_end 14543980
	located_end	14631980	
CH321-60M15 2L	5466060	5554060	located_end 5466060
	estimated_end	5554060	
CH321-60M18 3R	11699062	11787062	located_end 11699062
	estimated_end	11787062	
CH321-60M21 X	5422981	5510981	estimated_end 5422981
	located_end	5510981	
CH321-60M23 2R	2054140	2142140	located_end 2054140
	estimated_end	2142140	
CH321-60N04 X	8599555	8687555	estimated_end 8599555
	located_end	8687555	
CH321-60N09 3R	22578112	22666112	estimated_end 22578112
	located_end	22666112	
CH321-60N10 2L	18200894	18288894	located_end 18200894
	estimated_end	18288894	
CH321-60N12 3L	6997206	7085206	located_end 6997206
	estimated_end	7085206	
CH321-60N14 2L	18673109	18761109	located_end 18673109
	estimated_end	18761109	
CH321-60N17 2R	5830307	5918307	estimated_end 5830307
	located_end	5918307	
CH321-60N20 3L	7758666	7846666	estimated_end 7758666
	located_end	7846666	
CH321-60N24 3L	2645770	2733770	located_end 2645770
	estimated_end	2733770	
CH321-60O06 2R	7510466	7598466	located_end 7510466
	estimated_end	7598466	
CH321-60O12 X	8234746	8322746	located_end 8234746
	estimated_end	8322746	
CH321-60O19 3RHet	28601 116601		located_end 28601 estimated_end 116601
CH321-60O20 2L	4247258	4335258	located_end 4247258
	estimated_end	4335258	
CH321-60P22 ArmU	7628224	7716224	estimated_end 7628224
	located_end	7716224	
CH321-61A06 2R	8559541	8647541	located_end 8559541
	estimated_end	8647541	
CH321-61B15 2L	17145074	17233074	estimated_end 17145074
	located_end	17233074	

CH321-61C07 3L	1973814	2061814	located_end	1973814
	estimated_end	2061814		
CH321-61C08 3R	16526543	16614543	located_end	16526543
	estimated_end	16614543		
CH321-61C19 3R	9143779	9231779	estimated_end	9143779
	located_end	9231779		
CH321-61C21 3R	9253123	9341123	estimated_end	9253123
	located_end	9341123		
CH321-61C22 2R	10261939	10349939	located_end	10261939
	estimated_end	10349939		
CH321-61D02 ArmU	4699134	4787134	located_end	4699134
	estimated_end	4787134		
CH321-61D09 3L	15014506	15102506	located_end	15014506
	estimated_end	15102506		
CH321-61D10 3L	20776360	20864360	estimated_end	20776360
	located_end	20864360		
CH321-61D13 X	75321 163321		estimated_end	75321 located_end
	163321			
CH321-61D14 2R	11287042	11375042	located_end	11287042
	estimated_end	11375042		
CH321-61D15 3R	5661576	5749576	estimated_end	5661576
	located_end	5749576		
CH321-61D16 3L	23999047	24087047	located_end	23999047
	estimated_end	24087047		
CH321-61D18 ArmU	780373	868373	estimated_end	780373
	located_end	868373		
CH321-61D19 2L	13863625	13951625	estimated_end	13863625
	located_end	13951625		
CH321-61D21 3R	11079911	11167911	located_end	11079911
	estimated_end	11167911		
CH321-61D23 X	22207801	22295801	located_end	22207801
	estimated_end	22295801		
CH321-61D24 ArmU	3068775	3156775	located_end	3068775
	estimated_end	3156775		
CH321-61E08 2L	8998824	9086824	estimated_end	8998824
	located_end	9086824		
CH321-61E14 X	16997011	17085011	located_end	16997011
	estimated_end	17085011		
CH321-61E19 X	3143822	3231822	located_end	3143822
	estimated_end	3231822		
CH321-61E20 3L	13229384	13317384	estimated_end	13229384
	located_end	13317384		
CH321-61E21 X	7994909	8082909	estimated_end	7994909
	located_end	8082909		
CH321-61E22 2L	3602003	3690003	estimated_end	3602003
	located_end	3690003		
CH321-61E23 3R	20232339	20320339	estimated_end	20232339
	located_end	20320339		
CH321-61F10 3R	18651045	18739045	located_end	18651045
	estimated_end	18739045		
CH321-61F12 2L	4031816	4119816	located_end	4031816
	estimated_end	4119816		
CH321-61F15 2L	15226480	15314480	located_end	15226480
	estimated_end	15314480		

CH321-61F16 3R	12075427	12163427	estimated_end	12075427
	located_end	12163427		
CH321-61F19 2L	18445284	18533284	estimated_end	18445284
	located_end	18533284		
CH321-61F22 3R	25426996	25514996	located_end	25426996
	estimated_end	25514996		
CH321-61G08 2L	7387413	7475413	located_end	7387413
	estimated_end	7475413		
CH321-61G12 3L	3024407	3112407	estimated_end	3024407
	located_end	3112407		
CH321-61G16 3L	7919888	8007888	located_end	7919888
	estimated_end	8007888		
CH321-61G19 2R	14772235	14860235	located_end	14772235
	estimated_end	14860235		
CH321-61G20 3L	19303404	19391404	located_end	19303404
	estimated_end	19391404		
CH321-61G21 3R	907707	995707	located_end	907707
	estimated_end	995707		
CH321-61G24 3R	17263840	17351840	estimated_end	17263840
	located_end	17351840		
CH321-61H10 2R	20959478	21047478	located_end	20959478
	estimated_end	21047478		
CH321-61H12 X	13333062	13421062	estimated_end	13333062
	located_end	13421062		
CH321-61H13 2R	11459677	11547677	located_end	11459677
	estimated_end	11547677		
CH321-61H14 X	2640528	2728528	located_end	2640528
	estimated_end	2728528		
CH321-61H15 3R	20718482	20806482	estimated_end	20718482
	located_end	20806482		
CH321-61H16 4	695373	783373	estimated_end	695373
	located_end	783373		
CH321-61H17 3R	23148229	23236229	located_end	23148229
	estimated_end	23236229		
CH321-61H18 3L	5794916	5882916	estimated_end	5794916
	located_end	5882916		
CH321-61H19 X	2161819	2249819	located_end	2161819
	estimated_end	2249819		
CH321-61H20 2L	3958032	4046032	estimated_end	3958032
	located_end	4046032		
CH321-61I09 X	17076979	17164979	located_end	17076979
	estimated_end	17164979		
CH321-61I10 2L	10897651	10985651	located_end	10897651
	estimated_end	10985651		
CH321-61I13 2L	22036688	22124688	located_end	22036688
	estimated_end	22124688		
CH321-61I14 X	2357929	2445929	located_end	2357929
	estimated_end	2445929		
CH321-61I15 X	9308018	9396018	estimated_end	9308018
	located_end	9396018		
CH321-61I17 2R	17083903	17171903	estimated_end	17083903
	located_end	17171903		
CH321-61I19 X	9373186	9461186	located_end	9373186
	estimated_end	9461186		

CH321-61I20 3L	3198578	3286578	estimated_end	3198578
	located_end	3286578		
CH321-61I24 3R	2625915	2713915	estimated_end	2625915
	located_end	2713915		
CH321-61J09 2L	14022456	14110456	estimated_end	14022456
	located_end	14110456		
CH321-61J14 X	20756955	20844955	located_end	20756955
	estimated_end	20844955		
CH321-61J15 2L	6767732	6855732	located_end	6767732
	estimated_end	6855732		
CH321-61J16 3L	22136720	22224720	estimated_end	22136720
	located_end	22224720		
CH321-61J17 3R	10153822	10241822	located_end	10153822
	estimated_end	10241822		
CH321-61J20 2L	19016188	19104188	located_end	19016188
	estimated_end	19104188		
CH321-61J23 X	18867314	18955314	located_end	18867314
	estimated_end	18955314		
CH321-61K12 3R	2932030	3020030	estimated_end	2932030
	located_end	3020030		
CH321-61K13 2RHet	409387	497387	estimated_end	409387
	located_end	497387		
CH321-61K14 2L	17720942	17808942	located_end	17720942
	estimated_end	17808942		
CH321-61K15 3R	25908319	25996319	estimated_end	25908319
	located_end	25996319		
CH321-61K16 3L	3807134	3895134	located_end	3807134
	estimated_end	3895134		
CH321-61K18 3R	26166831	26254831	estimated_end	26166831
	located_end	26254831		
CH321-61K19 3L	17801014	17889014	located_end	17801014
	estimated_end	17889014		
CH321-61K23 3L	22854693	22942693	located_end	22854693
	estimated_end	22942693		
CH321-61L11 3L	5373474	5461474	located_end	5373474
	estimated_end	5461474		
CH321-61L12 3R	1337659	1425659	located_end	1337659
	estimated_end	1425659		
CH321-61L15 X	1391092	1479092	estimated_end	1391092
	located_end	1479092		
CH321-61L18 3R	15324927	15412927	located_end	15324927
	estimated_end	15412927		
CH321-61L22 3L	22085908	22173908	estimated_end	22085908
	located_end	22173908		
CH321-61L23 3L	16027638	16115638	located_end	16027638
	estimated_end	16115638		
CH321-61L24 3L	167668	255668	estimated_end	167668
	located_end	255668		
CH321-61M07 3R	21955133	22043133	located_end	21955133
	estimated_end	22043133		
CH321-61M12 2L	12041948	12129948	estimated_end	12041948
	located_end	12129948		
CH321-61M13 3L	6798291	6886291	located_end	6798291
	estimated_end	6886291		

CH321-61M17 3L	1524126	1612126	located_end	1524126
	estimated_end	1612126		
CH321-61M18 2R	4674188	4762188	located_end	4674188
	estimated_end	4762188		
CH321-61M24 3L	19745808	19833808	estimated_end	19745808
	located_end	19833808		
CH321-61N08 3L	6724730	6812730	estimated_end	6724730
	located_end	6812730		
CH321-61N13 2R	2707849	2795849	located_end	2707849
	estimated_end	2795849		
CH321-61N16 3R	10841449	10929449	located_end	10841449
	estimated_end	10929449		
CH321-61N23 X	826714	914714	estimated_end	826714
	located_end	914714		
CH321-61O03 3R	21474719	21562719	located_end	21474719
	estimated_end	21562719		
CH321-61O07 X	859991	947991	located_end	859991
	estimated_end	947991		
CH321-61O11 3L	15988132	16076132	located_end	15988132
	estimated_end	16076132		
CH321-61O14 3LHet	2086816	2174816	located_end	2086816
	estimated_end	2174816		
CH321-61O15 4	295002	383002	estimated_end	295002
	located_end	383002		
CH321-61O18 3L	15764436	15852436	estimated_end	15764436
	located_end	15852436		
CH321-61O19 3R	22965001	23053001	estimated_end	22965001
	located_end	23053001		
CH321-61O20 2R	18502665	18590665	located_end	18502665
	estimated_end	18590665		
CH321-61O23 3L	23507282	23595282	estimated_end	23507282
	located_end	23595282		
CH321-61P18 2L	18350691	18438691	located_end	18350691
	estimated_end	18438691		
CH321-61P19 2R	17762016	17850016	located_end	17762016
	estimated_end	17850016		
CH321-61P20 3R	20599806	20687806	located_end	20599806
	estimated_end	20687806		
CH321-61P22 3R	18778596	18866596	estimated_end	18778596
	located_end	18866596		
CH321-61P24 2R	17263584	17351584	located_end	17263584
	estimated_end	17351584		
CH321-62A01 3R	5712560	5800560	estimated_end	5712560
	located_end	5800560		
CH321-62A06 2R	17868877	17956877	located_end	17868877
	estimated_end	17956877		
CH321-62A10 ArmU	1501007	1589007	estimated_end	1501007
	located_end	1589007		
CH321-62A13 3L	18033253	18121253	estimated_end	18033253
	located_end	18121253		
CH321-62A17 2L	22630742	22718742	located_end	22630742
	estimated_end	22718742		
CH321-62A21 2R	14327659	14415659	located_end	14327659
	estimated_end	14415659		

CH321-62A24 2L	18598514	18686514	estimated_end	18598514
	located_end	18686514		
CH321-62B09 2L	21935819	22023819	estimated_end	21935819
	located_end	22023819		
CH321-62B10 3R	2068402	2156402	estimated_end	2068402
	located_end	2156402		
CH321-62B13 3R	21271256	21359256	estimated_end	21271256
	located_end	21359256		
CH321-62B15 X	16754975	16842975	estimated_end	16754975
	located_end	16842975		
CH321-62B22 X	22118426	22206426	estimated_end	22118426
	located_end	22206426		
CH321-62C04 2L	16840142	16928142	located_end	16840142
	estimated_end	16928142		
CH321-62C06 2L	9948366	10036366	located_end	9948366
	estimated_end	10036366		
CH321-62C10 3L	4427898	4515898	estimated_end	4427898
	located_end	4515898		
CH321-62C11 X	21670599	21758599	located_end	21670599
	estimated_end	21758599		
CH321-62C12 2L	13915711	14003711	located_end	13915711
	estimated_end	14003711		
CH321-62C14 2R	14203224	14291224	estimated_end	14203224
	located_end	14291224		
CH321-62C15 3R	7915192	8003192	located_end	7915192
	estimated_end	8003192		
CH321-62C17 3R	27238553	27326553	located_end	27238553
	estimated_end	27326553		
CH321-62C21 2R	12464859	12552859	estimated_end	12464859
	located_end	12552859		
CH321-62C24 X	3458269	3546269	located_end	3458269
	estimated_end	3546269		
CH321-62D04 2RHet	1621822	1709822	estimated_end	1621822
	located_end	1709822		
CH321-62D06 3R	8232830	8320830	located_end	8232830
	estimated_end	8320830		
CH321-62D07 3R	3618783	3706783	located_end	3618783
	estimated_end	3706783		
CH321-62D09 3L	16776117	16864117	estimated_end	16776117
	located_end	16864117		
CH321-62D18 3L	10400809	10488809	estimated_end	10400809
	located_end	10488809		
CH321-62D23 2RHet	356418	444418	estimated_end	356418
	located_end	444418		
CH321-62D24 X	4155472	4243472	estimated_end	4155472
	located_end	4243472		
CH321-62E05 X	117412	205412	estimated_end	117412
	located_end	205412		
CH321-62E06 2L	16372976	16460976	located_end	16372976
	estimated_end	16460976		
CH321-62E07 3R	9756975	9844975	located_end	9756975
	estimated_end	9844975		
CH321-62E09 X	192429	280429	estimated_end	192429
	located_end	280429		

CH321-62E17 3R	22170254	22258254	estimated_end	22170254
	located_end	22258254		
CH321-62E18 2L	10042605	10130605	located_end	10042605
	estimated_end	10130605		
CH321-62E22 2L	18377160	18465160	located_end	18377160
	estimated_end	18465160		
CH321-62E23 X	20681598	20769598	estimated_end	20681598
	located_end	20769598		
CH321-62F03 X	15515601	15603601	estimated_end	15515601
	located_end	15603601		
CH321-62F04 3R	8515814	8603814	located_end	8515814
	estimated_end	8603814		
CH321-62F08 3R	6849254	6937254	located_end	6849254
	estimated_end	6937254		
CH321-62F11 X	12674348	12762348	estimated_end	12674348
	located_end	12762348		
CH321-62F19 2R	17753554	17841554	located_end	17753554
	estimated_end	17841554		
CH321-62F20 3R	12981672	13069672	located_end	12981672
	estimated_end	13069672		
CH321-62F24 2L	18093740	18181740	estimated_end	18093740
	located_end	18181740		
CH321-62G02 3R	484347	572347	estimated_end	484347
	located_end	572347		
CH321-62G04 3R	77799	165799	estimated_end	77799
	located_end	165799	located_end	165799
CH321-62G05 3L	21500635	21588635	estimated_end	21500635
	located_end	21588635		
CH321-62G07 3L	12106645	12194645	located_end	12106645
	estimated_end	12194645		
CH321-62G09 2L	4368793	4456793	located_end	4368793
	estimated_end	4456793		
CH321-62G10 2L	8450601	8538601	located_end	8450601
	estimated_end	8538601		
CH321-62G14 2L	5518147	5606147	estimated_end	5518147
	located_end	5606147		
CH321-62G19 3LHet	1091861	1179861	estimated_end	1091861
	located_end	1179861		
CH321-62G21 3L	7262574	7350574	located_end	7262574
	estimated_end	7350574		
CH321-62G22 X	3162232	3250232	located_end	3162232
	estimated_end	3250232		
CH321-62H03 2L	7867014	7955014	estimated_end	7867014
	located_end	7955014		
CH321-62H04 3L	3906091	3994091	located_end	3906091
	estimated_end	3994091		
CH321-62H20 2L	22914995	23002995	located_end	22914995
	estimated_end	23002995		
CH321-62H23 3R	9542775	9630775	estimated_end	9542775
	located_end	9630775		
CH321-62I01 X	2602702	2690702	estimated_end	2602702
	located_end	2690702		
CH321-62I07 X	6809849	6897849	located_end	6809849
	estimated_end	6897849		

CH321-62I13 3L	17638226	17726226	located_end	17638226
	estimated_end	17726226		
CH321-62I14 3R	3591891	3679891	estimated_end	3591891
	located_end	3679891		
CH321-62I16 2L	8565348	8653348	located_end	8565348
	estimated_end	8653348		
CH321-62I18 3L	20420364	20508364	located_end	20420364
	estimated_end	20508364		
CH321-62I20 2R	10677974	10765974	estimated_end	10677974
	located_end	10765974		
CH321-62J03 2L	15147643	15235643	estimated_end	15147643
	located_end	15235643		
CH321-62J07 X	17336314	17424314	located_end	17336314
	estimated_end	17424314		
CH321-62J09 2L	12192975	12280975	estimated_end	12192975
	located_end	12280975		
CH321-62J13 3L	15336970	15424970	estimated_end	15336970
	located_end	15424970		
CH321-62J14 2L	14160750	14248750	estimated_end	14160750
	located_end	14248750		
CH321-62J18 3L	19035016	19123016	located_end	19035016
	estimated_end	19123016		
CH321-62K04 3RHet	2116163	2204163	estimated_end	2116163
	located_end	2204163		
CH321-62K07 3L	16647643	16735643	located_end	16647643
	estimated_end	16735643		
CH321-62K16 2R	413296	501296	estimated_end	413296
	located_end	501296		
CH321-62K17 X	4677755	4765755	estimated_end	4677755
	located_end	4765755		
CH321-62L03 2L	16776424	16864424	located_end	16776424
	estimated_end	16864424		
CH321-62L09 X	12154983	12242983	located_end	12154983
	estimated_end	12242983		
CH321-62L12 3L	8812187	8900187	located_end	8812187
	estimated_end	8900187		
CH321-62L16 X	4401652	4489652	estimated_end	4401652
	located_end	4489652		
CH321-62M03 2R	14313364	14401364	estimated_end	14313364
	located_end	14401364		
CH321-62M05 X	21040243	21128243	estimated_end	21040243
	located_end	21128243		
CH321-62M09 2R	9122285	9210285	located_end	9122285
	estimated_end	9210285		
CH321-62M20 3L	10888003	10976003	estimated_end	10888003
	located_end	10976003		
CH321-62M22 3L	19937726	20025726	located_end	19937726
	estimated_end	20025726		
CH321-62N03 3L	18326190	18414190	estimated_end	18326190
	located_end	18414190		
CH321-62N13 3L	1363067	1451067	located_end	1363067
	estimated_end	1451067		
CH321-62N19 3R	5671095	5759095	located_end	5671095
	estimated_end	5759095		

CH321-62N20 3R	79503 167503		located_end 79503	estimated_end 167503
CH321-62N21 3L	17888878	17976878	located_end 17888878	estimated_end 17976878
CH321-62N22 3L	15526708	15614708	located_end 15614708	estimated_end 15526708
CH321-62N23 3L	17277154	17365154	located_end 17277154	estimated_end 17365154
CH321-62O05 3L	22736179	22824179	located_end 22736179	estimated_end 22824179
CH321-62O07 3R	9134249	9222249	located_end 9222249	estimated_end 9134249
CH321-62O08 X	11309130	11397130	located_end 11309130	estimated_end 11397130
CH321-62O10 2R	17509764	17597764	located_end 17509764	estimated_end 17597764
CH321-62O13 3R	16353835	16441835	located_end 16441835	estimated_end 16353835
CH321-62O15 3R	8379175	8467175	located_end 8379175	estimated_end 8467175
CH321-62O18 2R	17855537	17943537	located_end 17855537	estimated_end 17943537
CH321-62O22 2L	9141527	9229527	located_end 9141527	estimated_end 9229527
CH321-62O23 3L	11894153	11982153	located_end 11982153	estimated_end 11894153
CH321-62P09 3R	9414052	9502052	located_end 9502052	estimated_end 9414052
CH321-62P23 2L	8007790	8095790	located_end 8095790	estimated_end 8007790
CH321-62P24 3R	20579350	20667350	located_end 20667350	estimated_end 20579350
CH321-63A01 3L	15118686	15206686	located_end 15206686	estimated_end 15118686
CH321-63B08 ArmU	34544 122544		located_end 122544	estimated_end 34544
CH321-63B09 3R	10816449	10904449	located_end 10904449	estimated_end 10816449
CH321-63B13 2R	2564321	2652321	located_end 2564321	estimated_end 2652321
CH321-63B16 2R	17602386	17690386	located_end 17690386	estimated_end 17602386
CH321-63B18 3R	1575405	1663405	located_end 1663405	estimated_end 1575405
CH321-63B20 2R	8231801	8319801	located_end 8231801	estimated_end 8319801
CH321-63B22 2R	14065419	14153419	located_end 14065419	estimated_end 14153419
CH321-63B23 3R	15024294	15112294	located_end 15112294	estimated_end 15024294
CH321-63C04 3L	19823878	19911878	located_end 19911878	estimated_end 19823878
CH321-63C07 2R	7020693	7108693	located_end 7108693	estimated_end 7020693

CH321-63D10 2R	18198912	18286912	estimated_end	18198912
	located_end	18286912		
CH321-63D15 3R	18850070	18938070	estimated_end	18850070
	located_end	18938070		
CH321-63D16 3L	10598661	10686661	estimated_end	10598661
	located_end	10686661		
CH321-63D19 2L	21335184	21423184	located_end	21335184
	estimated_end	21423184		
CH321-63D22 2R	5395794	5483794	estimated_end	5395794
	located_end	5483794		
CH321-63D24 2R	19937003	20025003	estimated_end	19937003
	located_end	20025003		
CH321-63E02 X	21032806	21120806	estimated_end	21032806
	located_end	21120806		
CH321-63E10 4	226659	314659	estimated_end	226659
	located_end	314659		
CH321-63E11 2R	11620509	11708509	estimated_end	11620509
	located_end	11708509		
CH321-63E15 3R	27528315	27616315	located_end	27528315
	estimated_end	27616315		
CH321-63E18 3R	16746540	16834540	located_end	16746540
	estimated_end	16834540		
CH321-63E19 X	6260458	6348458	estimated_end	6260458
	located_end	6348458		
CH321-63E22 2RHet	916587	1004587	estimated_end	916587
	located_end	1004587		
CH321-63F03 3L	14569708	14657708	estimated_end	14569708
	located_end	14657708		
CH321-63F05 3R	5857649	5945649	estimated_end	5857649
	located_end	5945649		
CH321-63F10 X	946325	1034325	located_end	946325
	estimated_end	1034325		
CH321-63F14 3R	6505392	6593392	estimated_end	6505392
	located_end	6593392		
CH321-63F15 2R	15154692	15242692	estimated_end	15154692
	located_end	15242692		
CH321-63F16 3R	22099163	22187163	estimated_end	22099163
	located_end	22187163		
CH321-63F19 3R	10186896	10274896	located_end	10186896
	estimated_end	10274896		
CH321-63F21 3R	11455819	11543819	located_end	11455819
	estimated_end	11543819		
CH321-63G10 ArmU	9794389	9882389	estimated_end	9794389
	located_end	9882389		
CH321-63G13 2R	17354522	17442522	estimated_end	17354522
	located_end	17442522		
CH321-63G17 4	1071580	1159580	located_end	1071580
	estimated_end	1159580		
CH321-63G18 2R	3889881	3977881	located_end	3889881
	estimated_end	3977881		
CH321-63G19 3R	25723401	25811401	located_end	25723401
	estimated_end	25811401		
CH321-63G20 2L	17622541	17710541	located_end	17622541
	estimated_end	17710541		

CH321-63H07 2L	18835293	18923293	located_end	18835293
	estimated_end	18923293		
CH321-63H09 3L	13661740	13749740	located_end	13661740
	estimated_end	13749740		
CH321-63H10 3R	6523490	6611490	estimated_end	6523490
	located_end	6611490		
CH321-63H11 X	18643235	18731235	located_end	18643235
	estimated_end	18731235		
CH321-63H12 ArmU	9831193	9919193	located_end	9831193
	estimated_end	9919193		
CH321-63H14 X	2575498	2663498	estimated_end	2575498
	located_end	2663498		
CH321-63H15 3R	12540617	12628617	estimated_end	12540617
	located_end	12628617		
CH321-63H17 3R	26693262	26781262	estimated_end	26693262
	located_end	26781262		
CH321-63H20 2R	7890923	7978923	estimated_end	7890923
	located_end	7978923		
CH321-63H22 X	17846085	17934085	estimated_end	17846085
	located_end	17934085		
CH321-63H23 2R	14543504	14631504	located_end	14543504
	estimated_end	14631504		
CH321-63H24 2L	17415479	17503479	estimated_end	17415479
	located_end	17503479		
CH321-63I10 3L	16127123	16215123	estimated_end	16127123
	located_end	16215123		
CH321-63I12 2R	17618469	17706469	located_end	17618469
	estimated_end	17706469		
CH321-63I16 3L	10449604	10537604	estimated_end	10449604
	located_end	10537604		
CH321-63J05 X	12006142	12094142	located_end	12006142
	estimated_end	12094142		
CH321-63J10 2L	20817287	20905287	located_end	20817287
	estimated_end	20905287		
CH321-63J13 2R	16777697	16865697	located_end	16777697
	estimated_end	16865697		
CH321-63J14 2R	286627	374627	located_end	286627
	estimated_end	374627		
CH321-63J15 2L	3279678	3367678	estimated_end	3279678
	located_end	3367678		
CH321-63J16 3LHet	2458621	2546621	estimated_end	2458621
	located_end	2546621		
CH321-63J17 3R	7485524	7573524	estimated_end	7485524
	located_end	7573524		
CH321-63J21 2L	14952768	15040768	located_end	14952768
	estimated_end	15040768		
CH321-63K02 3RHet	1222428	1310428	located_end	1222428
	estimated_end	1310428		
CH321-63K10 3R	12381778	12469778	located_end	12381778
	estimated_end	12469778		
CH321-63K16 3RHet	148651	236651	estimated_end	148651
	located_end	236651		
CH321-63K21 3R	8736758	8824758	located_end	8736758
	estimated_end	8824758		

CH321-63K24 3R	12101942	12189942	located_end	12101942
	estimated_end	12189942		
CH321-63L06 ArmU	6679545	6767545	located_end	6679545
	estimated_end	6767545		
CH321-63L07 2R	14920695	15008695	estimated_end	14920695
	located_end	15008695		
CH321-63L12 3R	3863343	3951343	estimated_end	3863343
	located_end	3951343		
CH321-63L16 3L	14249827	14337827	located_end	14249827
	estimated_end	14337827		
CH321-63L19 X	2140534	2228534	estimated_end	2140534
	located_end	2228534		
CH321-63L21 3R	24945194	25033194	estimated_end	24945194
	located_end	25033194		
CH321-63L23 2R	11506366	11594366	located_end	11506366
	estimated_end	11594366		
CH321-63M09 ArmU	5701644	5789644	located_end	5701644
	estimated_end	5789644		
CH321-63M10 2RHet	2160260	2248260	located_end	2160260
	estimated_end	2248260		
CH321-63M11 3L	11126089	11214089	estimated_end	11126089
	located_end	11214089		
CH321-63M14 3R	13242892	13330892	located_end	13242892
	estimated_end	13330892		
CH321-63M17 2R	11497965	11585965	located_end	11497965
	estimated_end	11585965		
CH321-63M24 3R	18068055	18156055	estimated_end	18068055
	located_end	18156055		
CH321-63N09 3R	23893959	23981959	estimated_end	23893959
	located_end	23981959		
CH321-63N10 3L	12177821	12265821	estimated_end	12177821
	located_end	12265821		
CH321-63N13 X	11730661	11818661	located_end	11730661
	estimated_end	11818661		
CH321-63N15 3R	6356524	6444524	located_end	6356524
	estimated_end	6444524		
CH321-63N17 3L	13461643	13549643	located_end	13461643
	estimated_end	13549643		
CH321-63P15 2RHet	1792647	1880647	estimated_end	1792647
	located_end	1880647		
CH321-63P23 3L	771096	859096	located_end	771096
	estimated_end	859096		
CH321-64A01 2L	21613284	21701284	located_end	21613284
	estimated_end	21701284		
CH321-64A07 3L	22590216	22678216	estimated_end	22590216
	located_end	22678216		
CH321-64A21 3R	18492491	18580491	located_end	18492491
	estimated_end	18580491		
CH321-64B10 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-64B13 3LHet	560347	648347	located_end	560347
	estimated_end	648347		
CH321-64B19 ArmU	881726	969726	estimated_end	881726
	located_end	969726		

CH321-64C13 2L	14404856	14492856	estimated_end	14404856
	located_end	14492856		
CH321-64C20 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-64D01 X	15842415	15930415	located_end	15842415
	estimated_end	15930415		
CH321-64D10 3RHet	1705607	1793607	located_end	1705607
	estimated_end	1793607		
CH321-64D11 3R	19222527	19310527	located_end	19222527
	estimated_end	19310527		
CH321-64D12 3R	18988187	19076187	estimated_end	18988187
	located_end	19076187		
CH321-64D16 X	18455474	18543474	located_end	18455474
	estimated_end	18543474		
CH321-64D17 3R	6198942	6286942	estimated_end	6198942
	located_end	6286942		
CH321-64D19 3RHet	1839433	1927433	estimated_end	1839433
	located_end	1927433		
CH321-64D23 2L	10115944	10203944	located_end	10115944
	estimated_end	10203944		
CH321-64E03 2L	6072517	6160517	located_end	6072517
	estimated_end	6160517		
CH321-64E13 3L	7692893	7780893	located_end	7692893
	estimated_end	7780893		
CH321-64E22 2L	21277868	21365868	estimated_end	21277868
	located_end	21365868		
CH321-64E23 3L	16980126	17068126	located_end	16980126
	estimated_end	17068126		
CH321-64F05 X	7624024	7712024	located_end	7624024
	estimated_end	7712024		
CH321-64G04 3L	11980575	12068575	estimated_end	11980575
	located_end	12068575		
CH321-64G15 3L	20267738	20355738	estimated_end	20267738
	located_end	20355738		
CH321-64H03 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-64H08 3L	14279266	14367266	estimated_end	14279266
	located_end	14367266		
CH321-64H10 2RHet	3094151	3182151	estimated_end	3094151
	located_end	3182151		
CH321-64H14 XHet	-81031	6969	estimated_end	-81031
	located_end	6969		
CH321-64H17 X	2597812	2685812	estimated_end	2597812
	located_end	2685812		
CH321-64H24 2R	18289367	18377367	estimated_end	18289367
	located_end	18377367		
CH321-64I15 3L	992261	1080261	estimated_end	992261
	located_end	1080261		
CH321-64I20 2L	14180373	14268373	located_end	14180373
	estimated_end	14268373		
CH321-64I22 2L	6074967	6162967	located_end	6074967
	estimated_end	6162967		
CH321-64I24 X	17990262	18078262	located_end	17990262
	estimated_end	18078262		

CH321-64J05 3L	9141203	9229203	estimated_end	9141203
	located_end	9229203		
CH321-64J07 2R	14477963	14565963	estimated_end	14477963
	located_end	14565963		
CH321-64J11 2RHet	704028	792028	located_end	704028
	estimated_end	792028		
CH321-64J17 3L	6595486	6683486	located_end	6595486
	estimated_end	6683486		
CH321-64J21 2R	6475261	6563261	estimated_end	6475261
	located_end	6563261		
CH321-64K02 3LHet	1573031	1661031	estimated_end	1573031
	located_end	1661031		
CH321-64K09 2L	14205802	14293802	located_end	14205802
	estimated_end	14293802		
CH321-64K21 ArmU	6595055	6683055	located_end	6595055
	estimated_end	6683055		
CH321-64K23 2R	12957455	13045455	estimated_end	12957455
	located_end	13045455		
CH321-64L07 ArmU	9108532	9196532	estimated_end	9108532
	located_end	9196532		
CH321-64L11 ArmU	3604440	3692440	estimated_end	3604440
	located_end	3692440		
CH321-64L14 3R	16704654	16792654	estimated_end	16704654
	located_end	16792654		
CH321-64M05 2L	13991737	14079737	estimated_end	13991737
	located_end	14079737		
CH321-64M11 3L	9269189	9357189	estimated_end	9269189
	located_end	9357189		
CH321-64M15 3L	7929955	8017955	located_end	7929955
	estimated_end	8017955		
CH321-64M19 X	496586	584586	estimated_end	496586
	located_end	584586		
CH321-64N07 3R	26105884	26193884	estimated_end	26105884
	located_end	26193884		
CH321-64N13 3L	18298689	18386689	estimated_end	18298689
	located_end	18386689		
CH321-64N14 3R	15860439	15948439	estimated_end	15860439
	located_end	15948439		
CH321-64N15 3R	7685523	7773523	located_end	7685523
	estimated_end	7773523		
CH321-64O16 3R	24509903	24597903	estimated_end	24509903
	located_end	24597903		
CH321-65A01 2L	4925859	5013859	estimated_end	4925859
	located_end	5013859		
CH321-65A03 2L	10357614	10445614	estimated_end	10357614
	located_end	10445614		
CH321-65A05 3L	13546970	13634970	located_end	13546970
	estimated_end	13634970		
CH321-65A06 2L	11789232	11877232	estimated_end	11789232
	located_end	11877232		
CH321-65A18 2R	11016299	11104299	estimated_end	11016299
	located_end	11104299		
CH321-65A22 X	4758134	4846134	estimated_end	4758134
	located_end	4846134		

CH321-65A24 3LHet	2432941	2520941	estimated_end	2432941
	located_end	2520941		
CH321-65B06 3L	9723734	9811734	located_end	9723734
	estimated_end	9811734		
CH321-65B13 2L	14958242	15046242	estimated_end	14958242
	located_end	15046242		
CH321-65B17 3R	10908111	10996111	located_end	10908111
	estimated_end	10996111		
CH321-65B20 YHet	89624	177624	estimated_end	89624
	located_end	177624		
CH321-65C05 3L	17784724	17872724	located_end	17784724
	estimated_end	17872724		
CH321-65C07 2R	5519870	5607870	estimated_end	5519870
	located_end	5607870		
CH321-65C17 3R	673021	761021	estimated_end	673021
	located_end	761021		
CH321-65D03 3R	20641556	20729556	estimated_end	20641556
	located_end	20729556		
CH321-65D06 2L	15613257	15701257	located_end	15613257
	estimated_end	15701257		
CH321-65D08 3R	4697482	4785482	estimated_end	4697482
	located_end	4785482		
CH321-65D09 X	6576253	6664253	estimated_end	6576253
	located_end	6664253		
CH321-65D10 X	382715	470715	located_end	382715
	estimated_end	470715		
CH321-65D12 2L	3623976	3711976	located_end	3623976
	estimated_end	3711976		
CH321-65D17 2R	6967544	7055544	located_end	6967544
	estimated_end	7055544		
CH321-65D22 3L	13242010	13330010	located_end	13242010
	estimated_end	13330010		
CH321-65E03 2R	12951657	13039657	located_end	12951657
	estimated_end	13039657		
CH321-65E05 2R	17086565	17174565	located_end	17086565
	estimated_end	17174565		
CH321-65E13 2R	16058162	16146162	located_end	16058162
	estimated_end	16146162		
CH321-65E15 X	16586018	16674018	estimated_end	16586018
	located_end	16674018		
CH321-65E17 2R	11639243	11727243	located_end	11639243
	estimated_end	11727243		
CH321-65E19 X	15082844	15170844	estimated_end	15082844
	located_end	15170844		
CH321-65E20 3L	11338224	11426224	located_end	11338224
	estimated_end	11426224		
CH321-65E24 X	3200398	3288398	estimated_end	3200398
	located_end	3288398		
CH321-65F07 2L	22440323	22528323	estimated_end	22440323
	located_end	22528323		
CH321-65F09 2L	2135582	2223582	estimated_end	2135582
	located_end	2223582		
CH321-65F13 2R	6246954	6334954	located_end	6246954
	estimated_end	6334954		

CH321-65F15 3L	18330585	18418585	located_end	18330585
	estimated_end	18418585		
CH321-65F16 2L	14459598	14547598	estimated_end	14459598
	located_end	14547598		
CH321-65F17 3R	24962114	25050114	located_end	24962114
	estimated_end	25050114		
CH321-65F18 3L	16032542	16120542	estimated_end	16032542
	located_end	16120542		
CH321-65F20 2R	17408603	17496603	estimated_end	17408603
	located_end	17496603		
CH321-65F23 2L	8218578	8306578	estimated_end	8218578
	located_end	8306578		
CH321-65F24 ArmU	6571641	6659641	estimated_end	6571641
	located_end	6659641		
CH321-65G03 2RHet	1050894	1138894	estimated_end	1050894
	located_end	1138894		
CH321-65G04 2L	712441	800441	located_end	712441
	estimated_end	800441		
CH321-65G08 3R	19239015	19327015	estimated_end	19239015
	located_end	19327015		
CH321-65G11 3R	6535269	6623269	estimated_end	6535269
	located_end	6623269		
CH321-65G15 2R	16211855	16299855	located_end	16211855
	estimated_end	16299855		
CH321-65G19 3L	3529173	3617173	estimated_end	3529173
	located_end	3617173		
CH321-65G22 3L	12926558	13014558	estimated_end	12926558
	located_end	13014558		
CH321-65H03 2R	1503357	1591357	located_end	1503357
	estimated_end	1591357		
CH321-65H05 2L	13476346	13564346	located_end	13476346
	estimated_end	13564346		
CH321-65H06 X	9688544	9776544	estimated_end	9688544
	located_end	9776544		
CH321-65H14 X	15231341	15319341	estimated_end	15231341
	located_end	15319341		
CH321-65H18 3R	26975940	27063940	estimated_end	26975940
	located_end	27063940		
CH321-65H21 3L	11490649	11578649	located_end	11490649
	estimated_end	11578649		
CH321-65H24 2L	6320962	6408962	estimated_end	6320962
	located_end	6408962		
CH321-65I04 2R	3855625	3943625	located_end	3855625
	estimated_end	3943625		
CH321-65I08 2L	16528666	16616666	located_end	16528666
	estimated_end	16616666		
CH321-65I17 3L	23778047	23866047	estimated_end	23778047
	located_end	23866047		
CH321-65I18 2L	727231	815231	estimated_end	727231
	located_end	815231		
CH321-65I21 2R	18808859	18896859	located_end	18808859
	estimated_end	18896859		
CH321-65I23 2R	11273598	11361598	estimated_end	11273598
	located_end	11361598		

CH321-65J03 2L	6511935	6599935	located_end	6511935
	estimated_end	6599935		
CH321-65J07 2L	18195576	18283576	estimated_end	18195576
	located_end	18283576		
CH321-65J11 2L	6023648	6111648	located_end	6023648
	estimated_end	6111648		
CH321-65J13 X	19285449	19373449	located_end	19285449
	estimated_end	19373449		
CH321-65J14 X	6959304	7047304	located_end	6959304
	estimated_end	7047304		
CH321-65J17 2L	13272604	13360604	estimated_end	13272604
	located_end	13360604		
CH321-65J21 2RHet	1934485	2022485	located_end	1934485
	estimated_end	2022485		
CH321-65K02 2R	9284406	9372406	estimated_end	9284406
	located_end	9372406		
CH321-65K05 3L	13405401	13493401	located_end	13405401
	estimated_end	13493401		
CH321-65K07 2L	14861340	14949340	located_end	14861340
	estimated_end	14949340		
CH321-65K09 3R	14590937	14678937	located_end	14590937
	estimated_end	14678937		
CH321-65K18 2R	12384709	12472709	located_end	12384709
	estimated_end	12472709		
CH321-65K23 X	2599176	2687176	estimated_end	2599176
	located_end	2687176		
CH321-65L14 X	19435063	19523063	located_end	19435063
	estimated_end	19523063		
CH321-65L15 3R	4693864	4781864	estimated_end	4693864
	located_end	4781864		
CH321-65L21 X	13399369	13487369	estimated_end	13399369
	located_end	13487369		
CH321-65L23 3RHet	1375726	1463726	estimated_end	1375726
	located_end	1463726		
CH321-65L24 2RHet	3018699	3106699	located_end	3018699
	estimated_end	3106699		
CH321-65M05 2L	9913978	10001978	estimated_end	9913978
	located_end	10001978		
CH321-65M12 3L	2945811	3033811	estimated_end	2945811
	located_end	3033811		
CH321-65M18 2R	6889442	6977442	estimated_end	6889442
	located_end	6977442		
CH321-65M22 3R	26949571	27037571	estimated_end	26949571
	located_end	27037571		
CH321-65N04 2L	13167392	13255392	estimated_end	13167392
	located_end	13255392		
CH321-65N08 2R	19782801	19870801	located_end	19782801
	estimated_end	19870801		
CH321-65N10 X	2362627	2450627	located_end	2362627
	estimated_end	2450627		
CH321-65N12 3R	18068055	18156055	estimated_end	18068055
	located_end	18156055		
CH321-65O02 2R	9941108	10029108	located_end	9941108
	estimated_end	10029108		

CH321-65O10 3RHet	1603974	1691974	estimated_end	1603974
	located_end	1691974		
CH321-65O14 2L	7138114	7226114	located_end	7138114
	estimated_end	7226114		
CH321-65O15 2L	1804469	1892469	estimated_end	1804469
	located_end	1892469		
CH321-65O16 3L	9083846	9171846	estimated_end	9083846
	located_end	9171846		
CH321-65P01 2L	14892719	14980719	located_end	14892719
	estimated_end	14980719		
CH321-66A10 2R	17084837	17172837	located_end	17084837
	estimated_end	17172837		
CH321-66A11 3L	23212355	23300355	located_end	23212355
	estimated_end	23300355		
CH321-66A13 X	14714187	14802187	estimated_end	14714187
	located_end	14802187		
CH321-66A18 2L	7661895	7749895	located_end	7661895
	estimated_end	7749895		
CH321-66B02 3R	24360233	24448233	estimated_end	24360233
	located_end	24448233		
CH321-66B08 3R	27630022	27718022	located_end	27630022
	estimated_end	27718022		
CH321-66B10 3L	21664104	21752104	estimated_end	21664104
	located_end	21752104		
CH321-66B16 3L	11597879	11685879	located_end	11597879
	estimated_end	11685879		
CH321-66C02 3R	19527471	19615471	estimated_end	19527471
	located_end	19615471		
CH321-66C03 X	3501269	3589269	estimated_end	3501269
	located_end	3589269		
CH321-66C04 X	13371061	13459061	located_end	13371061
	estimated_end	13459061		
CH321-66C05 3L	239758	327758	estimated_end	239758
	located_end	327758		
CH321-66C07 3L	15935729	16023729	located_end	15935729
	estimated_end	16023729		
CH321-66C08 2R	7386549	7474549	located_end	7386549
	estimated_end	7474549		
CH321-66C12 3L	13984207	14072207	located_end	13984207
	estimated_end	14072207		
CH321-66C13 3RHet	1502880	1590880	estimated_end	1502880
	located_end	1590880		
CH321-66C15 3R	20989982	21077982	estimated_end	20989982
	located_end	21077982		
CH321-66C17 3L	6766507	6854507	located_end	6766507
	estimated_end	6854507		
CH321-66C21 3R	25253006	25341006	estimated_end	25253006
	located_end	25341006		
CH321-66D01 2RHet	1171781	1259781	estimated_end	1171781
	located_end	1259781		
CH321-66D03 2L	8135053	8223053	located_end	8135053
	estimated_end	8223053		
CH321-66D05 2R	17090939	17178939	located_end	17090939
	estimated_end	17178939		

CH321-66D06 2L	18963583	19051583	located_end	18963583
	estimated_end	19051583		
CH321-66D15 X	7878526	7966526	estimated_end	7878526
	located_end	7966526		
CH321-66D18 3R	6136381	6224381	located_end	6136381
	estimated_end	6224381		
CH321-66D19 2R	16966199	17054199	located_end	16966199
	estimated_end	17054199		
CH321-66D22 X	7096051	7184051	estimated_end	7096051
	located_end	7184051		
CH321-66E03 3R	16708912	16796912	estimated_end	16708912
	located_end	16796912		
CH321-66E04 2R	12406774	12494774	estimated_end	12406774
	located_end	12494774		
CH321-66E06 2L	14714794	14802794	estimated_end	14714794
	located_end	14802794		
CH321-66E07 3R	16332074	16420074	located_end	16332074
	estimated_end	16420074		
CH321-66E08 3L	7596095	7684095	located_end	7596095
	estimated_end	7684095		
CH321-66E14 3L	18210544	18298544	located_end	18210544
	estimated_end	18298544		
CH321-66E16 3R	21069665	21157665	located_end	21069665
	estimated_end	21157665		
CH321-66E18 X	10677047	10765047	estimated_end	10677047
	located_end	10765047		
CH321-66E21 3R	5557699	5645699	located_end	5557699
	estimated_end	5645699		
CH321-66F02 X	8855468	8943468	located_end	8855468
	estimated_end	8943468		
CH321-66F03 2L	357801	445801	estimated_end	357801
	located_end	445801		
CH321-66F04 3R	23852809	23940809	located_end	23852809
	estimated_end	23940809		
CH321-66F06 3L	20633401	20721401	located_end	20633401
	estimated_end	20721401		
CH321-66F07 2L	20924557	21012557	located_end	20924557
	estimated_end	21012557		
CH321-66F08 X	11511794	11599794	located_end	11511794
	estimated_end	11599794		
CH321-66F12 3R	27089431	27177431	estimated_end	27089431
	located_end	27177431		
CH321-66F13 X	5684430	5772430	estimated_end	5684430
	located_end	5772430		
CH321-66F16 X	8571295	8659295	estimated_end	8571295
	located_end	8659295		
CH321-66F17 3L	7316436	7404436	located_end	7316436
	estimated_end	7404436		
CH321-66F18 2R	5076324	5164324	located_end	5076324
	estimated_end	5164324		
CH321-66G03 2R	19946355	20034355	estimated_end	19946355
	located_end	20034355		
CH321-66G05 3L	15479194	15567194	estimated_end	15479194
	located_end	15567194		

CH321-66G07 3R	2805395	2893395	located_end	2805395
	estimated_end	2893395		
CH321-66G08 3L	8062307	8150307	located_end	8062307
	estimated_end	8150307		
CH321-66G16 2R	10785466	10873466	estimated_end	10785466
	located_end	10873466		
CH321-66G20 3R	10214842	10302842	estimated_end	10214842
	located_end	10302842		
CH321-66G24 3L	8913617	9001617	located_end	8913617
	estimated_end	9001617		
CH321-66H01 3L	17743829	17831829	estimated_end	17743829
	located_end	17831829		
CH321-66H02 4	83616	171616	estimated_end	83616
	located_end	171616		
CH321-66H03 3R	13704656	13792656	estimated_end	13704656
	located_end	13792656		
CH321-66H04 3R	12151197	12239197	estimated_end	12151197
	located_end	12239197		
CH321-66H05 3L	10985869	11073869	estimated_end	10985869
	located_end	11073869		
CH321-66H06 2L	9719243	9807243	estimated_end	9719243
	located_end	9807243		
CH321-66H08 3L	6748876	6836876	located_end	6748876
	estimated_end	6836876		
CH321-66H14 3L	16648514	16736514	estimated_end	16648514
	located_end	16736514		
CH321-66H18 3R	20043012	20131012	estimated_end	20043012
	located_end	20131012		
CH321-66H23 2L	2727068	2815068	located_end	2727068
	estimated_end	2815068		
CH321-66I04 3R	6390817	6478817	estimated_end	6390817
	located_end	6478817		
CH321-66I05 3L	13015476	13103476	estimated_end	13015476
	located_end	13103476		
CH321-66I07 3R	17306898	17394898	estimated_end	17306898
	located_end	17394898		
CH321-66I20 3L	15819532	15907532	estimated_end	15819532
	located_end	15907532		
CH321-66I22 3L	18008252	18096252	located_end	18008252
	estimated_end	18096252		
CH321-66I23 2L	10810813	10898813	estimated_end	10810813
	located_end	10898813		
CH321-66I24 2L	22585703	22673703	estimated_end	22585703
	located_end	22673703		
CH321-66J01 3L	13167856	13255856	located_end	13167856
	estimated_end	13255856		
CH321-66J02 2R	16971637	17059637	located_end	16971637
	estimated_end	17059637		
CH321-66J06 3R	18613010	18701010	located_end	18613010
	estimated_end	18701010		
CH321-66J08 3R	15161622	15249622	estimated_end	15161622
	located_end	15249622		
CH321-66J20 2R	13496109	13584109	estimated_end	13496109
	located_end	13584109		

CH321-66K01 X	12102948	12190948	estimated_end	12102948
	located_end	12190948		
CH321-66K02 4	1019630	1107630	estimated_end	1019630
	located_end	1107630		
CH321-66K03 3L	10536808	10624808	estimated_end	10536808
	located_end	10624808		
CH321-66K05 3R	330082	418082	located_end	330082
	estimated_end	418082		
CH321-66K06 3R	19632305	19720305	located_end	19632305
	estimated_end	19720305		
CH321-66K07 2R	5068122	5156122	estimated_end	5068122
	located_end	5156122		
CH321-66K08 X	6236641	6324641	located_end	6236641
	estimated_end	6324641		
CH321-66K09 2L	19317102	19405102	located_end	19317102
	estimated_end	19405102		
CH321-66K10 ArmU	6735586	6823586	located_end	6735586
	estimated_end	6823586		
CH321-66K12 3L	11616278	11704278	located_end	11616278
	estimated_end	11704278		
CH321-66K14 2R	1936475	2024475	located_end	1936475
	estimated_end	2024475		
CH321-66K17 3L	7889150	7977150	estimated_end	7889150
	located_end	7977150		
CH321-66K23 3L	17826647	17914647	located_end	17826647
	estimated_end	17914647		
CH321-66L03 3L	9875813	9963813	located_end	9875813
	estimated_end	9963813		
CH321-66L04 3R	13119906	13207906	estimated_end	13119906
	located_end	13207906		
CH321-66L07 3L	22774357	22862357	estimated_end	22774357
	located_end	22862357		
CH321-66L08 3L	3547071	3635071	located_end	3547071
	estimated_end	3635071		
CH321-66L10 3L	18346966	18434966	located_end	18346966
	estimated_end	18434966		
CH321-66L19 X	8450877	8538877	estimated_end	8450877
	located_end	8538877		
CH321-66L21 2L	11798811	11886811	estimated_end	11798811
	located_end	11886811		
CH321-66L22 2R	6041801	6129801	estimated_end	6041801
	located_end	6129801		
CH321-66L23 2R	21083851	21171851	located_end	21083851
	estimated_end	21171851		
CH321-66M01 2L	64383	152383	estimated_end	64383
	located_end	152383		
CH321-66M03 3R	10131543	10219543	located_end	10131543
	estimated_end	10219543		
CH321-66M06 3R	13334468	13422468	located_end	13334468
	estimated_end	13422468		
CH321-66M07 3R	770535	858535	located_end	770535
	estimated_end	858535		
CH321-66M10 2L	60857	148857	estimated_end	60857
	located_end	148857		

CH321-66M11 3L	16808715	16896715	located_end	16808715
	estimated_end	16896715		
CH321-66M13 2L	15776748	15864748	located_end	15776748
	estimated_end	15864748		
CH321-66M15 X	14941150	15029150	estimated_end	14941150
	located_end	15029150		
CH321-66M19 3L	16776059	16864059	estimated_end	16776059
	located_end	16864059		
CH321-66M20 2L	18909597	18997597	estimated_end	18909597
	located_end	18997597		
CH321-66M21 3L	7245348	7333348	located_end	7245348
	estimated_end	7333348		
CH321-66M22 3L	24188539	24276539	located_end	24188539
	estimated_end	24276539		
CH321-66M23 2L	12482170	12570170	located_end	12482170
	estimated_end	12570170		
CH321-66N01 X	15890920	15978920	located_end	15890920
	estimated_end	15978920		
CH321-66N05 2L	6280885	6368885	estimated_end	6280885
	located_end	6368885		
CH321-66N08 3R	1819728	1907728	located_end	1819728
	estimated_end	1907728		
CH321-66N12 3L	18261550	18349550	located_end	18261550
	estimated_end	18349550		
CH321-66N13 2R	18696303	18784303	located_end	18696303
	estimated_end	18784303		
CH321-66N14 3L	21020046	21108046	estimated_end	21020046
	located_end	21108046		
CH321-66N15 2R	17336372	17424372	located_end	17336372
	estimated_end	17424372		
CH321-66N16 3L	20216214	20304214	estimated_end	20216214
	located_end	20304214		
CH321-66N17 2L	19748164	19836164	located_end	19748164
	estimated_end	19836164		
CH321-66N22 3R	1007442	1095442	estimated_end	1007442
	located_end	1095442		
CH321-66N23 2R	16976035	17064035	estimated_end	16976035
	located_end	17064035		
CH321-66N24 3R	2471780	2559780	located_end	2471780
	estimated_end	2559780		
CH321-66O03 3R	2073047	2161047	estimated_end	2073047
	located_end	2161047		
CH321-66O04 2L	7080037	7168037	located_end	7080037
	estimated_end	7168037		
CH321-66O05 3R	27302562	27390562	estimated_end	27302562
	located_end	27390562		
CH321-66O07 3R	114159	202159	estimated_end	114159
	located_end	202159		
CH321-66O09 3R	25113489	25201489	estimated_end	25113489
	located_end	25201489		
CH321-66O12 2LHet	192782	280782	located_end	192782
	estimated_end	280782		
CH321-66O13 3R	10534512	10622512	estimated_end	10534512
	located_end	10622512		

CH321-66014 3R	1739171	1827171	estimated_end	1739171
	located_end	1827171		
CH321-66017 3L	2375797	2463797	estimated_end	2375797
	located_end	2463797		
CH321-66018 X	17135744	17223744	estimated_end	17135744
	located_end	17223744		
CH321-66019 3R	27470994	27558994	estimated_end	27470994
	located_end	27558994		
CH321-66021 X	5497368	5585368	located_end	5497368
	estimated_end	5585368		
CH321-66022 3R	13458185	13546185	located_end	13458185
	estimated_end	13546185		
CH321-66P05 2L	5806555	5894555	estimated_end	5806555
	located_end	5894555		
CH321-66P07 2L	8697133	8785133	estimated_end	8697133
	located_end	8785133		
CH321-66P11 2L	8059743	8147743	estimated_end	8059743
	located_end	8147743		
CH321-66P13 2R	16800829	16888829	estimated_end	16800829
	located_end	16888829		
CH321-66P14 3R	16199306	16287306	located_end	16199306
	estimated_end	16287306		
CH321-66P16 3R	19886406	19974406	located_end	19886406
	estimated_end	19974406		
CH321-66P17 3L	16820208	16908208	located_end	16820208
	estimated_end	16908208		
CH321-66P20 X	14687338	14775338	located_end	14687338
	estimated_end	14775338		
CH321-66P22 2L	10296952	10384952	estimated_end	10296952
	located_end	10384952		
CH321-67A03 2RHet	236772	324772	located_end	236772
	estimated_end	324772		
CH321-67A12 2RHet	729202	817202	located_end	729202
	estimated_end	817202		
CH321-67A14 ArmU	1839755	1927755	located_end	1839755
	estimated_end	1927755		
CH321-67A15 3L	14854782	14942782	located_end	14854782
	estimated_end	14942782		
CH321-67A17 3R	23966716	24054716	located_end	23966716
	estimated_end	24054716		
CH321-67B06 3R	17071354	17159354	located_end	17071354
	estimated_end	17159354		
CH321-67B10 3L	9399224	9487224	estimated_end	9399224
	located_end	9487224		
CH321-67B16 X	1191491	1279491	located_end	1191491
	estimated_end	1279491		
CH321-67B18 3L	15840073	15928073	located_end	15840073
	estimated_end	15928073		
CH321-67B19 2R	2589028	2677028	located_end	2589028
	estimated_end	2677028		
CH321-67C05 ArmU	6325066	6413066	located_end	6325066
	estimated_end	6413066		
CH321-67C06 X	940609	1028609	estimated_end	940609
	located_end	1028609		

CH321-67C07 2R	15801210	15889210	located_end	15801210
	estimated_end	15889210		
CH321-67C08 X	12551582	12639582	estimated_end	12551582
	located_end	12639582		
CH321-67C09 X	8233056	8321056	estimated_end	8233056
	located_end	8321056		
CH321-67C10 ArmU	9536654	9624654	estimated_end	9536654
	located_end	9624654		
CH321-67C14 3L	11540088	11628088	located_end	11540088
	estimated_end	11628088		
CH321-67C15 X	10146701	10234701	estimated_end	10146701
	located_end	10234701		
CH321-67C20 3LHet	378201	466201	located_end	378201
	estimated_end	466201		
CH321-67D07 2L	121881	209881	located_end	121881
	estimated_end	209881		
CH321-67D10 3L	18469453	18557453	estimated_end	18469453
	located_end	18557453		
CH321-67D15 2L	16260885	16348885	estimated_end	16260885
	located_end	16348885		
CH321-67D17 2R	891385	979385	located_end	891385
	estimated_end	979385		
CH321-67D18 3R	24171128	24259128	located_end	24171128
	estimated_end	24259128		
CH321-67E03 2L	13422255	13510255	estimated_end	13422255
	located_end	13510255		
CH321-67E04 3L	10762457	10850457	located_end	10762457
	estimated_end	10850457		
CH321-67E10 3L	24267130	24355130	estimated_end	24267130
	located_end	24355130		
CH321-67E11 3L	10305486	10393486	located_end	10305486
	estimated_end	10393486		
CH321-67E13 2L	10336826	10424826	located_end	10336826
	estimated_end	10424826		
CH321-67E14 2R	1003991	1091991	located_end	1003991
	estimated_end	1091991		
CH321-67E17 3R	13933771	14021771	located_end	13933771
	estimated_end	14021771		
CH321-67E20 3L	7608749	7696749	estimated_end	7608749
	located_end	7696749		
CH321-67E24 3RHet	1609579	1697579	estimated_end	1609579
	located_end	1697579		
CH321-67F03 2L	8687420	8775420	located_end	8687420
	estimated_end	8775420		
CH321-67F06 3R	12749382	12837382	located_end	12749382
	estimated_end	12837382		
CH321-67F08 3RHet	1714892	1802892	estimated_end	1714892
	located_end	1802892		
CH321-67F12 2L	1454752	1542752	located_end	1454752
	estimated_end	1542752		
CH321-67F14 3R	4967321	5055321	located_end	4967321
	estimated_end	5055321		
CH321-67F15 2R	75905	163905	estimated_end	75905
	located_end	163905	located_end	163905

CH321-67F17 2L	3854686	3942686	located_end	3854686
	estimated_end	3942686		
CH321-67F18 3L	6055381	6143381	located_end	6055381
	estimated_end	6143381		
CH321-67G02 2L	5919153	6007153	located_end	5919153
	estimated_end	6007153		
CH321-67G03 ArmU	2700219	2788219	located_end	2700219
	estimated_end	2788219		
CH321-67G04 2L	9390215	9478215	located_end	9390215
	estimated_end	9478215		
CH321-67G05 3R	20513260	20601260	located_end	20513260
	estimated_end	20601260		
CH321-67G07 3R	26222196	26310196	estimated_end	26222196
	located_end	26310196		
CH321-67G08 2L	2935543	3023543	located_end	2935543
	estimated_end	3023543		
CH321-67G11 3R	23576411	23664411	located_end	23576411
	estimated_end	23664411		
CH321-67G16 2RHet	916490	1004490	estimated_end	916490
	located_end	1004490		
CH321-67G19 3L	13796219	13884219	estimated_end	13796219
	located_end	13884219		
CH321-67G20 2R	15686680	15774680	located_end	15686680
	estimated_end	15774680		
CH321-67G24 3RHet	687718	775718	located_end	687718
	estimated_end	775718		
CH321-67H03 3L	19050806	19138806	estimated_end	19050806
	located_end	19138806		
CH321-67H08 2L	12596226	12684226	estimated_end	12596226
	located_end	12684226		
CH321-67H15 X	6024381	6112381	estimated_end	6024381
	located_end	6112381		
CH321-67H16 3R	12481697	12569697	estimated_end	12481697
	located_end	12569697		
CH321-67H20 3L	22156217	22244217	estimated_end	22156217
	located_end	22244217		
CH321-67H23 3R	4889102	4977102	estimated_end	4889102
	located_end	4977102		
CH321-67H24 3R	16237167	16325167	located_end	16237167
	estimated_end	16325167		
CH321-67I01 3R	13701329	13789329	estimated_end	13701329
	located_end	13789329		
CH321-67I02 2L	8075722	8163722	estimated_end	8075722
	located_end	8163722		
CH321-67I04 X	12881515	12969515	located_end	12881515
	estimated_end	12969515		
CH321-67I06 3LHet	2310771	2398771	estimated_end	2310771
	located_end	2398771		
CH321-67I11 3R	21727610	21815610	located_end	21727610
	estimated_end	21815610		
CH321-67I12 2RHet	3101154	3189154	estimated_end	3101154
	located_end	3189154		
CH321-67I14 3LHet	1218274	1306274	estimated_end	1218274
	located_end	1306274		

CH321-67I15 2L	14585972	14673972	estimated_end	14585972
	located_end	14673972		
CH321-67I18 2R	12884218	12972218	located_end	12884218
	estimated_end	12972218		
CH321-67I19 3L	155967	243967	located_end	155967
	estimated_end	243967		
CH321-67I20 2L	-58279	29721	estimated_end	-58279
	located_end	29721		
CH321-67I23 2L	9447741	9535741	located_end	9447741
	estimated_end	9535741		
CH321-67I24 3R	24616098	24704098	located_end	24616098
	estimated_end	24704098		
CH321-67J03 3R	8951952	9039952	located_end	8951952
	estimated_end	9039952		
CH321-67J04 3R	10009582	10097582	estimated_end	10009582
	located_end	10097582		
CH321-67J10 2L	18098587	18186587	estimated_end	18098587
	located_end	18186587		
CH321-67J17 3R	328576	416576	located_end	328576
	estimated_end	416576		
CH321-67J18 X	9151547	9239547	located_end	9151547
	estimated_end	9239547		
CH321-67J24 3RHet	1547782	1635782	estimated_end	1547782
	located_end	1635782		
CH321-67K03 3R	7069275	7157275	located_end	7069275
	estimated_end	7157275		
CH321-67K08 3R	1922246	2010246	estimated_end	1922246
	located_end	2010246		
CH321-67K10 3R	5976084	6064084	estimated_end	5976084
	located_end	6064084		
CH321-67K11 2L	96871	184871	estimated_end	96871
	located_end	184871	located_end	184871
CH321-67K12 3R	224763	312763	estimated_end	224763
	located_end	312763		
CH321-67K16 X	3143507	3231507	located_end	3143507
	estimated_end	3231507		
CH321-67K17 2L	14417283	14505283	located_end	14417283
	estimated_end	14505283		
CH321-67K19 2R	1574702	1662702	estimated_end	1574702
	located_end	1662702		
CH321-67K22 2L	18321449	18409449	located_end	18321449
	estimated_end	18409449		
CH321-67K24 3R	21603923	21691923	located_end	21603923
	estimated_end	21691923		
CH321-67L09 X	3475061	3563061	estimated_end	3475061
	located_end	3563061		
CH321-67L19 2L	12860232	12948232	estimated_end	12860232
	located_end	12948232		
CH321-67M03 3L	21850377	21938377	located_end	21850377
	estimated_end	21938377		
CH321-67M08 3R	9034989	9122989	located_end	9034989
	estimated_end	9122989		
CH321-67M11 2R	15296047	15384047	located_end	15296047
	estimated_end	15384047		

CH321-67N03 3L	6325255	6413255	located_end	6325255
	estimated_end	6413255		
CH321-67N06 3R	21790834	21878834	estimated_end	21790834
	located_end	21878834		
CH321-67N08 2L	13452946	13540946	estimated_end	13452946
	located_end	13540946		
CH321-67N15 3L	430566	518566	located_end	430566
	estimated_end	518566		
CH321-67N16 X	14753053	14841053	estimated_end	14753053
	located_end	14841053		
CH321-67N18 X	7279581	7367581	estimated_end	7279581
	located_end	7367581		
CH321-67O07 2L	11278486	11366486	estimated_end	11278486
	located_end	11366486		
CH321-67O08 3L	10237101	10325101	estimated_end	10237101
	located_end	10325101		
CH321-67O09 2L	9369008	9457008	estimated_end	9369008
	located_end	9457008		
CH321-67O20 2R	16532584	16620584	estimated_end	16532584
	located_end	16620584		
CH321-67O22 3R	16590955	16678955	estimated_end	16590955
	located_end	16678955		
CH321-67O24 3R	23842012	23930012	located_end	23842012
	estimated_end	23930012		
CH321-67P15 3L	15388280	15476280	located_end	15388280
	estimated_end	15476280		
CH321-67P16 2R	3725218	3813218	estimated_end	3725218
	located_end	3813218		
CH321-67P21 3R	21223047	21311047	located_end	21223047
	estimated_end	21311047		
CH321-68A02 3R	24280439	24368439	estimated_end	24280439
	located_end	24368439		
CH321-68A09 X	-53568	34432	estimated_end	-53568
	located_end	34432		
CH321-68A11 2L	10895712	10983712	estimated_end	10895712
	located_end	10983712		
CH321-68A14 2L	22162678	22250678	estimated_end	22162678
	located_end	22250678		
CH321-68A24 2RHet	2619193	2707193	located_end	2619193
	estimated_end	2707193		
CH321-68B06 3LHet	2153561	2241561	located_end	2153561
	estimated_end	2241561		
CH321-68B07 2L	16805241	16893241	located_end	16805241
	estimated_end	16893241		
CH321-68B08 2L	18516726	18604726	located_end	18516726
	estimated_end	18604726		
CH321-68B10 3L	21961990	22049990	located_end	21961990
	estimated_end	22049990		
CH321-68C01 2L	19984747	20072747	located_end	19984747
	estimated_end	20072747		
CH321-68C06 X	17308891	17396891	located_end	17308891
	estimated_end	17396891		
CH321-68C07 X	10384896	10472896	located_end	10384896
	estimated_end	10472896		

CH321-68C08 3R	3675698	3763698	estimated_end	3675698
	located_end	3763698		
CH321-68C09 X	12810317	12898317	estimated_end	12810317
	located_end	12898317		
CH321-68C13 3L	17994655	18082655	located_end	17994655
	estimated_end	18082655		
CH321-68C15 2R	16670323	16758323	estimated_end	16670323
	located_end	16758323		
CH321-68C22 3L	22771272	22859272	located_end	22771272
	estimated_end	22859272		
CH321-68C23 2L	13264582	13352582	located_end	13264582
	estimated_end	13352582		
CH321-68D04 3R	25962313	26050313	located_end	25962313
	estimated_end	26050313		
CH321-68D16 3L	17903875	17991875	estimated_end	17903875
	located_end	17991875		
CH321-68D22 3RHet	1895302	1983302	located_end	1895302
	estimated_end	1983302		
CH321-68E04 3R	18266380	18354380	estimated_end	18266380
	located_end	18354380		
CH321-68E05 2L	21144329	21232329	located_end	21144329
	estimated_end	21232329		
CH321-68E07 2R	190338	278338	estimated_end	190338
	located_end	278338		
CH321-68E08 X	7677158	7765158	located_end	7677158
	estimated_end	7765158		
CH321-68E10 3L	6878329	6966329	estimated_end	6878329
	located_end	6966329		
CH321-68E11 3R	4772603	4860603	estimated_end	4772603
	located_end	4860603		
CH321-68E14 3L	12815292	12903292	estimated_end	12815292
	located_end	12903292		
CH321-68E18 X	6773528	6861528	estimated_end	6773528
	located_end	6861528		
CH321-68F01 3R	17973009	18061009	located_end	17973009
	estimated_end	18061009		
CH321-68F02 3L	19830450	19918450	estimated_end	19830450
	located_end	19918450		
CH321-68F06 X	11081254	11169254	estimated_end	11081254
	located_end	11169254		
CH321-68F08 X	13527985	13615985	located_end	13527985
	estimated_end	13615985		
CH321-68F10 2L	11206949	11294949	located_end	11206949
	estimated_end	11294949		
CH321-68F12 3R	24705935	24793935	located_end	24705935
	estimated_end	24793935		
CH321-68F17 2R	8923573	9011573	estimated_end	8923573
	located_end	9011573		
CH321-68F20 2L	6044149	6132149	located_end	6044149
	estimated_end	6132149		
CH321-68F21 2R	20561728	20649728	estimated_end	20561728
	located_end	20649728		
CH321-68F22 3R	23549642	23637642	located_end	23549642
	estimated_end	23637642		

CH321-68F23 3L	15720992	15808992	located_end	15720992
	estimated_end	15808992		
CH321-68G11 X	21639762	21727762	located_end	21639762
	estimated_end	21727762		
CH321-68G13 X	19465745	19553745	estimated_end	19465745
	located_end	19553745		
CH321-68G18 X	10855105	10943105	estimated_end	10855105
	located_end	10943105		
CH321-68G19 3L	10091772	10179772	estimated_end	10091772
	located_end	10179772		
CH321-68H09 ArmU	9795956	9883956	located_end	9795956
	estimated_end	9883956		
CH321-68H11 3R	15512977	15600977	located_end	15512977
	estimated_end	15600977		
CH321-68H12 2RHet	195212	283212	located_end	195212
	estimated_end	283212		
CH321-68H13 3L	15445530	15533530	located_end	15445530
	estimated_end	15533530		
CH321-68H23 2L	12428635	12516635	estimated_end	12428635
	located_end	12516635		
CH321-68I05 2L	18570668	18658668	located_end	18570668
	estimated_end	18658668		
CH321-68I19 X	9335560	9423560	estimated_end	9335560
	located_end	9423560		
CH321-68I21 X	10496223	10584223	located_end	10496223
	estimated_end	10584223		
CH321-68I23 3L	9466500	9554500	located_end	9466500
	estimated_end	9554500		
CH321-68J06 2L	21167740	21255740	located_end	21167740
	estimated_end	21255740		
CH321-68J07 2R	13354579	13442579	estimated_end	13354579
	located_end	13442579		
CH321-68J08 3R	9253310	9341310	located_end	9253310
	estimated_end	9341310		
CH321-68J15 X	1537505	1625505	estimated_end	1537505
	located_end	1625505		
CH321-68J16 3R	12245835	12333835	located_end	12245835
	estimated_end	12333835		
CH321-68J18 2L	12799902	12887902	estimated_end	12799902
	located_end	12887902		
CH321-68J21 2R	1171473	1259473	located_end	1171473
	estimated_end	1259473		
CH321-68J23 2L	13372137	13460137	estimated_end	13372137
	located_end	13460137		
CH321-68K06 3R	22064224	22152224	located_end	22064224
	estimated_end	22152224		
CH321-68K07 3L	7005655	7093655	estimated_end	7005655
	located_end	7093655		
CH321-68K14 2L	11522383	11610383	estimated_end	11522383
	located_end	11610383		
CH321-68K16 X	20884801	20972801	located_end	20884801
	estimated_end	20972801		
CH321-68K18 3R	9466967	9554967	estimated_end	9466967
	located_end	9554967		

CH321-68K22 X	12073747	12161747	estimated_end	12073747
	located_end	12161747		
CH321-68L04 2R	3776469	3864469	located_end	3776469
	estimated_end	3864469		
CH321-68L14 3RHet	21426 109426		located_end	21426 estimated_end
	109426			
CH321-68L18 X	17658198	17746198	located_end	17658198
	estimated_end	17746198		
CH321-68L19 3R	25999404	26087404	estimated_end	25999404
	located_end	26087404		
CH321-68M01 3R	6364721	6452721	estimated_end	6364721
	located_end	6452721		
CH321-68M04 2R	476400	564400	estimated_end	476400
	located_end	564400		
CH321-68M23 YHet	232591	320591	located_end	232591
	estimated_end	320591		
CH321-68N02 3L	16082490	16170490	estimated_end	16082490
	located_end	16170490		
CH321-68N05 2L	14834875	14922875	estimated_end	14834875
	located_end	14922875		
CH321-68N06 3R	20995699	21083699	located_end	20995699
	estimated_end	21083699		
CH321-68N07 2R	7470382	7558382	estimated_end	7470382
	located_end	7558382		
CH321-68N10 2R	-34363	53637	estimated_end	-34363
	located_end	53637		
CH321-68N18 ArmU	8670838	8758838	estimated_end	8670838
	located_end	8758838		
CH321-68N21 X	20999075	21087075	located_end	20999075
	estimated_end	21087075		
CH321-68O04 3L	15492601	15580601	estimated_end	15492601
	located_end	15580601		
CH321-68O06 3L	4791165	4879165	located_end	4791165
	estimated_end	4879165		
CH321-68O10 3R	25881851	25969851	located_end	25881851
	estimated_end	25969851		
CH321-68O20 3R	11530044	11618044	estimated_end	11530044
	located_end	11618044		
CH321-68P09 2L	16408270	16496270	located_end	16408270
	estimated_end	16496270		
CH321-68P24 X	11506539	11594539	located_end	11506539
	estimated_end	11594539		
CH321-69A01 3L	3809897	3897897	located_end	3809897
	estimated_end	3897897		
CH321-69A12 2L	1884119	1972119	located_end	1884119
	estimated_end	1972119		
CH321-69A13 3R	18748180	18836180	estimated_end	18748180
	located_end	18836180		
CH321-69A15 X	5523564	5611564	estimated_end	5523564
	located_end	5611564		
CH321-69A17 2R	6725126	6813126	located_end	6725126
	estimated_end	6813126		
CH321-69A18 3L	18507363	18595363	located_end	18507363
	estimated_end	18595363		

CH321-69B02 2L	21482971	21570971	estimated_end	21482971
	located_end	21570971		
CH321-69B05 4	827052	915052	located_end	827052
	estimated_end	915052		
CH321-69B13 3R	10947469	11035469	estimated_end	10947469
	located_end	11035469		
CH321-69B16 2L	12889968	12977968	located_end	12889968
	estimated_end	12977968		
CH321-69C03 2RHet	996116	1084116	estimated_end	996116
	located_end	1084116		
CH321-69C05 3R	3582287	3670287	estimated_end	3582287
	located_end	3670287		
CH321-69C06 3R	21854975	21942975	located_end	21854975
	estimated_end	21942975		
CH321-69C07 4	598528	686528	located_end	598528
	estimated_end	686528		
CH321-69C16 X	5299072	5387072	located_end	5299072
	estimated_end	5387072		
CH321-69C20 3L	20260077	20348077	located_end	20260077
	estimated_end	20348077		
CH321-69C24 2R	12753671	12841671	estimated_end	12753671
	located_end	12841671		
CH321-69D02 X	14593708	14681708	estimated_end	14593708
	located_end	14681708		
CH321-69D05 ArmU	3464965	3552965	estimated_end	3464965
	located_end	3552965		
CH321-69D07 X	19349087	19437087	located_end	19349087
	estimated_end	19437087		
CH321-69D09 3R	1829915	1917915	located_end	1829915
	estimated_end	1917915		
CH321-69D10 3R	24874117	24962117	estimated_end	24874117
	located_end	24962117		
CH321-69D11 3L	5985866	6073866	estimated_end	5985866
	located_end	6073866		
CH321-69D13 2L	1878140	1966140	located_end	1878140
	estimated_end	1966140		
CH321-69D14 2RHet	2174544	2262544	estimated_end	2174544
	located_end	2262544		
CH321-69D15 3R	10938146	11026146	estimated_end	10938146
	located_end	11026146		
CH321-69D19 X	22229588	22317588	estimated_end	22229588
	located_end	22317588		
CH321-69D21 3L	7948258	8036258	located_end	7948258
	estimated_end	8036258		
CH321-69D22 2R	49640	137640	located_end	49640
	137640		estimated_end	
CH321-69E05 2R	20728418	20816418	located_end	20728418
	estimated_end	20816418		
CH321-69E08 X	8132780	8220780	located_end	8132780
	estimated_end	8220780		
CH321-69E15 X	6010767	6098767	estimated_end	6010767
	located_end	6098767		
CH321-69E20 3L	10740328	10828328	located_end	10740328
	estimated_end	10828328		

CH321-69F09 3L	13154013	13242013	estimated_end	13154013
	located_end	13242013		
CH321-69F10 2L	1447847	1535847	estimated_end	1447847
	located_end	1535847		
CH321-69F11 ArmU	7204377	7292377	located_end	7204377
	estimated_end	7292377		
CH321-69F12 X	2747728	2835728	estimated_end	2747728
	located_end	2835728		
CH321-69F14 3L	5601995	5689995	located_end	5601995
	estimated_end	5689995		
CH321-69F18 3L	5742909	5830909	located_end	5742909
	estimated_end	5830909		
CH321-69F19 3L	17238796	17326796	located_end	17238796
	estimated_end	17326796		
CH321-69F21 2L	10939193	11027193	estimated_end	10939193
	located_end	11027193		
CH321-69F22 2L	20110105	20198105	estimated_end	20110105
	located_end	20198105		
CH321-69G07 2L	12818272	12906272	located_end	12818272
	estimated_end	12906272		
CH321-69G08 3L	6705995	6793995	estimated_end	6705995
	located_end	6793995		
CH321-69G14 X	1780173	1868173	estimated_end	1780173
	located_end	1868173		
CH321-69G15 2L	6355447	6443447	located_end	6355447
	estimated_end	6443447		
CH321-69G16 3RHet	738833	826833	located_end	738833
	estimated_end	826833		
CH321-69G18 3R	5887018	5975018	estimated_end	5887018
	located_end	5975018		
CH321-69G20 3R	25410939	25498939	estimated_end	25410939
	located_end	25498939		
CH321-69G24 3R	23333344	23421344	estimated_end	23333344
	located_end	23421344		
CH321-69H04 3L	3974834	4062834	located_end	3974834
	estimated_end	4062834		
CH321-69H09 2L	19125170	19213170	located_end	19125170
	estimated_end	19213170		
CH321-69H16 3R	9952300	10040300	located_end	9952300
	estimated_end	10040300		
CH321-69H18 X	16918325	17006325	estimated_end	16918325
	located_end	17006325		
CH321-69H24 X	17638280	17726280	located_end	17638280
	estimated_end	17726280		
CH321-69I04 3L	17040803	17128803	located_end	17040803
	estimated_end	17128803		
CH321-69I05 2R	11498154	11586154	located_end	11498154
	estimated_end	11586154		
CH321-69I07 X	8547518	8635518	located_end	8547518
	estimated_end	8635518		
CH321-69I09 3R	5893169	5981169	located_end	5893169
	estimated_end	5981169		
CH321-69I12 2L	12123953	12211953	estimated_end	12123953
	located_end	12211953		

CH321-69I21 2L	13529639	13617639	located_end	13529639
estimated_end	13617639			
CH321-69I24 2L	4725387	4813387	estimated_end	4725387
located_end	4813387			
CH321-69J03 3L	507863	595863	located_end	507863
estimated_end	595863			
CH321-69J06 2L	2733802	2821802	estimated_end	2733802
located_end	2821802			
CH321-69J07 X	17870853	17958853	located_end	17870853
estimated_end	17958853			
CH321-69J15 2L	8999415	9087415	located_end	8999415
estimated_end	9087415			
CH321-69K02 2L	14219160	14307160	located_end	14219160
estimated_end	14307160			
CH321-69K05 3R	24990854	25078854	estimated_end	24990854
located_end	25078854			
CH321-69K08 2R	7744158	7832158	located_end	7744158
estimated_end	7832158			
CH321-69K09 3R	22380621	22468621	located_end	22380621
estimated_end	22468621			
CH321-69K11 3R	22841046	22929046	estimated_end	22841046
located_end	22929046			
CH321-69K12 3R	16676961	16764961	estimated_end	16676961
located_end	16764961			
CH321-69K14 2R	10322750	10410750	located_end	10322750
estimated_end	10410750			
CH321-69K17 X	18967789	19055789	located_end	18967789
estimated_end	19055789			
CH321-69K19 2R	6595157	6683157	located_end	6595157
estimated_end	6683157			
CH321-69K22 2L	21272874	21360874	located_end	21272874
estimated_end	21360874			
CH321-69L08 3L	21261853	21349853	located_end	21261853
estimated_end	21349853			
CH321-69L13 3L	215266	303266	estimated_end	215266
located_end	303266			
CH321-69L16 X	15328822	15416822	located_end	15328822
estimated_end	15416822			
CH321-69L21 2L	2912724	3000724	estimated_end	2912724
located_end	3000724			
CH321-69L22 3L	19586095	19674095	estimated_end	19586095
located_end	19674095			
CH321-69M04 ArmU	9707959	9795959	estimated_end	9707959
located_end	9795959			
CH321-69M06 3L	1587093	1675093	estimated_end	1587093
located_end	1675093			
CH321-69M07 2L	1817007	1905007	located_end	1817007
estimated_end	1905007			
CH321-69M08 3L	6970894	7058894	located_end	6970894
estimated_end	7058894			
CH321-69M11 ArmU	214464	302464	located_end	214464
estimated_end	302464			
CH321-69M17 2R	487370	575370	located_end	487370
estimated_end	575370			

CH321-69N03 3L	4381078	4469078	located_end	4381078
	estimated_end	4469078		
CH321-69N06 3R	19035276	19123276	estimated_end	19035276
	located_end	19123276		
CH321-69N07 3L	16388595	16476595	located_end	16388595
	estimated_end	16476595		
CH321-69N09 3R	11478648	11566648	located_end	11478648
	estimated_end	11566648		
CH321-69O08 3L	6083783	6171783	located_end	6083783
	estimated_end	6171783		
CH321-69O12 2L	14610634	14698634	located_end	14610634
	estimated_end	14698634		
CH321-69O20 2R	9935280	10023280	estimated_end	9935280
	located_end	10023280		
CH321-69P07 2R	7683622	7771622	estimated_end	7683622
	located_end	7771622		
CH321-69P12 2L	10670519	10758519	estimated_end	10670519
	located_end	10758519		
CH321-69P14 2R	10157316	10245316	located_end	10157316
	estimated_end	10245316		
CH321-69P16 2R	8929815	9017815	located_end	8929815
	estimated_end	9017815		
CH321-69P19 3L	6610072	6698072	estimated_end	6610072
	located_end	6698072		
CH321-69P23 ArmU	7809357	7897357	estimated_end	7809357
	located_end	7897357		
CH321-69P24 2L	16056243	16144243	located_end	16056243
	estimated_end	16144243		
CH321-70A03 2L	22193201	22281201	located_end	22193201
	estimated_end	22281201		
CH321-70B03 ArmU	2916454	3004454	located_end	2916454
	estimated_end	3004454		
CH321-70B23 3R	18463045	18551045	estimated_end	18463045
	located_end	18551045		
CH321-70B24 ArmU	1330094	1418094	located_end	1330094
	estimated_end	1418094		
CH321-70C02 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-70C05 2L	21193173	21281173	estimated_end	21193173
	located_end	21281173		
CH321-70C06 3L	3810981	3898981	located_end	3810981
	estimated_end	3898981		
CH321-70C07 2L	1501951	1589951	located_end	1501951
	estimated_end	1589951		
CH321-70C09 2L	20446079	20534079	estimated_end	20446079
	located_end	20534079		
CH321-70C10 X	11242295	11330295	estimated_end	11242295
	located_end	11330295		
CH321-70C13 3R	15595407	15683407	estimated_end	15595407
	located_end	15683407		
CH321-70C14 X	2602723	2690723	estimated_end	2602723
	located_end	2690723		
CH321-70C15 3R	24672267	24760267	located_end	24672267
	estimated_end	24760267		

CH321-70C17 3L	15022467	15110467	located_end	15022467
	estimated_end	15110467		
CH321-70C24 2L	16518855	16606855	estimated_end	16518855
	located_end	16606855		
CH321-70D15 3L	13419646	13507646	estimated_end	13419646
	located_end	13507646		
CH321-70D16 3L	8581136	8669136	located_end	8581136
	estimated_end	8669136		
CH321-70D17 2L	12718209	12806209	estimated_end	12718209
	located_end	12806209		
CH321-70D19 3L	17714412	17802412	estimated_end	17714412
	located_end	17802412		
CH321-70E06 2RHet	2511538	2599538	estimated_end	2511538
	located_end	2599538		
CH321-70E07 X	20372688	20460688	estimated_end	20372688
	located_end	20460688		
CH321-70E08 3R	21751424	21839424	located_end	21751424
	estimated_end	21839424		
CH321-70E15 2L	18803825	18891825	estimated_end	18803825
	located_end	18891825		
CH321-70E21 2L	18243193	18331193	located_end	18243193
	estimated_end	18331193		
CH321-70E24 2L	4337540	4425540	estimated_end	4337540
	located_end	4425540		
CH321-70F17 3R	9179994	9267994	located_end	9179994
	estimated_end	9267994		
CH321-70F20 2R	1522647	1610647	located_end	1522647
	estimated_end	1610647		
CH321-70G04 3L	16707974	16795974	estimated_end	16707974
	located_end	16795974		
CH321-70G07 2RHet	2073334	2161334	located_end	2073334
	estimated_end	2161334		
CH321-70G08 2L	21136626	21224626	estimated_end	21136626
	located_end	21224626		
CH321-70G09 3R	24659901	24747901	located_end	24659901
	estimated_end	24747901		
CH321-70G14 3R	25779347	25867347	estimated_end	25779347
	located_end	25867347		
CH321-70G15 X	16205073	16293073	estimated_end	16205073
	located_end	16293073		
CH321-70G18 3L	15674649	15762649	located_end	15674649
	estimated_end	15762649		
CH321-70G21 2L	1442639	1530639	located_end	1442639
	estimated_end	1530639		
CH321-70G23 2L	17379568	17467568	located_end	17379568
	estimated_end	17467568		
CH321-70H04 2R	509149	597149	estimated_end	509149
	located_end	597149		
CH321-70H24 ArmU	1248000	1336000	located_end	1248000
	estimated_end	1336000		
CH321-70I01 X	16117853	16205853	estimated_end	16117853
	located_end	16205853		
CH321-70I03 3R	7160248	7248248	estimated_end	7160248
	located_end	7248248		

CH321-70I05 3L	22002443	22090443	located_end 22002443
	estimated_end	22090443	
CH321-70I07 3L	9041232	9129232	located_end 9041232
	estimated_end	9129232	
CH321-70I13 X	16079110	16167110	estimated_end 16079110
	located_end	16167110	
CH321-70I14 3R	3223692	3311692	located_end 3223692
	estimated_end	3311692	
CH321-70I20 2L	18759624	18847624	located_end 18759624
	estimated_end	18847624	
CH321-70J05 2R	8896131	8984131	estimated_end 8896131
	located_end	8984131	
CH321-70J06 3L	19152862	19240862	estimated_end 19152862
	located_end	19240862	
CH321-70J08 3L	5423470	5511470	estimated_end 5423470
	located_end	5511470	
CH321-70J10 3L	12325143	12413143	located_end 12325143
	estimated_end	12413143	
CH321-70J14 3L	14404589	14492589	located_end 14404589
	estimated_end	14492589	
CH321-70J16 3R	26412267	26500267	located_end 26412267
	estimated_end	26500267	
CH321-70J17 X	14019868	14107868	estimated_end 14019868
	located_end	14107868	
CH321-70J20 2R	8401744	8489744	located_end 8401744
	estimated_end	8489744	
CH321-70K04 ArmU	2429835	2517835	located_end 2429835
	estimated_end	2517835	
CH321-70K05 3R	24155776	24243776	estimated_end 24155776
	located_end	24243776	
CH321-70K09 ArmU	8840056	8928056	located_end 8840056
	estimated_end	8928056	
CH321-70K10 3L	18350648	18438648	estimated_end 18350648
	located_end	18438648	
CH321-70K15 3R	5409878	5497878	estimated_end 5409878
	located_end	5497878	
CH321-70K17 X	2662814	2750814	located_end 2662814
	estimated_end	2750814	
CH321-70K20 3R	13785496	13873496	estimated_end 13785496
	located_end	13873496	
CH321-70L04 2L	20678316	20766316	located_end 20678316
	estimated_end	20766316	
CH321-70L20 2L	14791255	14879255	estimated_end 14791255
	located_end	14879255	
CH321-70L21 2R	985235	1073235	estimated_end 985235
	located_end	1073235	
CH321-70L22 ArmU	6913224	7001224	estimated_end 6913224
	located_end	7001224	
CH321-70L23 3L	1404216	1492216	located_end 1404216
	estimated_end	1492216	
CH321-70M07 2R	13509219	13597219	located_end 13509219
	estimated_end	13597219	
CH321-70M11 3R	2321790	2409790	estimated_end 2321790
	located_end	2409790	

CH321-70M17 X	11821548	11909548	located_end	11821548
	estimated_end	11909548		
CH321-70M20 X	2597230	2685230	estimated_end	2597230
	located_end	2685230		
CH321-70M21 3L	10865253	10953253	estimated_end	10865253
	located_end	10953253		
CH321-70M22 2L	12565956	12653956	located_end	12565956
	estimated_end	12653956		
CH321-70M24 X	5188176	5276176	estimated_end	5188176
	located_end	5276176		
CH321-70N02 X	19249884	19337884	located_end	19249884
	estimated_end	19337884		
CH321-70N06 3R	4534720	4622720	estimated_end	4534720
	located_end	4622720		
CH321-70N08 2R	10651563	10739563	located_end	10651563
	estimated_end	10739563		
CH321-70N13 3L	16397783	16485783	estimated_end	16397783
	located_end	16485783		
CH321-70N16 2L	22509250	22597250	estimated_end	22509250
	located_end	22597250		
CH321-70N22 3L	7956356	8044356	estimated_end	7956356
	located_end	8044356		
CH321-70O08 2L	2726618	2814618	estimated_end	2726618
	located_end	2814618		
CH321-70O15 3R	9792894	9880894	estimated_end	9792894
	located_end	9880894		
CH321-70O19 3LHet	864008	952008	located_end	864008
	estimated_end	952008		
CH321-70O20 3L	16100818	16188818	estimated_end	16100818
	located_end	16188818		
CH321-70O21 3L	20557489	20645489	estimated_end	20557489
	located_end	20645489		
CH321-70O22 2L	11820638	11908638	located_end	11820638
	estimated_end	11908638		
CH321-70O24 3L	21606774	21694774	estimated_end	21606774
	located_end	21694774		
CH321-70P10 3R	3311472	3399472	located_end	3311472
	estimated_end	3399472		
CH321-70P23 3R	18215884	18303884	estimated_end	18215884
	located_end	18303884		
CH321-71A01 2R	4181035	4269035	located_end	4181035
	estimated_end	4269035		
CH321-71A02 2R	4181035	4269035	located_end	4181035
	estimated_end	4269035		
CH321-71A18 2L	22350401	22438401	estimated_end	22350401
	located_end	22438401		
CH321-71A23 3L	6864031	6952031	estimated_end	6864031
	located_end	6952031		
CH321-71B20 3R	19983140	20071140	located_end	19983140
	estimated_end	20071140		
CH321-71C05 3R	8934665	9022665	located_end	8934665
	estimated_end	9022665		
CH321-71C06 3R	8934768	9022768	located_end	8934768
	estimated_end	9022768		

CH321-71C07 ArmU	9261422	9349422	estimated_end	9261422
	located_end	9349422		
CH321-71C08 2R	4318343	4406343	located_end	4318343
	estimated_end	4406343		
CH321-71C09 2R	1325744	1413744	estimated_end	1325744
	located_end	1413744		
CH321-71C10 3R	26627643	26715643	estimated_end	26627643
	located_end	26715643		
CH321-71C11 X	19184905	19272905	located_end	19184905
	estimated_end	19272905		
CH321-71C17 3R	22701237	22789237	estimated_end	22701237
	located_end	22789237		
CH321-71C18 3LHet	1310326	1398326	estimated_end	1310326
	located_end	1398326		
CH321-71C19 3R	5115754	5203754	estimated_end	5115754
	located_end	5203754		
CH321-71C20 X	8839443	8927443	estimated_end	8839443
	located_end	8927443		
CH321-71D01 3L	10115968	10203968	located_end	10115968
	estimated_end	10203968		
CH321-71D07 3R	12973278	13061278	estimated_end	12973278
	located_end	13061278		
CH321-71D08 2L	18007323	18095323	located_end	18007323
	estimated_end	18095323		
CH321-71D17 3L	15142300	15230300	estimated_end	15142300
	located_end	15230300		
CH321-71D21 X	12212822	12300822	located_end	12212822
	estimated_end	12300822		
CH321-71E02 3LHet	599329	687329	estimated_end	599329
	located_end	687329		
CH321-71E07 2R	16529821	16617821	estimated_end	16529821
	located_end	16617821		
CH321-71E09 3R	16872659	16960659	located_end	16872659
	estimated_end	16960659		
CH321-71E10 3R	16872659	16960659	located_end	16872659
	estimated_end	16960659		
CH321-71E12 ArmU	4320623	4408623	located_end	4320623
	estimated_end	4408623		
CH321-71E16 2R	12513908	12601908	located_end	12513908
	estimated_end	12601908		
CH321-71E18 2L	11187947	11275947	estimated_end	11187947
	located_end	11275947		
CH321-71E20 3R	17572697	17660697	located_end	17572697
	estimated_end	17660697		
CH321-71F03 2L	16003287	16091287	located_end	16003287
	estimated_end	16091287		
CH321-71F07 3L	7821640	7909640	located_end	7821640
	estimated_end	7909640		
CH321-71F12 2R	6195188	6283188	located_end	6195188
	estimated_end	6283188		
CH321-71F16 3R	18909779	18997779	estimated_end	18909779
	located_end	18997779		
CH321-71F20 3R	1028386	1116386	located_end	1028386
	estimated_end	1116386		

CH321-71G05 2R	9412664	9500664	estimated_end	9412664
	located_end	9500664		
CH321-71G06 2R	14189689	14277689	located_end	14189689
	estimated_end	14277689		
CH321-71G12 2R	13112547	13200547	located_end	13112547
	estimated_end	13200547		
CH321-71G15 2L	1213730	1301730	estimated_end	1213730
	located_end	1301730		
CH321-71G16 3L	9886561	9974561	estimated_end	9886561
	located_end	9974561		
CH321-71G20 3L	11110753	11198753	estimated_end	11110753
	located_end	11198753		
CH321-71G21 X	15895618	15983618	located_end	15895618
	estimated_end	15983618		
CH321-71G24 3L	10528681	10616681	estimated_end	10528681
	located_end	10616681		
CH321-71H04 3L	73782	161782	estimated_end	73782
	located_end	161782		
CH321-71H15 2R	9938136	10026136	located_end	9938136
	estimated_end	10026136		
CH321-71H19 ArmU	621926	709926	located_end	621926
	estimated_end	709926		
CH321-71H21 3RHet	1147053	1235053	estimated_end	1147053
	located_end	1235053		
CH321-71I01 2R	3550025	3638025	estimated_end	3550025
	located_end	3638025		
CH321-71I04 2L	18602493	18690493	located_end	18602493
	estimated_end	18690493		
CH321-71I12 2R	10779729	10867729	estimated_end	10779729
	located_end	10867729		
CH321-71I18 2L	20394569	20482569	estimated_end	20394569
	located_end	20482569		
CH321-71I23 2L	17183453	17271453	located_end	17183453
	estimated_end	17271453		
CH321-71I24 2R	11484820	11572820	estimated_end	11484820
	located_end	11572820		
CH321-71J06 2R	17073924	17161924	located_end	17073924
	estimated_end	17161924		
CH321-71J12 2R	7696149	7784149	estimated_end	7696149
	located_end	7784149		
CH321-71J13 3R	15948595	16036595	located_end	15948595
	estimated_end	16036595		
CH321-71J15 X	4461054	4549054	estimated_end	4461054
	located_end	4549054		
CH321-71J22 2R	19265531	19353531	estimated_end	19265531
	located_end	19353531		
CH321-71K03 3L	15747583	15835583	located_end	15747583
	estimated_end	15835583		
CH321-71K08 2R	18119426	18207426	estimated_end	18119426
	located_end	18207426		
CH321-71K14 3R	7257679	7345679	located_end	7257679
	estimated_end	7345679		
CH321-71K15 X	15729782	15817782	located_end	15729782
	estimated_end	15817782		

CH321-71K19 2R	19358501	19446501	located_end	19358501
	estimated_end	19446501		
CH321-71L02 2L	4885958	4973958	located_end	4885958
	estimated_end	4973958		
CH321-71L06 2R	2033172	2121172	located_end	2033172
	estimated_end	2121172		
CH321-71L11 3R	21144807	21232807	located_end	21144807
	estimated_end	21232807		
CH321-71L13 X	5837439	5925439	estimated_end	5837439
	located_end	5925439		
CH321-71L14 3R	5953171	6041171	estimated_end	5953171
	located_end	6041171		
CH321-71L15 3R	5794896	5882896	estimated_end	5794896
	located_end	5882896		
CH321-71L18 X	14547228	14635228	estimated_end	14547228
	located_end	14635228		
CH321-71L24 3R	26034998	26122998	estimated_end	26034998
	located_end	26122998		
CH321-71M06 3R	9801150	9889150	estimated_end	9801150
	located_end	9889150		
CH321-71M07 2L	17054219	17142219	estimated_end	17054219
	located_end	17142219		
CH321-71M08 3R	3049841	3137841	located_end	3049841
	estimated_end	3137841		
CH321-71M09 2L	7881999	7969999	located_end	7881999
	estimated_end	7969999		
CH321-71M11 2RHet	3102248	3190248	estimated_end	3102248
	located_end	3190248		
CH321-71N05 X	10562178	10650178	estimated_end	10562178
	located_end	10650178		
CH321-71N06 2L	22091766	22179766	estimated_end	22091766
	located_end	22179766		
CH321-71N08 2L	12104765	12192765	estimated_end	12104765
	located_end	12192765		
CH321-71N09 3LHet	384699	472699	located_end	384699
	estimated_end	472699		
CH321-71N13 3R	607853	695853	located_end	607853
	estimated_end	695853		
CH321-71O01 3L	9850601	9938601	located_end	9850601
	estimated_end	9938601		
CH321-71O04 3R	12373372	12461372	located_end	12373372
	estimated_end	12461372		
CH321-71O07 3L	14138911	14226911	estimated_end	14138911
	located_end	14226911		
CH321-71O16 3R	27560860	27648860	located_end	27560860
	estimated_end	27648860		
CH321-71O19 2RHet	1965578	2053578	located_end	1965578
	estimated_end	2053578		
CH321-71O20 2L	7608244	7696244	located_end	7608244
	estimated_end	7696244		
CH321-71O23 3R	8406406	8494406	estimated_end	8406406
	located_end	8494406		
CH321-71O24 3R	8406406	8494406	estimated_end	8406406
	located_end	8494406		

CH321-71P04 3L	10863395	10951395	located_end	10863395
	estimated_end	10951395		
CH321-71P05 3R	4391083	4479083	estimated_end	4391083
	located_end	4479083		
CH321-71P10 2L	19641020	19729020	estimated_end	19641020
	located_end	19729020		
CH321-71P15 X	14562713	14650713	estimated_end	14562713
	located_end	14650713		
CH321-71P16 2R	779862	867862	located_end	779862
	estimated_end	867862		
CH321-71P19 X	15648557	15736557	located_end	15648557
	estimated_end	15736557		
CH321-71P22 3R	20301390	20389390	estimated_end	20301390
	located_end	20389390		
CH321-71P23 2R	12357104	12445104	estimated_end	12357104
	located_end	12445104		
CH321-72A02 X	20474038	20562038	estimated_end	20474038
	located_end	20562038		
CH321-72A03 3L	6080584	6168584	estimated_end	6080584
	located_end	6168584		
CH321-72A09 ArmU	519606	607606	located_end	519606
	estimated_end	607606		
CH321-72A14 2R	9305266	9393266	located_end	9305266
	estimated_end	9393266		
CH321-72A20 ArmU	5814755	5902755	estimated_end	5814755
	located_end	5902755		
CH321-72A21 3L	13981770	14069770	located_end	13981770
	estimated_end	14069770		
CH321-72B06 2R	11582912	11670912	estimated_end	11582912
	located_end	11670912		
CH321-72B13 2L	8283332	8371332	located_end	8283332
	estimated_end	8371332		
CH321-72B14 2L	18619065	18707065	located_end	18619065
	estimated_end	18707065		
CH321-72C04 3L	6321936	6409936	located_end	6321936
	estimated_end	6409936		
CH321-72C13 3L	7433467	7521467	located_end	7433467
	estimated_end	7521467		
CH321-72C15 3L	11398337	11486337	located_end	11398337
	estimated_end	11486337		
CH321-72C20 ArmU	1091053	1179053	estimated_end	1091053
	located_end	1179053		
CH321-72D04 3L	17138589	17226589	located_end	17138589
	estimated_end	17226589		
CH321-72D06 3L	2381717	2469717	estimated_end	2381717
	located_end	2469717		
CH321-72D08 3R	22207008	22295008	estimated_end	22207008
	located_end	22295008		
CH321-72D16 3L	11840233	11928233	estimated_end	11840233
	located_end	11928233		
CH321-72D17 3R	24653244	24741244	estimated_end	24653244
	located_end	24741244		
CH321-72D18 X	7947054	8035054	located_end	7947054
	estimated_end	8035054		

CH321-72D19 X	7431308	7519308	located_end	7431308
	estimated_end	7519308		
CH321-72D21 X	13211717	13299717	located_end	13211717
	estimated_end	13299717		
CH321-72D22 2L	22107915	22195915	estimated_end	22107915
	located_end	22195915		
CH321-72E05 ArmU	40973	128973	located_end	40973
			estimated_end	128973
CH321-72E06 2L	15932676	16020676	located_end	15932676
	estimated_end	16020676		
CH321-72E18 3R	2109384	2197384	estimated_end	2109384
	located_end	2197384		
CH321-72E19 3L	16368642	16456642	estimated_end	16368642
	located_end	16456642		
CH321-72E20 3R	4420503	4508503	estimated_end	4420503
	located_end	4508503		
CH321-72E24 2R	5061337	5149337	located_end	5061337
	estimated_end	5149337		
CH321-72F02 2L	21301221	21389221	located_end	21301221
	estimated_end	21389221		
CH321-72F04 3RHet	383108	471108	located_end	383108
	estimated_end	471108		
CH321-72F13 2R	10926503	11014503	located_end	10926503
	estimated_end	11014503		
CH321-72F14 2L	10498427	10586427	located_end	10498427
	estimated_end	10586427		
CH321-72F17 3R	26530780	26618780	estimated_end	26530780
	located_end	26618780		
CH321-72F18 3L	5531039	5619039	estimated_end	5531039
	located_end	5619039		
CH321-72F19 3L	15800742	15888742	estimated_end	15800742
	located_end	15888742		
CH321-72F20 3R	4414005	4502005	located_end	4414005
	estimated_end	4502005		
CH321-72G03 3R	2361493	2449493	located_end	2361493
	estimated_end	2449493		
CH321-72G07 3R	22093790	22181790	estimated_end	22093790
	located_end	22181790		
CH321-72G09 2R	11745050	11833050	estimated_end	11745050
	located_end	11833050		
CH321-72G13 3R	25870479	25958479	located_end	25870479
	estimated_end	25958479		
CH321-72G15 3L	1959159	2047159	estimated_end	1959159
	located_end	2047159		
CH321-72G19 2L	14644594	14732594	estimated_end	14644594
	located_end	14732594		
CH321-72G21 2R	4250547	4338547	located_end	4250547
	estimated_end	4338547		
CH321-72G24 ArmU	9546329	9634329	located_end	9546329
	estimated_end	9634329		
CH321-72H01 ArmU	545790	633790	located_end	545790
	estimated_end	633790		
CH321-72H04 2L	18159334	18247334	located_end	18159334
	estimated_end	18247334		

CH321-72H05 2R	20463804	20551804	estimated_end	20463804
	located_end	20551804		
CH321-72H13 X	9974233	10062233	located_end	9974233
	estimated_end	10062233		
CH321-72H15 2R	19769830	19857830	located_end	19769830
	estimated_end	19857830		
CH321-72H16 2R	6885397	6973397	estimated_end	6885397
	located_end	6973397		
CH321-72H18 ArmU	8880589	8968589	estimated_end	8880589
	located_end	8968589		
CH321-72I03 3R	6900615	6988615	located_end	6900615
	estimated_end	6988615		
CH321-72I05 3LHet	2192906	2280906	located_end	2192906
	estimated_end	2280906		
CH321-72I08 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-72I09 3L	22625686	22713686	located_end	22625686
	estimated_end	22713686		
CH321-72I12 ArmU	6530864	6618864	located_end	6530864
	estimated_end	6618864		
CH321-72I19 ArmU	-17256	70744	estimated_end	-17256
	located_end	70744		
CH321-72I24 X	17818543	17906543	located_end	17818543
	estimated_end	17906543		
CH321-72J04 3L	16806580	16894580	located_end	16806580
	estimated_end	16894580		
CH321-72J09 2LHet	-61130	26870	estimated_end	-61130
	located_end	26870		
CH321-72J12 3R	26419059	26507059	located_end	26419059
	estimated_end	26507059		
CH321-72J14 3R	26504137	26592137	estimated_end	26504137
	located_end	26592137		
CH321-72J15 3RHet	1685801	1773801	estimated_end	1685801
	located_end	1773801		
CH321-72J16 2R	14912504	15000504	located_end	14912504
	estimated_end	15000504		
CH321-72J17 2L	8121138	8209138	located_end	8121138
	estimated_end	8209138		
CH321-72J22 3R	21633292	21721292	estimated_end	21633292
	located_end	21721292		
CH321-72K01 2L	4843958	4931958	estimated_end	4843958
	located_end	4931958		
CH321-72K04 3R	21920629	22008629	estimated_end	21920629
	located_end	22008629		
CH321-72K11 3L	15721170	15809170	located_end	15721170
	estimated_end	15809170		
CH321-72K14 2L	6083663	6171663	estimated_end	6083663
	located_end	6171663		
CH321-72K17 2R	2041785	2129785	estimated_end	2041785
	located_end	2129785		
CH321-72K19 2L	16347666	16435666	estimated_end	16347666
	located_end	16435666		
CH321-72L07 2R	11337580	11425580	estimated_end	11337580
	located_end	11425580		

CH321-72L09 3R	27125433	27213433	located_end	27125433
	estimated_end	27213433		
CH321-72L10 2R	1410792	1498792	located_end	1410792
	estimated_end	1498792		
CH321-72L15 2R	7444781	7532781	estimated_end	7444781
	located_end	7532781		
CH321-72L18 3R	3821274	3909274	estimated_end	3821274
	located_end	3909274		
CH321-72L19 2L	16597125	16685125	estimated_end	16597125
	located_end	16685125		
CH321-72M01 3L	17095087	17183087	estimated_end	17095087
	located_end	17183087		
CH321-72M03 3R	204167	292167	located_end	204167
	estimated_end	292167		
CH321-72M04 2R	891004	979004	located_end	891004
	estimated_end	979004		
CH321-72M06 2L	1154748	1242748	located_end	1154748
	estimated_end	1242748		
CH321-72M14 3L	15019315	15107315	located_end	15019315
	estimated_end	15107315		
CH321-72M19 2R	14935537	15023537	estimated_end	14935537
	located_end	15023537		
CH321-72M21 3R	24168371	24256371	estimated_end	24168371
	located_end	24256371		
CH321-72N04 3R	24168683	24256683	located_end	24168683
	estimated_end	24256683		
CH321-72N07 2R	12575858	12663858	located_end	12575858
	estimated_end	12663858		
CH321-72N09 2R	17268592	17356592	estimated_end	17268592
	located_end	17356592		
CH321-72N19 3L	17090306	17178306	estimated_end	17090306
	located_end	17178306		
CH321-72N22 2L	5038251	5126251	located_end	5038251
	estimated_end	5126251		
CH321-72O04 X	6979517	7067517	estimated_end	6979517
	located_end	7067517		
CH321-72O06 3LHet	2334567	2422567	estimated_end	2334567
	located_end	2422567		
CH321-72O07 3R	25377323	25465323	estimated_end	25377323
	located_end	25465323		
CH321-72O10 2R	480676	568676	located_end	480676
	estimated_end	568676		
CH321-72O20 3R	15498247	15586247	located_end	15498247
	estimated_end	15586247		
CH321-72P05 2R	4397961	4485961	estimated_end	4397961
	located_end	4485961		
CH321-72P12 3R	7072968	7160968	located_end	7072968
	estimated_end	7160968		
CH321-72P14 ArmU	6478988	6566988	located_end	6478988
	estimated_end	6566988		
CH321-73A06 2R	20337793	20425793	estimated_end	20337793
	located_end	20425793		
CH321-73B08 X	12002377	12090377	located_end	12002377
	estimated_end	12090377		

CH321-73B13 X	13202468	13290468	located_end	13202468
	estimated_end	13290468		
CH321-73C07 3LHet	165785	253785	estimated_end	165785
	located_end	253785		
CH321-73C08 2L	15331914	15419914	located_end	15331914
	estimated_end	15419914		
CH321-73C09 3LHet	1832121	1920121	located_end	1832121
	estimated_end	1920121		
CH321-73C14 3R	6615692	6703692	located_end	6615692
	estimated_end	6703692		
CH321-73C15 3R	24823353	24911353	estimated_end	24823353
	located_end	24911353		
CH321-73D05 2L	8490524	8578524	estimated_end	8490524
	located_end	8578524		
CH321-73D06 3RHet	1809157	1897157	located_end	1809157
	estimated_end	1897157		
CH321-73D08 X	6744280	6832280	located_end	6744280
	estimated_end	6832280		
CH321-73D09 3L	21072327	21160327	located_end	21072327
	estimated_end	21160327		
CH321-73D10 2R	11728166	11816166	estimated_end	11728166
	located_end	11816166		
CH321-73D15 3L	20441061	20529061	estimated_end	20441061
	located_end	20529061		
CH321-73D20 2L	15289739	15377739	estimated_end	15289739
	located_end	15377739		
CH321-73E05 3L	11031129	11119129	located_end	11031129
	estimated_end	11119129		
CH321-73E06 2L	14513996	14601996	estimated_end	14513996
	located_end	14601996		
CH321-73E10 X	8993349	9081349	located_end	8993349
	estimated_end	9081349		
CH321-73E11 3R	266067	354067	estimated_end	266067
	located_end	354067		
CH321-73E16 3R	8486377	8574377	located_end	8486377
	estimated_end	8574377		
CH321-73F12 2L	16840126	16928126	located_end	16840126
	estimated_end	16928126		
CH321-73F14 3RHet	1937433	2025433	located_end	1937433
	estimated_end	2025433		
CH321-73F15 3L	2973989	3061989	located_end	2973989
	estimated_end	3061989		
CH321-73F17 3R	19601632	19689632	estimated_end	19601632
	located_end	19689632		
CH321-73G03 3L	14324481	14412481	located_end	14324481
	estimated_end	14412481		
CH321-73G08 2R	13769437	13857437	located_end	13769437
	estimated_end	13857437		
CH321-73G12 X	15338633	15426633	located_end	15338633
	estimated_end	15426633		
CH321-73G16 3L	20133271	20221271	estimated_end	20133271
	located_end	20221271		
CH321-73G19 2R	14180001	14268001	located_end	14180001
	estimated_end	14268001		

CH321-73G21 X	21128170	21216170	located_end	21128170
	estimated_end	21216170		
CH321-73G24 3R	6700513	6788513	located_end	6700513
	estimated_end	6788513		
CH321-73H02 3R	18338550	18426550	located_end	18338550
	estimated_end	18426550		
CH321-73H04 2R	1774405	1862405	estimated_end	1774405
	located_end	1862405		
CH321-73H09 2R	15493201	15581201	located_end	15493201
	estimated_end	15581201		
CH321-73H16 3R	11222100	11310100	located_end	11222100
	estimated_end	11310100		
CH321-73H19 3R	16075040	16163040	located_end	16075040
	estimated_end	16163040		
CH321-73H20 3R	16536555	16624555	estimated_end	16536555
	located_end	16624555		
CH321-73H21 3R	3142384	3230384	located_end	3142384
	estimated_end	3230384		
CH321-73I02 2L	17980480	18068480	located_end	17980480
	estimated_end	18068480		
CH321-73I03 2L	17525269	17613269	located_end	17525269
	estimated_end	17613269		
CH321-73I04 3R	12747574	12835574	estimated_end	12747574
	located_end	12835574		
CH321-73I05 2L	10940726	11028726	estimated_end	10940726
	located_end	11028726		
CH321-73I12 3L	7799509	7887509	located_end	7799509
	estimated_end	7887509		
CH321-73I14 3L	18198065	18286065	estimated_end	18198065
	located_end	18286065		
CH321-73I16 2L	18205443	18293443	located_end	18205443
	estimated_end	18293443		
CH321-73I20 2L	11313368	11401368	located_end	11313368
	estimated_end	11401368		
CH321-73J03 3L	6726691	6814691	located_end	6726691
	estimated_end	6814691		
CH321-73J04 3R	5198680	5286680	located_end	5198680
	estimated_end	5286680		
CH321-73J05 2R	16090918	16178918	estimated_end	16090918
	located_end	16178918		
CH321-73J07 3L	4746579	4834579	estimated_end	4746579
	located_end	4834579		
CH321-73J13 2R	17622184	17710184	estimated_end	17622184
	located_end	17710184		
CH321-73J15 3L	710633	798633	estimated_end	710633
	located_end	798633		
CH321-73J18 3R	24969933	25057933	estimated_end	24969933
	located_end	25057933		
CH321-73J20 2L	3738063	3826063	estimated_end	3738063
	located_end	3826063		
CH321-73J23 3L	21296613	21384613	located_end	21296613
	estimated_end	21384613		
CH321-73K09 2R	19743812	19831812	located_end	19743812
	estimated_end	19831812		

CH321-73K12 X	14652292	14740292	located_end	14652292
	estimated_end	14740292		
CH321-73K14 2L	15878936	15966936	estimated_end	15878936
	located_end	15966936		
CH321-73K15 2R	17478935	17566935	estimated_end	17478935
	located_end	17566935		
CH321-73K16 2R	5956285	6044285	estimated_end	5956285
	located_end	6044285		
CH321-73K17 2R	15941753	16029753	located_end	15941753
	estimated_end	16029753		
CH321-73K21 ArmU	5615053	5703053	estimated_end	5615053
	located_end	5703053		
CH321-73K23 X	19857701	19945701	estimated_end	19857701
	located_end	19945701		
CH321-73K24 X	16845330	16933330	located_end	16845330
	estimated_end	16933330		
CH321-73L02 2R	3051382	3139382	located_end	3051382
	estimated_end	3139382		
CH321-73L04 3L	7275368	7363368	located_end	7275368
	estimated_end	7363368		
CH321-73L05 3R	5744270	5832270	located_end	5744270
	estimated_end	5832270		
CH321-73L11 3R	4712336	4800336	located_end	4712336
	estimated_end	4800336		
CH321-73L16 3R	4252059	4340059	estimated_end	4252059
	located_end	4340059		
CH321-73M01 3L	4892217	4980217	estimated_end	4892217
	located_end	4980217		
CH321-73M03 3L	4264814	4352814	estimated_end	4264814
	located_end	4352814		
CH321-73M04 3L	4717842	4805842	located_end	4717842
	estimated_end	4805842		
CH321-73M05 2L	17595155	17683155	located_end	17595155
	estimated_end	17683155		
CH321-73M07 X	2540262	2628262	located_end	2540262
	estimated_end	2628262		
CH321-73M08 3R	18000188	18088188	estimated_end	18000188
	located_end	18088188		
CH321-73M09 3L	9228728	9316728	estimated_end	9228728
	located_end	9316728		
CH321-73M11 X	20579774	20667774	estimated_end	20579774
	located_end	20667774		
CH321-73M12 2R	20167340	20255340	estimated_end	20167340
	located_end	20255340		
CH321-73M18 3R	2288312	2376312	estimated_end	2288312
	located_end	2376312		
CH321-73M20 X	7221614	7309614	located_end	7221614
	estimated_end	7309614		
CH321-73N01 X	5124850	5212850	estimated_end	5124850
	located_end	5212850		
CH321-73N02 3L	2508992	2596992	located_end	2508992
	estimated_end	2596992		
CH321-73N05 ArmU	2561079	2649079	located_end	2561079
	estimated_end	2649079		

CH321-73N06 2L	113701	201701	estimated_end	113701
	located_end	201701		
CH321-73N07 2R	85156	173156	located_end	85156 estimated_end
	173156			
CH321-73N08 3R	22814846	22902846	located_end	22814846
	estimated_end	22902846		
CH321-73N18 3L	1808172	1896172	estimated_end	1808172
	located_end	1896172		
CH321-73O06 3L	7969933	8057933	located_end	7969933
	estimated_end	8057933		
CH321-73O07 3R	23761774	23849774	estimated_end	23761774
	located_end	23849774		
CH321-73O08 X	19591057	19679057	estimated_end	19591057
	located_end	19679057		
CH321-73O10 2L	14021023	14109023	located_end	14021023
	estimated_end	14109023		
CH321-73O18 4	316255	404255	estimated_end	316255
	located_end	404255		
CH321-73O20 2R	8863835	8951835	located_end	8863835
	estimated_end	8951835		
CH321-73P11 ArmU	45933	133933	estimated_end	45933 located_end
	133933			
CH321-73P15 3R	2350616	2438616	estimated_end	2350616
	located_end	2438616		
CH321-73P24 X	19266521	19354521	located_end	19266521
	estimated_end	19354521		
CH321-74A13 3R	9350992	9438992	estimated_end	9350992
	located_end	9438992		
CH321-74A14 2L	13543159	13631159	located_end	13543159
	estimated_end	13631159		
CH321-74B05 3R	10672084	10760084	located_end	10672084
	estimated_end	10760084		
CH321-74B15 3L	18938410	19026410	estimated_end	18938410
	located_end	19026410		
CH321-74B22 3R	17145883	17233883	located_end	17145883
	estimated_end	17233883		
CH321-74B24 2L	12728258	12816258	located_end	12728258
	estimated_end	12816258		
CH321-74C03 2R	3542576	3630576	located_end	3542576
	estimated_end	3630576		
CH321-74C04 2R	433273	521273	estimated_end	433273
	located_end	521273		
CH321-74C05 2L	15430900	15518900	estimated_end	15430900
	located_end	15518900		
CH321-74C16 X	15892848	15980848	estimated_end	15892848
	located_end	15980848		
CH321-74C24 2R	6224286	6312286	located_end	6224286
	estimated_end	6312286		
CH321-74D04 2R	9864900	9952900	estimated_end	9864900
	located_end	9952900		
CH321-74D05 2R	10871481	10959481	located_end	10871481
	estimated_end	10959481		
CH321-74D20 3L	10907310	10995310	estimated_end	10907310
	located_end	10995310		

CH321-74E09 3R	26945702	27033702	located_end	26945702
	estimated_end	27033702		
CH321-74E17 3L	17036751	17124751	estimated_end	17036751
	located_end	17124751		
CH321-74E19 3R	4717986	4805986	estimated_end	4717986
	located_end	4805986		
CH321-74E22 3LHet	829873	917873	estimated_end	829873
	located_end	917873		
CH321-74F02 3L	21341424	21429424	estimated_end	21341424
	located_end	21429424		
CH321-74F03 2L	12261770	12349770	estimated_end	12261770
	located_end	12349770		
CH321-74F13 2L	5570480	5658480	located_end	5570480
	estimated_end	5658480		
CH321-74F14 3R	23672304	23760304	located_end	23672304
	estimated_end	23760304		
CH321-74F17 3R	26903542	26991542	estimated_end	26903542
	located_end	26991542		
CH321-74F21 2R	6784841	6872841	located_end	6784841
	estimated_end	6872841		
CH321-74F23 3R	2976652	3064652	estimated_end	2976652
	located_end	3064652		
CH321-74F24 3L	14106416	14194416	estimated_end	14106416
	located_end	14194416		
CH321-74G06 ArmU	9836850	9924850	located_end	9836850
	estimated_end	9924850		
CH321-74G16 ArmU	8419123	8507123	estimated_end	8419123
	located_end	8507123		
CH321-74G20 3R	10586055	10674055	located_end	10586055
	estimated_end	10674055		
CH321-74H06 2L	19369484	19457484	located_end	19369484
	estimated_end	19457484		
CH321-74H11 3L	18470502	18558502	estimated_end	18470502
	located_end	18558502		
CH321-74H16 ArmU	6186432	6274432	located_end	6186432
	estimated_end	6274432		
CH321-74H18 X	16400655	16488655	estimated_end	16400655
	located_end	16488655		
CH321-74H19 3R	3946920	4034920	located_end	3946920
	estimated_end	4034920		
CH321-74I02 2R	15710598	15798598	estimated_end	15710598
	located_end	15798598		
CH321-74I04 3R	14427148	14515148	located_end	14427148
	estimated_end	14515148		
CH321-74I09 2R	20812938	20900938	estimated_end	20812938
	located_end	20900938		
CH321-74I14 2L	4797067	4885067	located_end	4797067
	estimated_end	4885067		
CH321-74I18 3R	22048025	22136025	estimated_end	22048025
	located_end	22136025		
CH321-74I19 2L	9027426	9115426	estimated_end	9027426
	located_end	9115426		
CH321-74I22 3R	14510520	14598520	located_end	14510520
	estimated_end	14598520		

CH321-74J02 ArmU	6418858	6506858	located_end	6418858
	estimated_end	6506858		
CH321-74J04 3L	7724367	7812367	estimated_end	7724367
	located_end	7812367		
CH321-74J08 3L	11478052	11566052	estimated_end	11478052
	located_end	11566052		
CH321-74J09 X	2861228	2949228	estimated_end	2861228
	located_end	2949228		
CH321-74J13 2L	12931066	13019066	located_end	12931066
	estimated_end	13019066		
CH321-74J16 2R	19692583	19780583	estimated_end	19692583
	located_end	19780583		
CH321-74J20 3L	6859021	6947021	estimated_end	6859021
	located_end	6947021		
CH321-74K01 X	6901354	6989354	located_end	6901354
	estimated_end	6989354		
CH321-74K02 3LHet	34301 122301		located_end 34301	estimated_end
	122301			
CH321-74K06 2R	14942936	15030936	located_end	14942936
	estimated_end	15030936		
CH321-74K14 3R	9279192	9367192	located_end	9279192
	estimated_end	9367192		
CH321-74K15 3R	9640526	9728526	located_end	9640526
	estimated_end	9728526		
CH321-74K17 3R	19198883	19286883	located_end	19198883
	estimated_end	19286883		
CH321-74K18 2R	19015544	19103544	located_end	19015544
	estimated_end	19103544		
CH321-74K21 3L	178593	266593	located_end	178593
	estimated_end	266593		
CH321-74K22 2R	18490518	18578518	estimated_end	18490518
	located_end	18578518		
CH321-74K23 X	19857701	19945701	estimated_end	19857701
	located_end	19945701		
CH321-74L06 3R	4336785	4424785	located_end	4336785
	estimated_end	4424785		
CH321-74L07 3LHet	2314272	2402272	estimated_end	2314272
	located_end	2402272		
CH321-74L15 2R	4768632	4856632	located_end	4768632
	estimated_end	4856632		
CH321-74L19 2R	14792132	14880132	located_end	14792132
	estimated_end	14880132		
CH321-74L23 3L	9490447	9578447	located_end	9490447
	estimated_end	9578447		
CH321-74L24 X	21440701	21528701	located_end	21440701
	estimated_end	21528701		
CH321-74M01 X	75161 163161		estimated_end	75161
	163161		located_end	
CH321-74M06 X	2152233	2240233	estimated_end	2152233
	located_end	2240233		
CH321-74M10 3L	2362302	2450302	located_end	2362302
	estimated_end	2450302		
CH321-74M15 3RHet	1932836	2020836	estimated_end	1932836
	located_end	2020836		

CH321-74M16 X	19160710	19248710	estimated_end	19160710
	located_end	19248710		
CH321-74N05 X	6864128	6952128	estimated_end	6864128
	located_end	6952128		
CH321-74N07 3L	13759804	13847804	estimated_end	13759804
	located_end	13847804		
CH321-74N08 3R	7390868	7478868	estimated_end	7390868
	located_end	7478868		
CH321-74N10 2R	12286667	12374667	estimated_end	12286667
	located_end	12374667		
CH321-74N18 2R	8311525	8399525	located_end	8311525
	estimated_end	8399525		
CH321-74N22 2L	1180755	1268755	located_end	1180755
	estimated_end	1268755		
CH321-74N23 2L	8443057	8531057	estimated_end	8443057
	located_end	8531057		
CH321-74O05 3L	15111950	15199950	located_end	15111950
	estimated_end	15199950		
CH321-74O07 2L	5245972	5333972	located_end	5245972
	estimated_end	5333972		
CH321-74O10 3R	11796846	11884846	estimated_end	11796846
	located_end	11884846		
CH321-74O11 3R	9379899	9467899	located_end	9379899
	estimated_end	9467899		
CH321-74O21 2L	10253223	10341223	estimated_end	10253223
	located_end	10341223		
CH321-74P16 3R	849555	937555	estimated_end	849555
	located_end	937555		
CH321-74P17 3R	9011382	9099382	located_end	9011382
	estimated_end	9099382		
CH321-75A01 3R	27782164	27870164	located_end	27782164
	estimated_end	27870164		
CH321-75A02 3L	3718878	3806878	estimated_end	3718878
	located_end	3806878		
CH321-75A03 2L	3535144	3623144	estimated_end	3535144
	located_end	3623144		
CH321-75A04 3R	12216050	12304050	located_end	12216050
	estimated_end	12304050		
CH321-75A05 3L	10884140	10972140	estimated_end	10884140
	located_end	10972140		
CH321-75A07 X	8218929	8306929	estimated_end	8218929
	located_end	8306929		
CH321-75A09 2L	2038523	2126523	estimated_end	2038523
	located_end	2126523		
CH321-75A22 3R	22557008	22645008	located_end	22557008
	estimated_end	22645008		
CH321-75A24 YHet	192465	280465	located_end	192465
	estimated_end	280465		
CH321-75B02 X	13566767	13654767	estimated_end	13566767
	located_end	13654767		
CH321-75B03 X	14714985	14802985	estimated_end	14714985
	located_end	14802985		
CH321-75B05 X	3235552	3323552	estimated_end	3235552
	located_end	3323552		

CH321-75B06 2L	10958546	11046546	estimated_end	10958546
	located_end	11046546		
CH321-75B14 2L	7498939	7586939	located_end	7498939
	estimated_end	7586939		
CH321-75C05 3RHet	323301	411301	estimated_end	323301
	located_end	411301		
CH321-75C07 3R	19641207	19729207	located_end	19641207
	estimated_end	19729207		
CH321-75C08 2R	10485835	10573835	located_end	10485835
	estimated_end	10573835		
CH321-75C14 3R	8462141	8550141	estimated_end	8462141
	located_end	8550141		
CH321-75C15 3RHet	1672891	1760891	located_end	1672891
	estimated_end	1760891		
CH321-75C16 3R	3823427	3911427	estimated_end	3823427
	located_end	3911427		
CH321-75C20 3R	24367629	24455629	estimated_end	24367629
	located_end	24455629		
CH321-75C22 2L	9777897	9865897	estimated_end	9777897
	located_end	9865897		
CH321-75D10 2R	2741162	2829162	estimated_end	2741162
	located_end	2829162		
CH321-75D16 3L	22886138	22974138	located_end	22886138
	estimated_end	22974138		
CH321-75D17 2L	18221831	18309831	estimated_end	18221831
	located_end	18309831		
CH321-75D21 X	3741734	3829734	estimated_end	3741734
	located_end	3829734		
CH321-75D23 3LHet	2115121	2203121	located_end	2115121
	estimated_end	2203121		
CH321-75E03 3R	6171333	6259333	estimated_end	6171333
	located_end	6259333		
CH321-75E06 X	20342438	20430438	located_end	20342438
	estimated_end	20430438		
CH321-75E10 2R	3763900	3851900	estimated_end	3763900
	located_end	3851900		
CH321-75E14 2L	22872886	22960886	located_end	22872886
	estimated_end	22960886		
CH321-75E16 3L	4809060	4897060	located_end	4809060
	estimated_end	4897060		
CH321-75E19 2R	19908589	19996589	estimated_end	19908589
	located_end	19996589		
CH321-75E23 2L	4418961	4506961	estimated_end	4418961
	located_end	4506961		
CH321-75F05 ArmU	36746	124746	located_end	36746
	estimated_end	124746		
CH321-75F12 3L	23421058	23509058	estimated_end	23421058
	located_end	23509058		
CH321-75F15 X	5767046	5855046	estimated_end	5767046
	located_end	5855046		
CH321-75F16 2RHet	2986282	3074282	estimated_end	2986282
	located_end	3074282		
CH321-75F21 2R	7925863	8013863	located_end	7925863
	estimated_end	8013863		

CH321-75F22 3L	22534462	22622462	located_end	22534462
	estimated_end	22622462		
CH321-75G05 X	21148962	21236962	located_end	21148962
	estimated_end	21236962		
CH321-75G08 4	571217	659217	located_end	571217
	estimated_end	659217		
CH321-75G23 2L	22359699	22447699	located_end	22359699
	estimated_end	22447699		
CH321-75H04 2L	18771660	18859660	located_end	18771660
	estimated_end	18859660		
CH321-75H14 3LHet	1152377	1240377	estimated_end	1152377
	located_end	1240377		
CH321-75H17 3LHet	183511	271511	estimated_end	183511
	located_end	271511		
CH321-75H18 3L	5959255	6047255	located_end	5959255
	estimated_end	6047255		
CH321-75H21 3R	3205726	3293726	located_end	3205726
	estimated_end	3293726		
CH321-75I06 3LHet	1802407	1890407	estimated_end	1802407
	located_end	1890407		
CH321-75I15 3R	825866	913866	located_end	825866
	estimated_end	913866		
CH321-75I18 X	20345404	20433404	located_end	20345404
	estimated_end	20433404		
CH321-75I19 3R	14908356	14996356	located_end	14908356
	estimated_end	14996356		
CH321-75I20 3L	3235024	3323024	estimated_end	3235024
	located_end	3323024		
CH321-75I21 2L	3098431	3186431	located_end	3098431
	estimated_end	3186431		
CH321-75I24 3R	9372069	9460069	located_end	9372069
	estimated_end	9460069		
CH321-75J02 3L	14232284	14320284	estimated_end	14232284
	located_end	14320284		
CH321-75J06 2L	2490198	2578198	estimated_end	2490198
	located_end	2578198		
CH321-75J07 X	16557024	16645024	estimated_end	16557024
	located_end	16645024		
CH321-75J10 2L	1630414	1718414	located_end	1630414
	estimated_end	1718414		
CH321-75J13 3L	15575447	15663447	located_end	15575447
	estimated_end	15663447		
CH321-75J20 2L	3064999	3152999	located_end	3064999
	estimated_end	3152999		
CH321-75K05 3L	10487250	10575250	estimated_end	10487250
	located_end	10575250		
CH321-75K07 3R	13478637	13566637	estimated_end	13478637
	located_end	13566637		
CH321-75K14 X	14716684	14804684	estimated_end	14716684
	located_end	14804684		
CH321-75K16 3L	5289861	5377861	estimated_end	5289861
	located_end	5377861		
CH321-75K20 3L	24146112	24234112	estimated_end	24146112
	located_end	24234112		

CH321-75K24 2L	1068794	1156794	located_end	1068794
	estimated_end	1156794		
CH321-75L10 3R	24321187	24409187	estimated_end	24321187
	located_end	24409187		
CH321-75L20 3R	5234267	5322267	estimated_end	5234267
	located_end	5322267		
CH321-75L21 3L	11152257	11240257	estimated_end	11152257
	located_end	11240257		
CH321-75M03 2R	16072793	16160793	estimated_end	16072793
	located_end	16160793		
CH321-75M04 3L	17632508	17720508	estimated_end	17632508
	located_end	17720508		
CH321-75M06 2L	16042258	16130258	estimated_end	16042258
	located_end	16130258		
CH321-75M12 ArmU	7427031	7515031	estimated_end	7427031
	located_end	7515031		
CH321-75M16 2R	2225529	2313529	located_end	2225529
	estimated_end	2313529		
CH321-75M19 2L	1248924	1336924	estimated_end	1248924
	located_end	1336924		
CH321-75N03 2L	22533421	22621421	estimated_end	22533421
	located_end	22621421		
CH321-75N04 2R	17977887	18065887	estimated_end	17977887
	located_end	18065887		
CH321-75N10 2RHet	2796643	2884643	located_end	2796643
	estimated_end	2884643		
CH321-75O10 3LHet	1208245	1296245	located_end	1208245
	estimated_end	1296245		
CH321-75O14 3L	4470000	4558000	located_end	4470000
	estimated_end	4558000		
CH321-75O20 ArmU	3657995	3745995	estimated_end	3657995
	located_end	3745995		
CH321-75P12 ArmU	7919180	8007180	estimated_end	7919180
	located_end	8007180		
CH321-75P23 2L	22975838	23063838	located_end	22975838
	estimated_end	23063838		
CH321-76A03 3R	24465530	24553530	located_end	24465530
	estimated_end	24553530		
CH321-76A11 3L	8009849	8097849	located_end	8009849
	estimated_end	8097849		
CH321-76A19 2R	11117097	11205097	estimated_end	11117097
	located_end	11205097		
CH321-76A20 3R	8939538	9027538	located_end	8939538
	estimated_end	9027538		
CH321-76A22 2R	888343	976343	located_end	888343
	estimated_end	976343		
CH321-76B14 2L	22523992	22611992	estimated_end	22523992
	located_end	22611992		
CH321-76B17 4	280350	368350	located_end	280350
	estimated_end	368350		
CH321-76B18 2L	20361257	20449257	located_end	20361257
	estimated_end	20449257		
CH321-76B22 3LHet	229493	317493	located_end	229493
	estimated_end	317493		

CH321-76B24 3R	1730200	1818200	estimated_end	1730200
	located_end	1818200		
CH321-76C07 ArmU	8794198	8882198	estimated_end	8794198
	located_end	8882198		
CH321-76C20 2L	11972533	12060533	located_end	11972533
	estimated_end	12060533		
CH321-76D04 ArmU	7893747	7981747	estimated_end	7893747
	located_end	7981747		
CH321-76D10 3L	19255650	19343650	estimated_end	19255650
	located_end	19343650		
CH321-76D15 ArmU	8005161	8093161	located_end	8005161
	estimated_end	8093161		
CH321-76D17 2R	13735817	13823817	located_end	13735817
	estimated_end	13823817		
CH321-76D23 X	7305816	7393816	located_end	7305816
	estimated_end	7393816		
CH321-76E10 2R	6776755	6864755	located_end	6776755
	estimated_end	6864755		
CH321-76E12 2R	16085195	16173195	estimated_end	16085195
	located_end	16173195		
CH321-76E18 3R	14317754	14405754	located_end	14317754
	estimated_end	14405754		
CH321-76E20 3R	20911951	20999951	located_end	20911951
	estimated_end	20999951		
CH321-76F11 X	11977387	12065387	located_end	11977387
	estimated_end	12065387		
CH321-76F13 2L	12741640	12829640	estimated_end	12741640
	located_end	12829640		
CH321-76F19 3L	18293981	18381981	located_end	18293981
	estimated_end	18381981		
CH321-76F23 2R	6227977	6315977	located_end	6227977
	estimated_end	6315977		
CH321-76G01 ArmU	7431091	7519091	located_end	7431091
	estimated_end	7519091		
CH321-76G08 3LHet	2133269	2221269	located_end	2133269
	estimated_end	2221269		
CH321-76G10 ArmU	4611137	4699137	estimated_end	4611137
	located_end	4699137		
CH321-76G14 3L	11424105	11512105	estimated_end	11424105
	located_end	11512105		
CH321-76G17 2R	17597371	17685371	estimated_end	17597371
	located_end	17685371		
CH321-76G20 3L	7759674	7847674	located_end	7759674
	estimated_end	7847674		
CH321-76G24 3L	18317797	18405797	estimated_end	18317797
	located_end	18405797		
CH321-76H04 2R	8937082	9025082	located_end	8937082
	estimated_end	9025082		
CH321-76H07 2L	21500059	21588059	estimated_end	21500059
	located_end	21588059		
CH321-76H08 3L	1067683	1155683	located_end	1067683
	estimated_end	1155683		
CH321-76H12 3R	10012296	10100296	estimated_end	10012296
	located_end	10100296		

CH321-76H13 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-76H20 3R	21445770	21533770	estimated_end	21445770
	located_end	21533770		
CH321-76H24 2L	15075483	15163483	estimated_end	15075483
	located_end	15163483		
CH321-76I09 3RHet	1715240	1803240	estimated_end	1715240
	located_end	1803240		
CH321-76I18 2R	13221552	13309552	located_end	13221552
	estimated_end	13309552		
CH321-76I19 X	16639371	16727371	located_end	16639371
	estimated_end	16727371		
CH321-76I24 3L	11314966	11402966	located_end	11314966
	estimated_end	11402966		
CH321-76J06 3R	10519956	10607956	estimated_end	10519956
	located_end	10607956		
CH321-76J13 2L	11747029	11835029	estimated_end	11747029
	located_end	11835029		
CH321-76J16 3L	10842805	10930805	located_end	10842805
	estimated_end	10930805		
CH321-76J20 3R	18115985	18203985	estimated_end	18115985
	located_end	18203985		
CH321-76J24 3LHet	988706	1076706	estimated_end	988706
	located_end	1076706		
CH321-76K06 2R	12783807	12871807	located_end	12783807
	estimated_end	12871807		
CH321-76K10 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-76K15 3L	6955656	7043656	estimated_end	6955656
	located_end	7043656		
CH321-76K17 3R	2063242	2151242	estimated_end	2063242
	located_end	2151242		
CH321-76K19 X	12386713	12474713	located_end	12386713
	estimated_end	12474713		
CH321-76K23 2L	3292761	3380761	estimated_end	3292761
	located_end	3380761		
CH321-76L04 2R	17065433	17153433	estimated_end	17065433
	located_end	17153433		
CH321-76L06 3R	17281007	17369007	located_end	17281007
	estimated_end	17369007		
CH321-76L12 2R	4012432	4100432	located_end	4012432
	estimated_end	4100432		
CH321-76L14 2R	8061826	8149826	estimated_end	8061826
	located_end	8149826		
CH321-76M02 3RHet	1354221	1442221	estimated_end	1354221
	located_end	1442221		
CH321-76M03 2R	-29594	58406	estimated_end	-29594
	located_end	58406		
CH321-76M04 3L	18887962	18975962	estimated_end	18887962
	located_end	18975962		
CH321-76M05 4	721205	809205	estimated_end	721205
	located_end	809205		
CH321-76M07 3R	1545656	1633656	estimated_end	1545656
	located_end	1633656		

CH321-76M09 2L	3734270	3822270	estimated_end	3734270
	located_end	3822270		
CH321-76M10 3R	24746517	24834517	located_end	24746517
	estimated_end	24834517		
CH321-76M11 2L	12923614	13011614	estimated_end	12923614
	located_end	13011614		
CH321-76M14 2L	4215636	4303636	located_end	4215636
	estimated_end	4303636		
CH321-76M16 2R	4217953	4305953	estimated_end	4217953
	located_end	4305953		
CH321-76M18 2L	1433777	1521777	located_end	1433777
	estimated_end	1521777		
CH321-76M19 3L	10237387	10325387	located_end	10237387
	estimated_end	10325387		
CH321-76N05 3L	6203420	6291420	located_end	6203420
	estimated_end	6291420		
CH321-76N06 2L	7886895	7974895	estimated_end	7886895
	located_end	7974895		
CH321-76N07 2L	6167977	6255977	estimated_end	6167977
	located_end	6255977		
CH321-76N08 2R	4643722	4731722	located_end	4643722
	estimated_end	4731722		
CH321-76N09 X	10070662	10158662	estimated_end	10070662
	located_end	10158662		
CH321-76N10 2L	18865595	18953595	estimated_end	18865595
	located_end	18953595		
CH321-76N12 2R	14374483	14462483	estimated_end	14374483
	located_end	14462483		
CH321-76N15 3L	9588221	9676221	estimated_end	9588221
	located_end	9676221		
CH321-76N17 2R	14539549	14627549	located_end	14539549
	estimated_end	14627549		
CH321-76N19 3L	15480810	15568810	estimated_end	15480810
	located_end	15568810		
CH321-76N24 2R	16379316	16467316	located_end	16379316
	estimated_end	16467316		
CH321-76O08 3L	18080588	18168588	located_end	18080588
	estimated_end	18168588		
CH321-76O09 2R	21051870	21139870	estimated_end	21051870
	located_end	21139870		
CH321-76O10 2L	7485168	7573168	located_end	7485168
	estimated_end	7573168		
CH321-76O15 2L	5011667	5099667	located_end	5011667
	estimated_end	5099667		
CH321-76O17 2R	18678123	18766123	estimated_end	18678123
	located_end	18766123		
CH321-76P13 3R	19375282	19463282	located_end	19375282
	estimated_end	19463282		
CH321-76P15 2R	12754134	12842134	estimated_end	12754134
	located_end	12842134		
CH321-76P16 3L	10786136	10874136	located_end	10786136
	estimated_end	10874136		
CH321-76P19 2L	15720640	15808640	estimated_end	15720640
	located_end	15808640		

CH321-76P23 2L	21901092	21989092	located_end	21901092
	estimated_end	21989092		
CH321-77A02 X	21018559	21106559	estimated_end	21018559
	located_end	21106559		
CH321-77A05 3L	21337031	21425031	estimated_end	21337031
	located_end	21425031		
CH321-77A18 3R	15342127	15430127	located_end	15342127
	estimated_end	15430127		
CH321-77B03 2L	21980005	22068005	estimated_end	21980005
	located_end	22068005		
CH321-77B06 2L	1793225	1881225	located_end	1793225
	estimated_end	1881225		
CH321-77B13 ArmU	9373780	9461780	estimated_end	9373780
	located_end	9461780		
CH321-77C02 3L	1435115	1523115	located_end	1435115
	estimated_end	1523115		
CH321-77C07 3L	20308598	20396598	located_end	20308598
	estimated_end	20396598		
CH321-77C08 X	392982	480982	estimated_end	392982
	located_end	480982		
CH321-77C10 3R	14786024	14874024	estimated_end	14786024
	located_end	14874024		
CH321-77C20 3R	9559963	9647963	estimated_end	9559963
	located_end	9647963		
CH321-77D03 2L	5460674	5548674	located_end	5460674
	estimated_end	5548674		
CH321-77D04 4	894315	982315	located_end	894315
	estimated_end	982315		
CH321-77D07 2L	11333075	11421075	located_end	11333075
	estimated_end	11421075		
CH321-77D13 3R	25250365	25338365	located_end	25250365
	estimated_end	25338365		
CH321-77D15 3L	12411524	12499524	located_end	12411524
	estimated_end	12499524		
CH321-77D17 3L	18711861	18799861	located_end	18711861
	estimated_end	18799861		
CH321-77E03 2R	2095356	2183356	estimated_end	2095356
	located_end	2183356		
CH321-77E05 2R	9762935	9850935	estimated_end	9762935
	located_end	9850935		
CH321-77E08 3L	16182477	16270477	located_end	16182477
	estimated_end	16270477		
CH321-77E10 3L	12732682	12820682	estimated_end	12732682
	located_end	12820682		
CH321-77E13 3L	11536703	11624703	estimated_end	11536703
	located_end	11624703		
CH321-77E24 2L	4681348	4769348	located_end	4681348
	estimated_end	4769348		
CH321-77F02 ArmU	4696140	4784140	located_end	4696140
	estimated_end	4784140		
CH321-77F10 X	5438781	5526781	estimated_end	5438781
	located_end	5526781		
CH321-77F11 3R	20765056	20853056	located_end	20765056
	estimated_end	20853056		

CH321-77F12 2R	10374777	10462777	estimated_end	10374777
	located_end	10462777		
CH321-77F19 2R	6974310	7062310	located_end	6974310
	estimated_end	7062310		
CH321-77G04 3L	19910941	19998941	estimated_end	19910941
	located_end	19998941		
CH321-77G05 3L	13095728	13183728	estimated_end	13095728
	located_end	13183728		
CH321-77G07 3R	10476907	10564907	located_end	10476907
	estimated_end	10564907		
CH321-77G14 3R	4335926	4423926	estimated_end	4335926
	located_end	4423926		
CH321-77G15 2R	4163674	4251674	estimated_end	4163674
	located_end	4251674		
CH321-77H02 3R	17966516	18054516	located_end	17966516
	estimated_end	18054516		
CH321-77H07 2R	8313724	8401724	located_end	8313724
	estimated_end	8401724		
CH321-77H10 4	136436	224436	estimated_end	136436
	located_end	224436		
CH321-77H14 3R	6726	94726	located_end	6726
	estimated_end	94726		
CH321-77I19 3R	355246	443246	located_end	355246
	estimated_end	443246		
CH321-77I20 2L	22368133	22456133	located_end	22368133
	estimated_end	22456133		
CH321-77I23 2R	9213599	9301599	located_end	9213599
	estimated_end	9301599		
CH321-77I24 3L	11365852	11453852	estimated_end	11365852
	located_end	11453852		
CH321-77J04 2L	14070342	14158342	located_end	14070342
	estimated_end	14158342		
CH321-77J10 3L	1812408	1900408	located_end	1812408
	estimated_end	1900408		
CH321-77J16 3L	23258288	23346288	estimated_end	23258288
	located_end	23346288		
CH321-77J23 2L	10898810	10986810	located_end	10898810
	estimated_end	10986810		
CH321-77K03 3L	23021052	23109052	located_end	23021052
	estimated_end	23109052		
CH321-77K08 2R	12352992	12440992	estimated_end	12352992
	located_end	12440992		
CH321-77K09 X	7121794	7209794	estimated_end	7121794
	located_end	7209794		
CH321-77K11 3R	23627872	23715872	estimated_end	23627872
	located_end	23715872		
CH321-77K12 3R	9662657	9750657	located_end	9662657
	estimated_end	9750657		
CH321-77K16 X	19119508	19207508	located_end	19119508
	estimated_end	19207508		
CH321-77K21 X	21450731	21538731	located_end	21450731
	estimated_end	21538731		
CH321-77L16 X	16878301	16966301	estimated_end	16878301
	located_end	16966301		

CH321-77M13 3R	16513616	16601616	located_end	16513616
	estimated_end	16601616		
CH321-77M19 2L	18666591	18754591	located_end	18666591
	estimated_end	18754591		
CH321-77M21 ArmU	1881618	1969618	estimated_end	1881618
	located_end	1969618		
CH321-77M24 2LHet	114921	202921	estimated_end	114921
	located_end	202921		
CH321-77N02 2R	218214	306214	located_end	218214
	estimated_end	306214		
CH321-77N05 2RHet	955587	1043587	estimated_end	955587
	located_end	1043587		
CH321-77N17 3R	23746678	23834678	estimated_end	23746678
	located_end	23834678		
CH321-77N24 ArmU	133160	221160	estimated_end	133160
	located_end	221160		
CH321-77O10 3L	22268240	22356240	located_end	22268240
	estimated_end	22356240		
CH321-77P03 3R	25027938	25115938	located_end	25027938
	estimated_end	25115938		
CH321-77P09 2R	8591878	8679878	located_end	8591878
	estimated_end	8679878		
CH321-77P13 3L	13552758	13640758	estimated_end	13552758
	located_end	13640758		
CH321-77P16 X	18781474	18869474	estimated_end	18781474
	located_end	18869474		
CH321-77P18 X	15399560	15487560	located_end	15399560
	estimated_end	15487560		
CH321-78A02 X	3807602	3895602	located_end	3807602
	estimated_end	3895602		
CH321-78A03 4	897833	985833	estimated_end	897833
	located_end	985833		
CH321-78A07 3R	25726314	25814314	estimated_end	25726314
	located_end	25814314		
CH321-78A10 X	11017436	11105436	located_end	11017436
	estimated_end	11105436		
CH321-78A11 3L	9953992	10041992	estimated_end	9953992
	located_end	10041992		
CH321-78A17 3R	6125800	6213800	located_end	6125800
	estimated_end	6213800		
CH321-78A20 3R	20658719	20746719	located_end	20658719
	estimated_end	20746719		
CH321-78A22 3R	7829979	7917979	located_end	7829979
	estimated_end	7917979		
CH321-78A24 2R	3819515	3907515	located_end	3819515
	estimated_end	3907515		
CH321-78B07 3R	2900024	2988024	located_end	2900024
	estimated_end	2988024		
CH321-78C06 3R	769456	857456	estimated_end	769456
	located_end	857456		
CH321-78C08 2L	12576281	12664281	estimated_end	12576281
	located_end	12664281		
CH321-78C13 3LHet	2460776	2548776	located_end	2460776
	estimated_end	2548776		

CH321-78C14 2R	2016908	2104908	estimated_end	2016908
	located_end	2104908		
CH321-78C16 2L	19216155	19304155	estimated_end	19216155
	located_end	19304155		
CH321-78C21 2L	1958479	2046479	estimated_end	1958479
	located_end	2046479		
CH321-78C22 X	21452761	21540761	located_end	21452761
	estimated_end	21540761		
CH321-78D01 2R	5278803	5366803	estimated_end	5278803
	located_end	5366803		
CH321-78D05 2R	6797376	6885376	located_end	6797376
	estimated_end	6885376		
CH321-78D10 X	7885386	7973386	estimated_end	7885386
	located_end	7973386		
CH321-78D17 2L	15611300	15699300	located_end	15611300
	estimated_end	15699300		
CH321-78D19 2R	13177987	13265987	located_end	13177987
	estimated_end	13265987		
CH321-78D20 3R	3235854	3323854	located_end	3235854
	estimated_end	3323854		
CH321-78D22 2L	3211966	3299966	located_end	3211966
	estimated_end	3299966		
CH321-78D23 3R	4979308	5067308	estimated_end	4979308
	located_end	5067308		
CH321-78E03 2L	2333003	2421003	located_end	2333003
	estimated_end	2421003		
CH321-78E13 X	12351198	12439198	estimated_end	12351198
	located_end	12439198		
CH321-78E14 3R	26663226	26751226	located_end	26663226
	estimated_end	26751226		
CH321-78E15 3L	14646397	14734397	located_end	14646397
	estimated_end	14734397		
CH321-78E17 3L	18129034	18217034	estimated_end	18129034
	located_end	18217034		
CH321-78E18 3R	19994954	20082954	located_end	19994954
	estimated_end	20082954		
CH321-78E19 3L	17444922	17532922	located_end	17444922
	estimated_end	17532922		
CH321-78E20 2R	16716318	16804318	located_end	16716318
	estimated_end	16804318		
CH321-78E21 3R	2292503	2380503	located_end	2292503
	estimated_end	2380503		
CH321-78E22 2L	22053694	22141694	estimated_end	22053694
	located_end	22141694		
CH321-78E23 2L	10860396	10948396	located_end	10860396
	estimated_end	10948396		
CH321-78F01 2R	2633764	2721764	located_end	2633764
	estimated_end	2721764		
CH321-78F02 2L	22364555	22452555	estimated_end	22364555
	located_end	22452555		
CH321-78F03 2L	10929354	11017354	estimated_end	10929354
	located_end	11017354		
CH321-78F06 X	19286853	19374853	located_end	19286853
	estimated_end	19374853		

CH321-78F10 3R	955330	1043330	located_end	955330
	estimated_end	1043330		
CH321-78F12 2L	6861892	6949892	estimated_end	6861892
	located_end	6949892		
CH321-78F14 3R	24350949	24438949	located_end	24350949
	estimated_end	24438949		
CH321-78F16 3R	10910619	10998619	estimated_end	10910619
	located_end	10998619		
CH321-78F17 3R	15058622	15146622	located_end	15058622
	estimated_end	15146622		
CH321-78F21 2L	11530063	11618063	located_end	11530063
	estimated_end	11618063		
CH321-78F24 3R	18064806	18152806	estimated_end	18064806
	located_end	18152806		
CH321-78G07 X	7116525	7204525	estimated_end	7116525
	located_end	7204525		
CH321-78G09 2R	14626442	14714442	located_end	14626442
	estimated_end	14714442		
CH321-78G10 X	11291565	11379565	located_end	11291565
	estimated_end	11379565		
CH321-78G17 2L	3470899	3558899	estimated_end	3470899
	located_end	3558899		
CH321-78G21 2R	13925268	14013268	located_end	13925268
	estimated_end	14013268		
CH321-78G23 3L	833184	921184	estimated_end	833184
	located_end	921184		
CH321-78H03 2R	599137	687137	estimated_end	599137
	located_end	687137		
CH321-78H04 2R	3236738	3324738	located_end	3236738
	estimated_end	3324738		
CH321-78H06 X	9172567	9260567	located_end	9172567
	estimated_end	9260567		
CH321-78H07 2R	17185826	17273826	estimated_end	17185826
	located_end	17273826		
CH321-78H08 2L	17409206	17497206	located_end	17409206
	estimated_end	17497206		
CH321-78H10 3L	2578944	2666944	estimated_end	2578944
	located_end	2666944		
CH321-78H13 X	13992998	14080998	located_end	13992998
	estimated_end	14080998		
CH321-78H14 2L	12188490	12276490	estimated_end	12188490
	located_end	12276490		
CH321-78H16 X	12404700	12492700	estimated_end	12404700
	located_end	12492700		
CH321-78H19 3L	6627892	6715892	estimated_end	6627892
	located_end	6715892		
CH321-78I01 2RHet	1207701	1295701	estimated_end	1207701
	located_end	1295701		
CH321-78I03 3RHet	2069767	2157767	estimated_end	2069767
	located_end	2157767		
CH321-78I06 3L	11958467	12046467	estimated_end	11958467
	located_end	12046467		
CH321-78I11 2L	2234805	2322805	located_end	2234805
	estimated_end	2322805		

CH321-78I15 3RHet	1461579	1549579	located_end	1461579
	estimated_end	1549579		
CH321-78I16 3R	2854810	2942810	estimated_end	2854810
	located_end	2942810		
CH321-78I17 2R	6322295	6410295	located_end	6322295
	estimated_end	6410295		
CH321-78I21 X	5044401	5132401	located_end	5044401
	estimated_end	5132401		
CH321-78I23 2R	2731099	2819099	located_end	2731099
	estimated_end	2819099		
CH321-78I24 3R	886424	974424	estimated_end	886424
	located_end	974424		
CH321-78J05 3L	14143433	14231433	located_end	14143433
	estimated_end	14231433		
CH321-78J15 2R	12676806	12764806	located_end	12676806
	estimated_end	12764806		
CH321-78J21 2L	9672894	9760894	estimated_end	9672894
	located_end	9760894		
CH321-78J22 3R	8129480	8217480	estimated_end	8129480
	located_end	8217480		
CH321-78J23 2R	2505830	2593830	located_end	2505830
	estimated_end	2593830		
CH321-78K03 3R	4257245	4345245	located_end	4257245
	estimated_end	4345245		
CH321-78K14 2L	12460977	12548977	located_end	12460977
	estimated_end	12548977		
CH321-78K17 X	17645475	17733475	estimated_end	17645475
	located_end	17733475		
CH321-78K21 ArmU	5735880	5823880	estimated_end	5735880
	located_end	5823880		
CH321-78L16 2L	5341251	5429251	estimated_end	5341251
	located_end	5429251		
CH321-78L18 2R	1873884	1961884	located_end	1873884
	estimated_end	1961884		
CH321-78L22 2R	10754667	10842667	estimated_end	10754667
	located_end	10842667		
CH321-78M01 3RHet	1853860	1941860	estimated_end	1853860
	located_end	1941860		
CH321-78M02 3L	16786028	16874028	estimated_end	16786028
	located_end	16874028		
CH321-78M03 3R	4257266	4345266	located_end	4257266
	estimated_end	4345266		
CH321-78M14 3L	15630726	15718726	located_end	15630726
	estimated_end	15718726		
CH321-78M18 3L	10278676	10366676	located_end	10278676
	estimated_end	10366676		
CH321-78N03 X	11126958	11214958	located_end	11126958
	estimated_end	11214958		
CH321-78N04 2R	13400764	13488764	estimated_end	13400764
	located_end	13488764		
CH321-78N05 3L	23014395	23102395	located_end	23014395
	estimated_end	23102395		
CH321-78N09 3L	17648931	17736931	located_end	17648931
	estimated_end	17736931		

CH321-78N22 2R	8357768	8445768	located_end	8357768
estimated_end	8445768			
CH321-78O02 2R	2467162	2555162	estimated_end	2467162
located_end	2555162			
CH321-78O03 2R	10301176	10389176	estimated_end	10301176
located_end	10389176			
CH321-78O04 2R	5731921	5819921	located_end	5731921
estimated_end	5819921			
CH321-78O10 X	9946772	10034772	located_end	9946772
estimated_end	10034772			
CH321-78O11 3R	386081	474081	located_end	386081
estimated_end	474081			
CH321-78O15 X	18971493	19059493	estimated_end	18971493
located_end	19059493			
CH321-78O17 2R	4900614	4988614	estimated_end	4900614
located_end	4988614			
CH321-78O18 3R	3954318	4042318	estimated_end	3954318
located_end	4042318			
CH321-78O19 X	7665370	7753370	estimated_end	7665370
located_end	7753370			
CH321-78O20 X	13130926	13218926	located_end	13130926
estimated_end	13218926			
CH321-78O21 2L	17869811	17957811	located_end	17869811
estimated_end	17957811			
CH321-78O22 3L	4388614	4476614	estimated_end	4388614
located_end	4476614			
CH321-78O24 3L	16808082	16896082	estimated_end	16808082
located_end	16896082			
CH321-78P04 2L	4020011	4108011	estimated_end	4020011
located_end	4108011			
CH321-78P05 X	8441283	8529283	located_end	8441283
estimated_end	8529283			
CH321-78P14 2RHet	925177	1013177	located_end	925177
estimated_end	1013177			
CH321-78P16 2R	6771763	6859763	estimated_end	6771763
located_end	6859763			
CH321-78P20 3L	16325364	16413364	estimated_end	16325364
located_end	16413364			
CH321-78P22 2L	15790534	15878534	estimated_end	15790534
located_end	15878534			
CH321-78P23 2R	10313310	10401310	located_end	10313310
estimated_end	10401310			
CH321-79A01 X	2597699	2685699	estimated_end	2597699
located_end	2685699			
CH321-79B05 ArmU	9708223	9796223	estimated_end	9708223
located_end	9796223			
CH321-79B20 2L	12435224	12523224	located_end	12435224
estimated_end	12523224			
CH321-79B22 XHet	78394	166394	estimated_end	78394
located_end	166394		located_end	
CH321-79B24 2L	16409674	16497674	estimated_end	16409674
located_end	16497674			
CH321-79C04 3L	1213555	1301555	located_end	1213555
estimated_end	1301555			

CH321-79C05 3R	622749	710749	estimated_end	622749
	located_end	710749		
CH321-79C09 3L	4651331	4739331	located_end	4651331
	estimated_end	4739331		
CH321-79C10 3R	19015374	19103374	estimated_end	19015374
	located_end	19103374		
CH321-79C12 X	11498395	11586395	located_end	11498395
	estimated_end	11586395		
CH321-79C20 3L	8731971	8819971	located_end	8731971
	estimated_end	8819971		
CH321-79D08 3R	20811034	20899034	located_end	20811034
	estimated_end	20899034		
CH321-79D09 2L	10639365	10727365	estimated_end	10639365
	located_end	10727365		
CH321-79D12 3R	431947	519947	located_end	431947
	estimated_end	519947		
CH321-79D13 3L	18748099	18836099	located_end	18748099
	estimated_end	18836099		
CH321-79D15 2L	15798418	15886418	estimated_end	15798418
	located_end	15886418		
CH321-79D17 3L	5690063	5778063	estimated_end	5690063
	located_end	5778063		
CH321-79E06 3L	22303007	22391007	estimated_end	22303007
	located_end	22391007		
CH321-79E09 2R	12028945	12116945	located_end	12028945
	estimated_end	12116945		
CH321-79E10 2R	4486116	4574116	located_end	4486116
	estimated_end	4574116		
CH321-79E13 2L	8378982	8466982	estimated_end	8378982
	located_end	8466982		
CH321-79E17 3R	6291930	6379930	located_end	6291930
	estimated_end	6379930		
CH321-79F05 3L	21878399	21966399	located_end	21878399
	estimated_end	21966399		
CH321-79F19 3L	7517134	7605134	estimated_end	7517134
	located_end	7605134		
CH321-79G13 3L	10790705	10878705	located_end	10790705
	estimated_end	10878705		
CH321-79G15 X	21949386	22037386	located_end	21949386
	estimated_end	22037386		
CH321-79G18 3L	10883299	10971299	located_end	10883299
	estimated_end	10971299		
CH321-79G20 X	5619056	5707056	estimated_end	5619056
	located_end	5707056		
CH321-79H05 3L	5238534	5326534	estimated_end	5238534
	located_end	5326534		
CH321-79H12 X	4026366	4114366	estimated_end	4026366
	located_end	4114366		
CH321-79H15 3LHet	846087	934087	estimated_end	846087
	located_end	934087		
CH321-79H21 X	12029794	12117794	located_end	12029794
	estimated_end	12117794		
CH321-79H22 3RHet	1849436	1937436	estimated_end	1849436
	located_end	1937436		

CH321-79I11 3R	21182616	21270616	estimated_end	21182616
	located_end	21270616		
CH321-79I19 3R	20928617	21016617	located_end	20928617
	estimated_end	21016617		
CH321-79J10 2R	12055116	12143116	located_end	12055116
	estimated_end	12143116		
CH321-79J16 X	21420816	21508816	estimated_end	21420816
	located_end	21508816		
CH321-79J17 X	21002774	21090774	estimated_end	21002774
	located_end	21090774		
CH321-79K05 2R	2162732	2250732	located_end	2162732
	estimated_end	2250732		
CH321-79K06 3R	5558767	5646767	estimated_end	5558767
	located_end	5646767		
CH321-79K12 3R	6557440	6645440	located_end	6557440
	estimated_end	6645440		
CH321-79K16 3L	5585415	5673415	located_end	5585415
	estimated_end	5673415		
CH321-79K17 4	389208	477208	estimated_end	389208
	located_end	477208		
CH321-79K18 2L	4256232	4344232	located_end	4256232
	estimated_end	4344232		
CH321-79L13 2L	16732193	16820193	estimated_end	16732193
	located_end	16820193		
CH321-79L24 2R	14845622	14933622	located_end	14845622
	estimated_end	14933622		
CH321-79M10 X	6270462	6358462	located_end	6270462
	estimated_end	6358462		
CH321-79M17 X	21169152	21257152	estimated_end	21169152
	located_end	21257152		
CH321-79M22 2LHet	181736	269736	located_end	181736
	estimated_end	269736		
CH321-79M23 2LHet	181736	269736	located_end	181736
	estimated_end	269736		
CH321-79N12 3LHet	1866848	1954848	located_end	1866848
	estimated_end	1954848		
CH321-79N14 2L	3711434	3799434	located_end	3711434
	estimated_end	3799434		
CH321-79N15 2RHet	1418098	1506098	located_end	1418098
	estimated_end	1506098		
CH321-79N19 3R	13815034	13903034	estimated_end	13815034
	located_end	13903034		
CH321-79O05 2R	9361518	9449518	estimated_end	9361518
	located_end	9449518		
CH321-79O11 ArmU	4695973	4783973	located_end	4695973
	estimated_end	4783973		
CH321-79O24 2L	12598463	12686463	located_end	12598463
	estimated_end	12686463		
CH321-79P04 2RHet	318905	406905	located_end	318905
	estimated_end	406905		
CH321-79P05 ArmU	3395933	3483933	located_end	3395933
	estimated_end	3483933		
CH321-79P13 2L	19095004	19183004	estimated_end	19095004
	located_end	19183004		

CH321-79P14 2L	21254299	21342299	located_end	21254299
	estimated_end	21342299		
CH321-79P16 X	15872964	15960964	estimated_end	15872964
	located_end	15960964		
CH321-79P18 2RHet	1579626	1667626	estimated_end	1579626
	located_end	1667626		
CH321-79P19 3L	18291733	18379733	located_end	18291733
	estimated_end	18379733		
CH321-80A01 X	2599179	2687179	estimated_end	2599179
	located_end	2687179		
CH321-80A02 2R	13475632	13563632	estimated_end	13475632
	located_end	13563632		
CH321-80A05 X	6487543	6575543	estimated_end	6487543
	located_end	6575543		
CH321-80A08 ArmU	9617995	9705995	estimated_end	9617995
	located_end	9705995		
CH321-80A22 2R	5382463	5470463	estimated_end	5382463
	located_end	5470463		
CH321-80B03 3L	17046896	17134896	located_end	17046896
	estimated_end	17134896		
CH321-80B13 2R	16981426	17069426	estimated_end	16981426
	located_end	17069426		
CH321-80B19 3L	15154350	15242350	located_end	15154350
	estimated_end	15242350		
CH321-80B22 X	12131950	12219950	located_end	12131950
	estimated_end	12219950		
CH321-80C07 2LHet	275644	363644	located_end	275644
	estimated_end	363644		
CH321-80C13 3L	13814447	13902447	estimated_end	13814447
	located_end	13902447		
CH321-80D13 3R	26442905	26530905	estimated_end	26442905
	located_end	26530905		
CH321-80E08 X	13849914	13937914	located_end	13849914
	estimated_end	13937914		
CH321-80E13 4	502585	590585	located_end	502585
	estimated_end	590585		
CH321-80F04 X	12053233	12141233	estimated_end	12053233
	located_end	12141233		
CH321-80F12 2L	9612869	9700869	estimated_end	9612869
	located_end	9700869		
CH321-80G16 X	15393050	15481050	located_end	15393050
	estimated_end	15481050		
CH321-80G19 3R	22401154	22489154	estimated_end	22401154
	located_end	22489154		
CH321-80H08 ArmU	9708127	9796127	estimated_end	9708127
	located_end	9796127		
CH321-80H21 2L	11805306	11893306	estimated_end	11805306
	located_end	11893306		
CH321-80I05 X	3037072	3125072	located_end	3037072
	estimated_end	3125072		
CH321-80I24 X	14543121	14631121	located_end	14543121
	estimated_end	14631121		
CH321-80J03 ArmU	5665104	5753104	estimated_end	5665104
	located_end	5753104		

CH321-80J23 2L	20779071	20867071	located_end	20779071
	estimated_end	20867071		
CH321-80K13 2R	20666611	20754611	estimated_end	20666611
	located_end	20754611		
CH321-80K23 ArmU	9708196	9796196	estimated_end	9708196
	located_end	9796196		
CH321-80L02 2L	22966240	23054240	located_end	22966240
	estimated_end	23054240		
CH321-80L17 3R	16498488	16586488	located_end	16498488
	estimated_end	16586488		
CH321-80M02 X	3514887	3602887	estimated_end	3514887
	located_end	3602887		
CH321-80M05 2R	9330597	9418597	estimated_end	9330597
	located_end	9418597		
CH321-80M09 2R	11019703	11107703	located_end	11019703
	estimated_end	11107703		
CH321-80M15 X	6905806	6993806	estimated_end	6905806
	located_end	6993806		
CH321-80M16 2R	543543	631543	estimated_end	543543
	located_end	631543		
CH321-80M19 3L	15567216	15655216	located_end	15567216
	estimated_end	15655216		
CH321-80N04 X	18310384	18398384	estimated_end	18310384
	located_end	18398384		
CH321-80N06 2L	15785690	15873690	located_end	15785690
	estimated_end	15873690		
CH321-80N07 2L	17828928	17916928	estimated_end	17828928
	located_end	17916928		
CH321-80N15 2L	3913430	4001430	located_end	3913430
	estimated_end	4001430		
CH321-80O07 3L	23250372	23338372	located_end	23250372
	estimated_end	23338372		
CH321-80O11 3R	20927726	21015726	estimated_end	20927726
	located_end	21015726		
CH321-80O20 X	15383098	15471098	located_end	15383098
	estimated_end	15471098		
CH321-80P07 2R	386197	474197	estimated_end	386197
	located_end	474197		
CH321-80P10 3L	10786439	10874439	located_end	10786439
	estimated_end	10874439		
CH321-80P12 3R	13529106	13617106	located_end	13529106
	estimated_end	13617106		
CH321-80P14 2L	372473	460473	estimated_end	372473
	located_end	460473		
CH321-80P15 3R	4393203	4481203	located_end	4393203
	estimated_end	4481203		
CH321-81A02 ArmU	7190437	7278437	located_end	7190437
	estimated_end	7278437		
CH321-81A03 3R	21957886	22045886	located_end	21957886
	estimated_end	22045886		
CH321-81A13 X	7833945	7921945	located_end	7833945
	estimated_end	7921945		
CH321-81B01 3L	10500570	10588570	located_end	10500570
	estimated_end	10588570		

CH321-81B06 2R	9644745	9732745	estimated_end	9644745
	located_end	9732745		
CH321-81B09 2L	8685131	8773131	estimated_end	8685131
	located_end	8773131		
CH321-81B17 3R	2066823	2154823	estimated_end	2066823
	located_end	2154823		
CH321-81B18 X	18183481	18271481	estimated_end	18183481
	located_end	18271481		
CH321-81B20 3L	5402669	5490669	located_end	5402669
	estimated_end	5490669		
CH321-81C01 2R	14229060	14317060	located_end	14229060
	estimated_end	14317060		
CH321-81C04 2L	14939419	15027419	estimated_end	14939419
	located_end	15027419		
CH321-81C07 3R	20901324	20989324	located_end	20901324
	estimated_end	20989324		
CH321-81C10 3R	26002905	26090905	located_end	26002905
	estimated_end	26090905		
CH321-81C11 3L	162957	250957	estimated_end	162957
	located_end	250957		
CH321-81D04 3L	24047787	24135787	located_end	24047787
	estimated_end	24135787		
CH321-81D12 3R	21033036	21121036	located_end	21033036
	estimated_end	21121036		
CH321-81D18 2L	11859392	11947392	located_end	11859392
	estimated_end	11947392		
CH321-81D21 3L	18351910	18439910	located_end	18351910
	estimated_end	18439910		
CH321-81D22 X	9775102	9863102	estimated_end	9775102
	located_end	9863102		
CH321-81D24 ArmU	517762	605762	located_end	517762
	estimated_end	605762		
CH321-81E08 2R	20294103	20382103	estimated_end	20294103
	located_end	20382103		
CH321-81E14 2R	8074285	8162285	located_end	8074285
	estimated_end	8162285		
CH321-81E20 X	15874537	15962537	estimated_end	15874537
	located_end	15962537		
CH321-81E21 3R	24736847	24824847	estimated_end	24736847
	located_end	24824847		
CH321-81E23 3R	8112209	8200209	located_end	8112209
	estimated_end	8200209		
CH321-81F01 3L	16819491	16907491	estimated_end	16819491
	located_end	16907491		
CH321-81F03 2L	915081	1003081	located_end	915081
	estimated_end	1003081		
CH321-81F05 3L	14332740	14420740	estimated_end	14332740
	located_end	14420740		
CH321-81F09 X	10462401	10550401	estimated_end	10462401
	located_end	10550401		
CH321-81F12 3R	2826581	2914581	estimated_end	2826581
	located_end	2914581		
CH321-81F15 2L	15801632	15889632	located_end	15801632
	estimated_end	15889632		

CH321-81F16 2R	5485155	5573155	located_end 5485155
estimated_end	5573155		
CH321-81F17 2L	7527781	7615781	located_end 7527781
estimated_end	7615781		
CH321-81F18 3R	14624360	14712360	estimated_end 14624360
located_end	14712360		
CH321-81F19 3R	1957974	2045974	estimated_end 1957974
located_end	2045974		
CH321-81F20 3L	3533824	3621824	located_end 3533824
estimated_end	3621824		
CH321-81F21 3R	23217572	23305572	estimated_end 23217572
located_end	23305572		
CH321-81F22 3L	3960262	4048262	located_end 3960262
estimated_end	4048262		
CH321-81F23 2R	6676614	6764614	estimated_end 6676614
located_end	6764614		
CH321-81G05 3RHet	1842254	1930254	located_end 1842254
estimated_end	1930254		
CH321-81G06 3R	19511149	19599149	located_end 19511149
estimated_end	19599149		
CH321-81G08 2R	14762651	14850651	located_end 14762651
estimated_end	14850651		
CH321-81G12 3L	2240237	2328237	located_end 2240237
estimated_end	2328237		
CH321-81G14 4	1130263	1218263	estimated_end 1130263
located_end	1218263		
CH321-81G17 3L	8878722	8966722	estimated_end 8878722
located_end	8966722		
CH321-81H03 2L	7221474	7309474	located_end 7221474
estimated_end	7309474		
CH321-81H05 3L	23281054	23369054	located_end 23281054
estimated_end	23369054		
CH321-81H08 2L	14209911	14297911	estimated_end 14209911
located_end	14297911		
CH321-81H14 3R	27675662	27763662	located_end 27675662
estimated_end	27763662		
CH321-81H16 3R	23185017	23273017	estimated_end 23185017
located_end	23273017		
CH321-81H21 3R	17625510	17713510	located_end 17625510
estimated_end	17713510		
CH321-81I01 2R	9558847	9646847	located_end 9558847
estimated_end	9646847		
CH321-81I02 2L	568612	656612	located_end 568612
estimated_end	656612		
CH321-81I05 2R	2515047	2603047	located_end 2515047
estimated_end	2603047		
CH321-81I06 2R	7600206	7688206	estimated_end 7600206
located_end	7688206		
CH321-81I10 2R	12564673	12652673	located_end 12564673
estimated_end	12652673		
CH321-81I13 ArmU	9708223	9796223	estimated_end 9708223
located_end	9796223		
CH321-81I15 2R	1202615	1290615	located_end 1202615
estimated_end	1290615		

CH321-81I21 3R	19128188	19216188	located_end	19128188
	estimated_end	19216188		
CH321-81I22 2R	12770044	12858044	estimated_end	12770044
	located_end	12858044		
CH321-81J06 3R	15231689	15319689	located_end	15231689
	estimated_end	15319689		
CH321-81J13 ArmU	5438647	5526647	estimated_end	5438647
	located_end	5526647		
CH321-81J16 X	10337489	10425489	located_end	10337489
	estimated_end	10425489		
CH321-81J17 2L	9186333	9274333	located_end	9186333
	estimated_end	9274333		
CH321-81J18 X	2230427	2318427	located_end	2230427
	estimated_end	2318427		
CH321-81J22 2L	18266527	18354527	estimated_end	18266527
	located_end	18354527		
CH321-81J23 3L	18414187	18502187	located_end	18414187
	estimated_end	18502187		
CH321-81J24 3L	9532875	9620875	estimated_end	9532875
	located_end	9620875		
CH321-81K04 2RHet	1258597	1346597	located_end	1258597
	estimated_end	1346597		
CH321-81K06 3L	11760987	11848987	located_end	11760987
	estimated_end	11848987		
CH321-81K11 2L	15128105	15216105	located_end	15128105
	estimated_end	15216105		
CH321-81K12 3LHet	942617	1030617	located_end	942617
	estimated_end	1030617		
CH321-81K13 3R	22587681	22675681	estimated_end	22587681
	located_end	22675681		
CH321-81K17 3R	19853315	19941315	located_end	19853315
	estimated_end	19941315		
CH321-81K20 3L	17090041	17178041	estimated_end	17090041
	located_end	17178041		
CH321-81K21 3RHet	1939885	2027885	estimated_end	1939885
	located_end	2027885		
CH321-81L01 3RHet	1236052	1324052	located_end	1236052
	estimated_end	1324052		
CH321-81L04 3R	3016680	3104680	located_end	3016680
	estimated_end	3104680		
CH321-81L06 3L	9626317	9714317	located_end	9626317
	estimated_end	9714317		
CH321-81L08 3L	24043694	24131694	located_end	24043694
	estimated_end	24131694		
CH321-81L09 2L	13645576	13733576	estimated_end	13645576
	located_end	13733576		
CH321-81L12 X	8132609	8220609	located_end	8132609
	estimated_end	8220609		
CH321-81L14 3L	17734004	17822004	located_end	17734004
	estimated_end	17822004		
CH321-81L18 2R	13909102	13997102	estimated_end	13909102
	located_end	13997102		
CH321-81L19 2L	19794897	19882897	estimated_end	19794897
	located_end	19882897		

CH321-81L21 2L	6494694	6582694	estimated_end	6494694
	located_end	6582694		
CH321-81L22 2R	6618595	6706595	estimated_end	6618595
	located_end	6706595		
CH321-81L24 3R	15748711	15836711	estimated_end	15748711
	located_end	15836711		
CH321-81M07 3L	10186160	10274160	estimated_end	10186160
	located_end	10274160		
CH321-81M08 3L	10265076	10353076	estimated_end	10265076
	located_end	10353076		
CH321-81M14 3L	7492088	7580088	estimated_end	7492088
	located_end	7580088		
CH321-81M18 3L	10191157	10279157	estimated_end	10191157
	located_end	10279157		
CH321-81M19 3R	22117691	22205691	located_end	22117691
	estimated_end	22205691		
CH321-81M20 3R	342481	430481	estimated_end	342481
	located_end	430481		
CH321-81N02 3R	1840135	1928135	estimated_end	1840135
	located_end	1928135		
CH321-81N08 3L	18013418	18101418	estimated_end	18013418
	located_end	18101418		
CH321-81N15 2R	15207317	15295317	estimated_end	15207317
	located_end	15295317		
CH321-81N18 3L	3561729	3649729	located_end	3561729
	estimated_end	3649729		
CH321-81O01 2L	22189736	22277736	located_end	22189736
	estimated_end	22277736		
CH321-81O07 2R	6042291	6130291	located_end	6042291
	estimated_end	6130291		
CH321-81O08 3R	21102022	21190022	located_end	21102022
	estimated_end	21190022		
CH321-81O10 3L	14769585	14857585	estimated_end	14769585
	located_end	14857585		
CH321-81O12 3L	10118292	10206292	located_end	10118292
	estimated_end	10206292		
CH321-81O18 3L	5519558	5607558	located_end	5519558
	estimated_end	5607558		
CH321-81O19 3R	12041562	12129562	located_end	12041562
	estimated_end	12129562		
CH321-81O20 2L	762539	850539	estimated_end	762539
	located_end	850539		
CH321-81O24 3R	21372943	21460943	located_end	21372943
	estimated_end	21460943		
CH321-81P02 3R	23521134	23609134	estimated_end	23521134
	located_end	23609134		
CH321-81P08 3L	6142852	6230852	estimated_end	6142852
	located_end	6230852		
CH321-81P19 3R	10362172	10450172	located_end	10362172
	estimated_end	10450172		
CH321-81P20 2L	15029828	15117828	located_end	15029828
	estimated_end	15117828		
CH321-82A03 2L	6398510	6486510	estimated_end	6398510
	located_end	6486510		

CH321-82A06 3L	19136316	19224316	located_end	19136316
	estimated_end	19224316		
CH321-82A16 X	7212428	7300428	estimated_end	7212428
	located_end	7300428		
CH321-82A17 2L	1989295	2077295	estimated_end	1989295
	located_end	2077295		
CH321-82A19 3L	23233328	23321328	located_end	23233328
	estimated_end	23321328		
CH321-82A23 3L	20900655	20988655	estimated_end	20900655
	located_end	20988655		
CH321-82B04 2L	15508575	15596575	located_end	15508575
	estimated_end	15596575		
CH321-82B23 2R	7464808	7552808	located_end	7464808
	estimated_end	7552808		
CH321-82C05 2R	18538404	18626404	estimated_end	18538404
	located_end	18626404		
CH321-82C07 3L	8777988	8865988	estimated_end	8777988
	located_end	8865988		
CH321-82C12 ArmU	2977186	3065186	located_end	2977186
	estimated_end	3065186		
CH321-82C18 3L	23151335	23239335	estimated_end	23151335
	located_end	23239335		
CH321-82C19 2R	4531085	4619085	located_end	4531085
	estimated_end	4619085		
CH321-82C24 2R	9453136	9541136	located_end	9453136
	estimated_end	9541136		
CH321-82D19 3L	12657264	12745264	estimated_end	12657264
	located_end	12745264		
CH321-82D20 3R	2882956	2970956	estimated_end	2882956
	located_end	2970956		
CH321-82D22 X	14931460	15019460	estimated_end	14931460
	located_end	15019460		
CH321-82E13 2R	5869191	5957191	located_end	5869191
	estimated_end	5957191		
CH321-82E18 X	8280319	8368319	located_end	8280319
	estimated_end	8368319		
CH321-82E19 2L	12133432	12221432	located_end	12133432
	estimated_end	12221432		
CH321-82E21 3R	25635388	25723388	located_end	25635388
	estimated_end	25723388		
CH321-82F06 3LHet	683315	771315	estimated_end	683315
	located_end	771315		
CH321-82F07 3R	8177121	8265121	located_end	8177121
	estimated_end	8265121		
CH321-82F15 2R	4793786	4881786	located_end	4793786
	estimated_end	4881786		
CH321-82F16 3L	9666805	9754805	located_end	9666805
	estimated_end	9754805		
CH321-82F17 3L	5656637	5744637	estimated_end	5656637
	located_end	5744637		
CH321-82F18 3RHet	540858	628858	estimated_end	540858
	located_end	628858		
CH321-82F20 2R	19825915	19913915	located_end	19825915
	estimated_end	19913915		

CH321-82F21 2L	1180296	1268296	estimated_end	1180296
	located_end	1268296		
CH321-82F22 2R	5210934	5298934	located_end	5210934
	estimated_end	5298934		
CH321-82F23 X	19905811	19993811	estimated_end	19905811
	located_end	19993811		
CH321-82F24 2R	12305594	12393594	estimated_end	12305594
	located_end	12393594		
CH321-82G06 2L	11886808	11974808	located_end	11886808
	estimated_end	11974808		
CH321-82G12 3R	12615473	12703473	located_end	12615473
	estimated_end	12703473		
CH321-82G18 3R	19900142	19988142	located_end	19900142
	estimated_end	19988142		
CH321-82G21 X	20637231	20725231	estimated_end	20637231
	located_end	20725231		
CH321-82G23 3R	7316314	7404314	located_end	7316314
	estimated_end	7404314		
CH321-82H05 3L	13585396	13673396	estimated_end	13585396
	located_end	13673396		
CH321-82H07 2L	7411502	7499502	estimated_end	7411502
	located_end	7499502		
CH321-82H08 3R	10749447	10837447	estimated_end	10749447
	located_end	10837447		
CH321-82H09 ArmU	7201166	7289166	located_end	7201166
	estimated_end	7289166		
CH321-82H10 2R	1530162	1618162	located_end	1530162
	estimated_end	1618162		
CH321-82H12 3L	22143639	22231639	located_end	22143639
	estimated_end	22231639		
CH321-82H14 2R	4295306	4383306	estimated_end	4295306
	located_end	4383306		
CH321-82H17 3L	23606946	23694946	located_end	23606946
	estimated_end	23694946		
CH321-82H20 2R	16894834	16982834	estimated_end	16894834
	located_end	16982834		
CH321-82H24 2L	7836446	7924446	estimated_end	7836446
	located_end	7924446		
CH321-82I03 3L	20027687	20115687	located_end	20027687
	estimated_end	20115687		
CH321-82I07 2L	7531934	7619934	estimated_end	7531934
	located_end	7619934		
CH321-82I11 2R	6675437	6763437	estimated_end	6675437
	located_end	6763437		
CH321-82I15 2R	12181951	12269951	estimated_end	12181951
	located_end	12269951		
CH321-82I16 3R	18625289	18713289	estimated_end	18625289
	located_end	18713289		
CH321-82I17 3L	9083846	9171846	estimated_end	9083846
	located_end	9171846		
CH321-82I20 3L	10361330	10449330	estimated_end	10361330
	located_end	10449330		
CH321-82I23 3L	7412606	7500606	located_end	7412606
	estimated_end	7500606		

CH321-82J06 2RHet	52660	140660	located_end	52660	estimated_end	140660
CH321-82J07 X	2665083	2753083	located_end	2665083	estimated_end	2753083
CH321-82J08 2L	5746469	5834469	located_end	5746469	estimated_end	5834469
CH321-82J10 3R	12636250	12724250	estimated_end	12636250	located_end	12724250
CH321-82J11 2R	1981023	2069023	located_end	1981023	estimated_end	2069023
CH321-82J16 X	4898625	4986625	estimated_end	4898625	located_end	4986625
CH321-82J17 2L	10263255	10351255	estimated_end	10263255	located_end	10351255
CH321-82J18 2L	17757518	17845518	located_end	17757518	estimated_end	17845518
CH321-82J20 2L	19703780	19791780	estimated_end	19703780	located_end	19791780
CH321-82J23 2R	9938283	10026283	estimated_end	9938283	located_end	10026283
CH321-82J24 3R	1981495	2069495	estimated_end	1981495	located_end	2069495
CH321-82K11 2R	14759301	14847301	located_end	14759301	estimated_end	14847301
CH321-82K13 3R	20970208	21058208	estimated_end	20970208	located_end	21058208
CH321-82K14 2R	15704352	15792352	estimated_end	15704352	located_end	15792352
CH321-82K16 2R	15597352	15685352	estimated_end	15597352	located_end	15685352
CH321-82K18 2L	10297536	10385536	estimated_end	10297536	located_end	10385536
CH321-82K19 3L	19529307	19617307	estimated_end	19529307	located_end	19617307
CH321-82K20 X	623018	711018	located_end	623018	estimated_end	711018
CH321-82K21 3L	19921186	20009186	located_end	19921186	estimated_end	20009186
CH321-82L08 2R	20639704	20727704	located_end	20639704	estimated_end	20727704
CH321-82L14 X	2602820	2690820	estimated_end	2602820	located_end	2690820
CH321-82L15 3R	6297163	6385163	located_end	6297163	estimated_end	6385163
CH321-82L18 3L	6960804	7048804	located_end	6960804	estimated_end	7048804
CH321-82L19 3R	24724615	24812615	estimated_end	24724615	located_end	24812615
CH321-82L20 3L	16559411	16647411	located_end	16559411	estimated_end	16647411
CH321-82L24 2R	10181912	10269912	located_end	10181912	estimated_end	10269912
CH321-82M04 2L	22066180	22154180	estimated_end	22066180	located_end	22154180

CH321-82M11 X	10717762	10805762	estimated_end	10717762
	located_end	10805762		
CH321-82M14 3R	9844432	9932432	estimated_end	9844432
	located_end	9932432		
CH321-82M18 2R	12297650	12385650	estimated_end	12297650
	located_end	12385650		
CH321-82M19 3R	4781096	4869096	estimated_end	4781096
	located_end	4869096		
CH321-82M20 2L	9459794	9547794	located_end	9459794
	estimated_end	9547794		
CH321-82M22 2R	16346862	16434862	estimated_end	16346862
	located_end	16434862		
CH321-82N08 3L	21418280	21506280	located_end	21418280
	estimated_end	21506280		
CH321-82N19 3L	4861646	4949646	located_end	4861646
	estimated_end	4949646		
CH321-82N21 2L	6044741	6132741	located_end	6044741
	estimated_end	6132741		
CH321-82N22 2R	14122535	14210535	estimated_end	14122535
	located_end	14210535		
CH321-82N24 3L	13417250	13505250	estimated_end	13417250
	located_end	13505250		
CH321-82O03 3R	8117208	8205208	located_end	8117208
	estimated_end	8205208		
CH321-82O05 3L	2434450	2522450	estimated_end	2434450
	located_end	2522450		
CH321-82O09 3L	5571513	5659513	estimated_end	5571513
	located_end	5659513		
CH321-82O11 3R	20293238	20381238	estimated_end	20293238
	located_end	20381238		
CH321-82O19 3LHet	709984	797984	estimated_end	709984
	located_end	797984		
CH321-82O22 2L	654867	742867	located_end	654867
	estimated_end	742867		
CH321-82O23 2L	13515667	13603667	estimated_end	13515667
	located_end	13603667		
CH321-82P08 X	29119	117119	located_end	29119
	117119		estimated_end	117119
CH321-82P20 2L	8203393	8291393	located_end	8203393
	estimated_end	8291393		
CH321-82P21 2L	10491928	10579928	estimated_end	10491928
	located_end	10579928		
CH321-82P22 2RHet	704781	792781	estimated_end	704781
	located_end	792781		
CH321-82P23 3R	16873511	16961511	estimated_end	16873511
	located_end	16961511		
CH321-82P24 2L	12091166	12179166	estimated_end	12091166
	located_end	12179166		
CH321-83A06 2R	6284737	6372737	located_end	6284737
	estimated_end	6372737		
CH321-83A08 ArmU	2352716	2440716	located_end	2352716
	estimated_end	2440716		
CH321-83A17 3L	12659646	12747646	located_end	12659646
	estimated_end	12747646		

CH321-83A18 3L	15691837	15779837	estimated_end	15691837
	located_end	15779837		
CH321-83A24 3R	17441466	17529466	located_end	17441466
	estimated_end	17529466		
CH321-83B06 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-83B08 2R	1205990	1293990	estimated_end	1205990
	located_end	1293990		
CH321-83B09 3R	9705711	9793711	located_end	9705711
	estimated_end	9793711		
CH321-83B12 2R	15764183	15852183	estimated_end	15764183
	located_end	15852183		
CH321-83B15 3LHet	546818	634818	located_end	546818
	estimated_end	634818		
CH321-83B17 3R	16593986	16681986	located_end	16593986
	estimated_end	16681986		
CH321-83B18 2R	7386549	7474549	located_end	7386549
	estimated_end	7474549		
CH321-83B22 ArmU	5673739	5761739	estimated_end	5673739
	located_end	5761739		
CH321-83C01 X	4018756	4106756	estimated_end	4018756
	located_end	4106756		
CH321-83C05 2R	8570007	8658007	located_end	8570007
	estimated_end	8658007		
CH321-83C17 2L	16159719	16247719	estimated_end	16159719
	located_end	16247719		
CH321-83C19 3L	16627427	16715427	located_end	16627427
	estimated_end	16715427		
CH321-83C21 2R	7058595	7146595	located_end	7058595
	estimated_end	7146595		
CH321-83C22 X	4711616	4799616	estimated_end	4711616
	located_end	4799616		
CH321-83C23 3R	21711857	21799857	estimated_end	21711857
	located_end	21799857		
CH321-83D02 X	8203664	8291664	estimated_end	8203664
	located_end	8291664		
CH321-83D08 3R	16689439	16777439	estimated_end	16689439
	located_end	16777439		
CH321-83D12 X	18704502	18792502	located_end	18704502
	estimated_end	18792502		
CH321-83D15 X	14840745	14928745	located_end	14840745
	estimated_end	14928745		
CH321-83D16 ArmU	5609307	5697307	estimated_end	5609307
	located_end	5697307		
CH321-83D20 3R	25181238	25269238	located_end	25181238
	estimated_end	25269238		
CH321-83D21 3R	24634204	24722204	estimated_end	24634204
	located_end	24722204		
CH321-83D23 3L	43798 131798		located_end	43798
	131798		estimated_end	
CH321-83E01 2R	12569082	12657082	estimated_end	12569082
	located_end	12657082		
CH321-83E03 3L	16465305	16553305	located_end	16465305
	estimated_end	16553305		

CH321-83E06 3L	6086776	6174776	estimated_end	6086776
	located_end	6174776		
CH321-83E08 3L	6863458	6951458	located_end	6863458
	estimated_end	6951458		
CH321-83E12 2L	11766420	11854420	located_end	11766420
	estimated_end	11854420		
CH321-83E16 3R	1119164	1207164	estimated_end	1119164
	located_end	1207164		
CH321-83E18 3L	22067415	22155415	located_end	22067415
	estimated_end	22155415		
CH321-83E19 3L	10528462	10616462	located_end	10528462
	estimated_end	10616462		
CH321-83F02 2R	3442119	3530119	located_end	3442119
	estimated_end	3530119		
CH321-83F03 2L	18780160	18868160	located_end	18780160
	estimated_end	18868160		
CH321-83F06 3L	3980814	4068814	located_end	3980814
	estimated_end	4068814		
CH321-83F08 2R	11026236	11114236	located_end	11026236
	estimated_end	11114236		
CH321-83F10 X	18850932	18938932	estimated_end	18850932
	located_end	18938932		
CH321-83F12 2L	7082421	7170421	located_end	7082421
	estimated_end	7170421		
CH321-83F18 2R	7749620	7837620	estimated_end	7749620
	located_end	7837620		
CH321-83G01 2L	547788	635788	located_end	547788
	estimated_end	635788		
CH321-83G09 3L	830598	918598	estimated_end	830598
	located_end	918598		
CH321-83G13 3R	135978	223978	estimated_end	135978
	located_end	223978		
CH321-83G15 ArmU	9638375	9726375	located_end	9638375
	estimated_end	9726375		
CH321-83G23 3R	16325006	16413006	estimated_end	16325006
	located_end	16413006		
CH321-83H03 X	16557252	16645252	estimated_end	16557252
	located_end	16645252		
CH321-83H10 3R	2979725	3067725	estimated_end	2979725
	located_end	3067725		
CH321-83H14 ArmU	7382621	7470621	located_end	7382621
	estimated_end	7470621		
CH321-83H15 3R	26004269	26092269	estimated_end	26004269
	located_end	26092269		
CH321-83H18 3L	13840672	13928672	estimated_end	13840672
	located_end	13928672		
CH321-83H19 2R	15040634	15128634	estimated_end	15040634
	located_end	15128634		
CH321-83H21 3L	19273616	19361616	estimated_end	19273616
	located_end	19361616		
CH321-83I03 3RHet	1146926	1234926	estimated_end	1146926
	located_end	1234926		
CH321-83I04 2R	11003229	11091229	located_end	11003229
	estimated_end	11091229		

CH321-83I06 3L	17445411	17533411	located_end	17445411
	estimated_end	17533411		
CH321-83I07 X	10892561	10980561	estimated_end	10892561
	located_end	10980561		
CH321-83I08 3L	9500190	9588190	estimated_end	9500190
	located_end	9588190		
CH321-83I10 3L	16731959	16819959	estimated_end	16731959
	located_end	16819959		
CH321-83I12 4	954188	1042188	located_end	954188
	estimated_end	1042188		
CH321-83I13 3L	15275448	15363448	located_end	15275448
	estimated_end	15363448		
CH321-83I17 X	11107736	11195736	located_end	11107736
	estimated_end	11195736		
CH321-83J01 2L	11743380	11831380	located_end	11743380
	estimated_end	11831380		
CH321-83J03 2L	13801655	13889655	located_end	13801655
	estimated_end	13889655		
CH321-83J04 3L	6232777	6320777	estimated_end	6232777
	located_end	6320777		
CH321-83J09 3R	26308585	26396585	located_end	26308585
	estimated_end	26396585		
CH321-83J18 2R	6637339	6725339	estimated_end	6637339
	located_end	6725339		
CH321-83J19 3R	21337003	21425003	estimated_end	21337003
	located_end	21425003		
CH321-83J23 3L	16077443	16165443	estimated_end	16077443
	located_end	16165443		
CH321-83K14 3L	13970626	14058626	located_end	13970626
	estimated_end	14058626		
CH321-83K16 3R	22048340	22136340	estimated_end	22048340
	located_end	22136340		
CH321-83K17 3R	6969041	7057041	estimated_end	6969041
	located_end	7057041		
CH321-83K20 3RHet	658358	746358	located_end	658358
	estimated_end	746358		
CH321-83L01 X	4064940	4152940	located_end	4064940
	estimated_end	4152940		
CH321-83L04 3R	11511046	11599046	located_end	11511046
	estimated_end	11599046		
CH321-83L05 3R	22601452	22689452	estimated_end	22601452
	located_end	22689452		
CH321-83L06 2L	1858504	1946504	estimated_end	1858504
	located_end	1946504		
CH321-83L08 3L	3419603	3507603	estimated_end	3419603
	located_end	3507603		
CH321-83L10 2L	12713746	12801746	estimated_end	12713746
	located_end	12801746		
CH321-83L17 3L	23148084	23236084	located_end	23148084
	estimated_end	23236084		
CH321-83L18 3L	15583131	15671131	estimated_end	15583131
	located_end	15671131		
CH321-83L24 2L	13944562	14032562	located_end	13944562
	estimated_end	14032562		

CH321-83M14 3R	22811997	22899997	located_end	22811997
	estimated_end	22899997		
CH321-83M16 3L	7049702	7137702	estimated_end	7049702
	located_end	7137702		
CH321-83M17 2R	17897881	17985881	estimated_end	17897881
	located_end	17985881		
CH321-83M18 3R	15330294	15418294	located_end	15330294
	estimated_end	15418294		
CH321-83M20 2L	8293055	8381055	estimated_end	8293055
	located_end	8381055		
CH321-83M23 3L	22155623	22243623	estimated_end	22155623
	located_end	22243623		
CH321-83N01 ArmU	881491	969491	estimated_end	881491
	located_end	969491		
CH321-83N07 2R	9435673	9523673	estimated_end	9435673
	located_end	9523673		
CH321-83N14 3L	20810001	20898001	located_end	20810001
	estimated_end	20898001		
CH321-83N15 ArmU	1553257	1641257	estimated_end	1553257
	located_end	1641257		
CH321-83N17 2L	13615384	13703384	estimated_end	13615384
	located_end	13703384		
CH321-83O05 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-83O06 3R	13877781	13965781	estimated_end	13877781
	located_end	13965781		
CH321-83O11 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-83O15 3R	1232270	1320270	located_end	1232270
	estimated_end	1320270		
CH321-83O20 2R	2148113	2236113	located_end	2148113
	estimated_end	2236113		
CH321-84A05 2RHet	935451	1023451	located_end	935451
	estimated_end	1023451		
CH321-84A19 3R	13704783	13792783	located_end	13704783
	estimated_end	13792783		
CH321-84A20 3R	3733799	3821799	estimated_end	3733799
	located_end	3821799		
CH321-84B02 X	19363645	19451645	estimated_end	19363645
	located_end	19451645		
CH321-84B12 2L	4122863	4210863	estimated_end	4122863
	located_end	4210863		
CH321-84B14 3L	10960778	11048778	located_end	10960778
	estimated_end	11048778		
CH321-84B15 X	19879679	19967679	estimated_end	19879679
	located_end	19967679		
CH321-84B23 3L	10447868	10535868	estimated_end	10447868
	located_end	10535868		
CH321-84C01 2L	8520793	8608793	located_end	8520793
	estimated_end	8608793		
CH321-84C04 2L	16481944	16569944	estimated_end	16481944
	located_end	16569944		
CH321-84C06 3L	12279150	12367150	estimated_end	12279150
	located_end	12367150		

CH321-84C10 3R	15882620	15970620	located_end	15882620
	estimated_end	15970620		
CH321-84C15 3L	6266828	6354828	located_end	6266828
	estimated_end	6354828		
CH321-84C22 2R	5343606	5431606	estimated_end	5343606
	located_end	5431606		
CH321-84D02 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-84D04 2L	3405079	3493079	located_end	3405079
	estimated_end	3493079		
CH321-84D07 2R	4352588	4440588	estimated_end	4352588
	located_end	4440588		
CH321-84D11 2L	16861923	16949923	estimated_end	16861923
	located_end	16949923		
CH321-84D12 3R	3623673	3711673	located_end	3623673
	estimated_end	3711673		
CH321-84D14 3R	24490976	24578976	estimated_end	24490976
	located_end	24578976		
CH321-84D15 X	12682207	12770207	located_end	12682207
	estimated_end	12770207		
CH321-84D22 3L	996595	1084595	located_end	996595
	estimated_end	1084595		
CH321-84D24 2L	12235626	12323626	located_end	12235626
	estimated_end	12323626		
CH321-84E09 3L	16867452	16955452	estimated_end	16867452
	located_end	16955452		
CH321-84E10 X	7934386	8022386	located_end	7934386
	estimated_end	8022386		
CH321-84E14 3L	5372604	5460604	located_end	5372604
	estimated_end	5460604		
CH321-84E16 3R	3779185	3867185	located_end	3779185
	estimated_end	3867185		
CH321-84E17 3R	25841312	25929312	estimated_end	25841312
	located_end	25929312		
CH321-84E18 3R	14091195	14179195	estimated_end	14091195
	located_end	14179195		
CH321-84E19 3R	26921987	27009987	estimated_end	26921987
	located_end	27009987		
CH321-84E23 2R	12742297	12830297	located_end	12742297
	estimated_end	12830297		
CH321-84E24 3R	22088867	22176867	estimated_end	22088867
	located_end	22176867		
CH321-84F03 3R	18008485	18096485	located_end	18008485
	estimated_end	18096485		
CH321-84F15 3R	20989676	21077676	estimated_end	20989676
	located_end	21077676		
CH321-84F16 3R	14709942	14797942	estimated_end	14709942
	located_end	14797942		
CH321-84F19 2R	13769382	13857382	located_end	13769382
	estimated_end	13857382		
CH321-84F20 3R	9641994	9729994	located_end	9641994
	estimated_end	9729994		
CH321-84F24 2R	18744881	18832881	located_end	18744881
	estimated_end	18832881		

CH321-84G05 2R	3145760	3233760	estimated_end	3145760
	located_end	3233760		
CH321-84G07 4	546781	634781	estimated_end	546781
	located_end	634781		
CH321-84G11 3L	279397	367397	located_end	279397
	estimated_end	367397		
CH321-84G13 X	22115193	22203193	located_end	22115193
	estimated_end	22203193		
CH321-84G17 2R	20148295	20236295	estimated_end	20148295
	located_end	20236295		
CH321-84G23 X	14169454	14257454	located_end	14169454
	estimated_end	14257454		
CH321-84G24 ArmU	8739836	8827836	located_end	8739836
	estimated_end	8827836		
CH321-84H03 3R	13577384	13665384	located_end	13577384
	estimated_end	13665384		
CH321-84H07 3R	17714796	17802796	located_end	17714796
	estimated_end	17802796		
CH321-84H10 3L	7389126	7477126	estimated_end	7389126
	located_end	7477126		
CH321-84H11 X	8380768	8468768	located_end	8380768
	estimated_end	8468768		
CH321-84H13 3R	1601844	1689844	estimated_end	1601844
	located_end	1689844		
CH321-84H14 X	7208003	7296003	estimated_end	7208003
	located_end	7296003		
CH321-84H18 3L	1081578	1169578	estimated_end	1081578
	located_end	1169578		
CH321-84H21 3L	446202	534202	estimated_end	446202
	located_end	534202		
CH321-84H22 2R	9085519	9173519	estimated_end	9085519
	located_end	9173519		
CH321-84H23 2L	10290509	10378509	estimated_end	10290509
	located_end	10378509		
CH321-84I02 2L	2329354	2417354	estimated_end	2329354
	located_end	2417354		
CH321-84I04 X	14492075	14580075	located_end	14492075
	estimated_end	14580075		
CH321-84I17 2L	13764584	13852584	located_end	13764584
	estimated_end	13852584		
CH321-84I19 2R	10658394	10746394	estimated_end	10658394
	located_end	10746394		
CH321-84I20 2L	3634937	3722937	estimated_end	3634937
	located_end	3722937		
CH321-84I22 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-84I23 3L	18203953	18291953	estimated_end	18203953
	located_end	18291953		
CH321-84I24 2R	18367845	18455845	located_end	18367845
	estimated_end	18455845		
CH321-84J06 2R	3359150	3447150	estimated_end	3359150
	located_end	3447150		
CH321-84J07 2L	6255580	6343580	located_end	6255580
	estimated_end	6343580		

CH321-84J10 3R	25871499	25959499	estimated_end	25871499
	located_end	25959499		
CH321-84J17 ArmU	7247627	7335627	located_end	7247627
	estimated_end	7335627		
CH321-84J21 3R	12423174	12511174	located_end	12423174
	estimated_end	12511174		
CH321-84K11 3L	1396031	1484031	estimated_end	1396031
	located_end	1484031		
CH321-84K12 3L	13246812	13334812	estimated_end	13246812
	located_end	13334812		
CH321-84K16 2R	7907419	7995419	estimated_end	7907419
	located_end	7995419		
CH321-84K19 X	7222511	7310511	located_end	7222511
	estimated_end	7310511		
CH321-84K20 2L	14931151	15019151	located_end	14931151
	estimated_end	15019151		
CH321-84L03 3R	14485941	14573941	estimated_end	14485941
	located_end	14573941		
CH321-84L05 2R	12533002	12621002	located_end	12533002
	estimated_end	12621002		
CH321-84L20 3R	20780206	20868206	located_end	20780206
	estimated_end	20868206		
CH321-84L21 X	7554905	7642905	located_end	7554905
	estimated_end	7642905		
CH321-84L22 2R	18004300	18092300	located_end	18004300
	estimated_end	18092300		
CH321-84M08 3R	17143822	17231822	estimated_end	17143822
	located_end	17231822		
CH321-84M11 2L	11152010	11240010	estimated_end	11152010
	located_end	11240010		
CH321-84M12 2RHet	1968727	2056727	located_end	1968727
	estimated_end	2056727		
CH321-84M23 2R	1917988	2005988	estimated_end	1917988
	located_end	2005988		
CH321-84N03 2L	22818645	22906645	located_end	22818645
	estimated_end	22906645		
CH321-84N04 3L	224191	312191	estimated_end	224191
	located_end	312191		
CH321-84N13 3L	17904187	17992187	estimated_end	17904187
	located_end	17992187		
CH321-84N20 3L	2507982	2595982	located_end	2507982
	estimated_end	2595982		
CH321-84O03 3L	1955704	2043704	estimated_end	1955704
	located_end	2043704		
CH321-84O06 3R	9776416	9864416	located_end	9776416
	estimated_end	9864416		
CH321-84O08 2R	6238361	6326361	located_end	6238361
	estimated_end	6326361		
CH321-84O10 3L	18218030	18306030	located_end	18218030
	estimated_end	18306030		
CH321-84O13 3L	21378987	21466987	estimated_end	21378987
	located_end	21466987		
CH321-84O14 ArmU	9559161	9647161	estimated_end	9559161
	located_end	9647161		

CH321-84O20 3R	20784777	20872777	estimated_end	20784777
	located_end	20872777		
CH321-84O21 X	10387861	10475861	estimated_end	10387861
	located_end	10475861		
CH321-84P01 3R	14586777	14674777	estimated_end	14586777
	located_end	14674777		
CH321-84P09 2L	7438239	7526239	estimated_end	7438239
	located_end	7526239		
CH321-84P17 3R	12734884	12822884	estimated_end	12734884
	located_end	12822884		
CH321-84P18 2L	2930590	3018590	located_end	2930590
	estimated_end	3018590		
CH321-85A06 3R	13055974	13143974	located_end	13055974
	estimated_end	13143974		
CH321-85A17 3LHet	844254	932254	estimated_end	844254
	located_end	932254		
CH321-85A24 2R	17856064	17944064	located_end	17856064
	estimated_end	17944064		
CH321-85B08 2L	21991492	22079492	estimated_end	21991492
	located_end	22079492		
CH321-85B09 3R	17616006	17704006	estimated_end	17616006
	located_end	17704006		
CH321-85B12 X	4765752	4853752	located_end	4765752
	estimated_end	4853752		
CH321-85B14 2R	15376684	15464684	located_end	15376684
	estimated_end	15464684		
CH321-85B19 2L	3363220	3451220	estimated_end	3363220
	located_end	3451220		
CH321-85C01 3R	10549713	10637713	located_end	10549713
	estimated_end	10637713		
CH321-85C11 2R	10259934	10347934	located_end	10259934
	estimated_end	10347934		
CH321-85C13 3R	15882517	15970517	estimated_end	15882517
	located_end	15970517		
CH321-85C22 3R	819189	907189	estimated_end	819189
	located_end	907189		
CH321-85D01 3L	18393184	18481184	estimated_end	18393184
	located_end	18481184		
CH321-85D03 3R	4919441	5007441	estimated_end	4919441
	located_end	5007441		
CH321-85D08 2L	7834569	7922569	located_end	7834569
	estimated_end	7922569		
CH321-85D09 3L	12458648	12546648	estimated_end	12458648
	located_end	12546648		
CH321-85D10 3L	2134447	2222447	estimated_end	2134447
	located_end	2222447		
CH321-85D13 4	1041626	1129626	located_end	1041626
	estimated_end	1129626		
CH321-85D15 X	13132680	13220680	estimated_end	13132680
	located_end	13220680		
CH321-85D20 2L	18434165	18522165	estimated_end	18434165
	located_end	18522165		
CH321-85E08 3R	13737701	13825701	located_end	13737701
	estimated_end	13825701		

CH321-85E13 3R	17785937	17873937	located_end	17785937
	estimated_end	17873937		
CH321-85E16 3R	24965138	25053138	estimated_end	24965138
	located_end	25053138		
CH321-85E18 2R	993586	1081586	estimated_end	993586
	located_end	1081586		
CH321-85E19 2R	5361658	5449658	estimated_end	5361658
	located_end	5449658		
CH321-85F01 3L	18439435	18527435	located_end	18439435
	estimated_end	18527435		
CH321-85F04 3R	15488059	15576059	estimated_end	15488059
	located_end	15576059		
CH321-85F05 2L	22807705	22895705	estimated_end	22807705
	located_end	22895705		
CH321-85F08 2R	19289095	19377095	estimated_end	19289095
	located_end	19377095		
CH321-85F20 3L	18220903	18308903	located_end	18220903
	estimated_end	18308903		
CH321-85F23 3L	14474704	14562704	estimated_end	14474704
	located_end	14562704		
CH321-85G02 3R	24546160	24634160	located_end	24546160
	estimated_end	24634160		
CH321-85G07 2L	17101491	17189491	located_end	17101491
	estimated_end	17189491		
CH321-85G09 2R	9847422	9935422	located_end	9847422
	estimated_end	9935422		
CH321-85G10 3R	22712491	22800491	estimated_end	22712491
	located_end	22800491		
CH321-85G17 2R	11599300	11687300	located_end	11599300
	estimated_end	11687300		
CH321-85H04 2L	13023563	13111563	estimated_end	13023563
	located_end	13111563		
CH321-85H07 3L	7897840	7985840	estimated_end	7897840
	located_end	7985840		
CH321-85H09 3R	2775068	2863068	located_end	2775068
	estimated_end	2863068		
CH321-85H13 2L	7356308	7444308	estimated_end	7356308
	located_end	7444308		
CH321-85H14 3R	6554088	6642088	estimated_end	6554088
	located_end	6642088		
CH321-85H18 2R	11448030	11536030	located_end	11448030
	estimated_end	11536030		
CH321-85H22 2L	17626382	17714382	estimated_end	17626382
	located_end	17714382		
CH321-85H23 2L	5608970	5696970	estimated_end	5608970
	located_end	5696970		
CH321-85I05 3R	23281860	23369860	located_end	23281860
	estimated_end	23369860		
CH321-85I06 3L	6384390	6472390	estimated_end	6384390
	located_end	6472390		
CH321-85I07 2L	7240453	7328453	located_end	7240453
	estimated_end	7328453		
CH321-85I08 3R	14628302	14716302	estimated_end	14628302
	located_end	14716302		

CH321-85I10 2RHet	1875796	1963796	located_end	1875796
estimated_end	1963796			
CH321-85I14 2L	8759365	8847365	estimated_end	8759365
located_end	8847365			
CH321-85I15 3R	21778225	21866225	estimated_end	21778225
located_end	21866225			
CH321-85I18 2L	8303394	8391394	estimated_end	8303394
located_end	8391394			
CH321-85I21 3L	24058054	24146054	estimated_end	24058054
located_end	24146054			
CH321-85J10 2L	14923077	15011077	located_end	14923077
estimated_end	15011077			
CH321-85J11 3L	8542403	8630403	located_end	8542403
estimated_end	8630403			
CH321-85J17 2R	19028889	19116889	estimated_end	19028889
located_end	19116889			
CH321-85J21 3L	4940594	5028594	estimated_end	4940594
located_end	5028594			
CH321-85J22 4	709589	797589	estimated_end	709589
located_end	797589			
CH321-85J23 2L	1311167	1399167	estimated_end	1311167
located_end	1399167			
CH321-85J24 X	7844557	7932557	located_end	7844557
estimated_end	7932557			
CH321-85K05 2R	18828867	18916867	estimated_end	18828867
located_end	18916867			
CH321-85K09 3L	11390346	11478346	located_end	11390346
estimated_end	11478346			
CH321-85K13 3L	12838905	12926905	estimated_end	12838905
located_end	12926905			
CH321-85K15 3L	7174558	7262558	estimated_end	7174558
located_end	7262558			
CH321-85K19 2R	3465639	3553639	located_end	3465639
estimated_end	3553639			
CH321-85K20 3R	15854163	15942163	located_end	15854163
estimated_end	15942163			
CH321-85K23 X	2165112	2253112	located_end	2165112
estimated_end	2253112			
CH321-85L02 2RHet	2900526	2988526	located_end	2900526
estimated_end	2988526			
CH321-85L12 3L	21944404	22032404	estimated_end	21944404
located_end	22032404			
CH321-85L15 3L	17401811	17489811	located_end	17401811
estimated_end	17489811			
CH321-85L17 3LHet	2505262	2593262	located_end	2505262
estimated_end	2593262			
CH321-85L19 X	10130006	10218006	located_end	10130006
estimated_end	10218006			
CH321-85L20 2L	7479264	7567264	located_end	7479264
estimated_end	7567264			
CH321-85L21 3R	1503277	1591277	located_end	1503277
estimated_end	1591277			
CH321-85L23 2L	2382502	2470502	estimated_end	2382502
located_end	2470502			

CH321-85L24 2R	14774732	14862732	estimated_end	14774732
	located_end	14862732		
CH321-85M04 3R	4675348	4763348	located_end	4675348
	estimated_end	4763348		
CH321-85M08 3L	9328038	9416038	located_end	9328038
	estimated_end	9416038		
CH321-85M10 2L	18330930	18418930	estimated_end	18330930
	located_end	18418930		
CH321-85M11 2L	2533109	2621109	located_end	2533109
	estimated_end	2621109		
CH321-85M13 3L	16744629	16832629	located_end	16744629
	estimated_end	16832629		
CH321-85M18 3L	12006902	12094902	located_end	12006902
	estimated_end	12094902		
CH321-85M20 3R	3016815	3104815	estimated_end	3016815
	located_end	3104815		
CH321-85M22 3L	17246608	17334608	located_end	17246608
	estimated_end	17334608		
CH321-85M23 3R	15544186	15632186	estimated_end	15544186
	located_end	15632186		
CH321-85M24 2R	6580842	6668842	located_end	6580842
	estimated_end	6668842		
CH321-85N04 3LHet	632873	720873	located_end	632873
	estimated_end	720873		
CH321-85N08 3R	15114642	15202642	located_end	15114642
	estimated_end	15202642		
CH321-85N11 3R	3950381	4038381	located_end	3950381
	estimated_end	4038381		
CH321-85N14 2L	9816017	9904017	estimated_end	9816017
	located_end	9904017		
CH321-85N15 2L	1640463	1728463	estimated_end	1640463
	located_end	1728463		
CH321-85N17 3L	22352700	22440700	estimated_end	22352700
	located_end	22440700		
CH321-85N18 ArmU	7817009	7905009	located_end	7817009
	estimated_end	7905009		
CH321-85N23 3L	1880410	1968410	estimated_end	1880410
	located_end	1968410		
CH321-85O02 3R	21958456	22046456	located_end	21958456
	estimated_end	22046456		
CH321-85O04 3L	8801797	8889797	estimated_end	8801797
	located_end	8889797		
CH321-85O05 3RHet	621350	709350	located_end	621350
	estimated_end	709350		
CH321-85O06 3R	19210225	19298225	estimated_end	19210225
	located_end	19298225		
CH321-85O13 3LHet	2112410	2200410	estimated_end	2112410
	located_end	2200410		
CH321-85O19 3L	4072463	4160463	estimated_end	4072463
	located_end	4160463		
CH321-85O20 2R	12215963	12303963	located_end	12215963
	estimated_end	12303963		
CH321-85O22 X	17830098	17918098	located_end	17830098
	estimated_end	17918098		

CH321-85P04 3L	11503039	11591039	located_end	11503039
	estimated_end	11591039		
CH321-85P07 2L	13462430	13550430	located_end	13462430
	estimated_end	13550430		
CH321-85P09 2R	12274388	12362388	located_end	12274388
	estimated_end	12362388		
CH321-85P14 2L	14137069	14225069	located_end	14137069
	estimated_end	14225069		
CH321-85P21 ArmU	3395712	3483712	located_end	3395712
	estimated_end	3483712		
CH321-86A05 X	18293504	18381504	located_end	18293504
	estimated_end	18381504		
CH321-86A11 2R	11001986	11089986	located_end	11001986
	estimated_end	11089986		
CH321-86A24 3R	23568995	23656995	located_end	23568995
	estimated_end	23656995		
CH321-86B04 2R	394239	482239	estimated_end	394239
	located_end	482239		
CH321-86B13 3R	13107090	13195090	located_end	13107090
	estimated_end	13195090		
CH321-86C02 3L	20169481	20257481	estimated_end	20169481
	located_end	20257481		
CH321-86C08 3L	13285272	13373272	estimated_end	13285272
	located_end	13373272		
CH321-86C09 2R	5370997	5458997	estimated_end	5370997
	located_end	5458997		
CH321-86C16 3R	13258029	13346029	estimated_end	13258029
	located_end	13346029		
CH321-86C17 3R	17193497	17281497	estimated_end	17193497
	located_end	17281497		
CH321-86C18 2L	7976081	8064081	located_end	7976081
	estimated_end	8064081		
CH321-86C19 3R	3943198	4031198	estimated_end	3943198
	located_end	4031198		
CH321-86D02 2L	17277978	17365978	located_end	17277978
	estimated_end	17365978		
CH321-86D07 3R	9013156	9101156	estimated_end	9013156
	located_end	9101156		
CH321-86D10 3L	82323	170323	estimated_end	82323
	located_end	170323	located_end	
CH321-86D14 2L	13555456	13643456	estimated_end	13555456
	located_end	13643456		
CH321-86D19 2L	1964299	2052299	located_end	1964299
	estimated_end	2052299		
CH321-86D22 2L	19721800	19809800	estimated_end	19721800
	located_end	19809800		
CH321-86E06 3R	14591490	14679490	located_end	14591490
	estimated_end	14679490		
CH321-86E10 3L	20838678	20926678	located_end	20838678
	estimated_end	20926678		
CH321-86E15 X	10534837	10622837	estimated_end	10534837
	located_end	10622837		
CH321-86E16 X	5707571	5795571	estimated_end	5707571
	located_end	5795571		

CH321-86E20 X	19053822	19141822	located_end	19053822
	estimated_end	19141822		
CH321-86E21 2R	7156433	7244433	estimated_end	7156433
	located_end	7244433		
CH321-86F06 3L	778947	866947	located_end	778947
	estimated_end	866947		
CH321-86F07 3L	7302952	7390952	located_end	7302952
	estimated_end	7390952		
CH321-86F09 3R	16663889	16751889	estimated_end	16663889
	located_end	16751889		
CH321-86F10 2R	5395948	5483948	estimated_end	5395948
	located_end	5483948		
CH321-86F16 2L	5619324	5707324	estimated_end	5619324
	located_end	5707324		
CH321-86F21 3L	17644216	17732216	located_end	17644216
	estimated_end	17732216		
CH321-86F23 3R	15123744	15211744	estimated_end	15123744
	located_end	15211744		
CH321-86G06 3R	15993954	16081954	estimated_end	15993954
	located_end	16081954		
CH321-86G07 3L	11814533	11902533	estimated_end	11814533
	located_end	11902533		
CH321-86G08 3R	2374959	2462959	located_end	2374959
	estimated_end	2462959		
CH321-86G10 3L	4919811	5007811	located_end	4919811
	estimated_end	5007811		
CH321-86G14 3R	5837612	5925612	estimated_end	5837612
	located_end	5925612		
CH321-86G15 X	7232398	7320398	estimated_end	7232398
	located_end	7320398		
CH321-86G16 2L	1015621	1103621	located_end	1015621
	estimated_end	1103621		
CH321-86G17 3L	6430374	6518374	located_end	6430374
	estimated_end	6518374		
CH321-86G18 3L	1452431	1540431	estimated_end	1452431
	located_end	1540431		
CH321-86G20 X	4024909	4112909	estimated_end	4024909
	located_end	4112909		
CH321-86G23 X	16515748	16603748	estimated_end	16515748
	located_end	16603748		
CH321-86H08 2R	5318455	5406455	located_end	5318455
	estimated_end	5406455		
CH321-86H11 ArmU	1205520	1293520	located_end	1205520
	estimated_end	1293520		
CH321-86H13 3R	22284718	22372718	estimated_end	22284718
	located_end	22372718		
CH321-86H20 X	1015738	1103738	located_end	1015738
	estimated_end	1103738		
CH321-86H21 2R	14069899	14157899	located_end	14069899
	estimated_end	14157899		
CH321-86H22 2L	2973472	3061472	estimated_end	2973472
	located_end	3061472		
CH321-86I01 2R	5093796	5181796	located_end	5093796
	estimated_end	5181796		

CH321-86I04 2R	5594063	5682063	estimated_end	5594063
	located_end	5682063		
CH321-86I05 2R	12135342	12223342	estimated_end	12135342
	located_end	12223342		
CH321-86I10 2RHet	3108398	3196398	estimated_end	3108398
	located_end	3196398		
CH321-86I14 3L	8189040	8277040	estimated_end	8189040
	located_end	8277040		
CH321-86I18 2L	12998562	13086562	estimated_end	12998562
	located_end	13086562		
CH321-86J03 X	3186436	3274436	located_end	3186436
	estimated_end	3274436		
CH321-86J04 2L	3381557	3469557	estimated_end	3381557
	located_end	3469557		
CH321-86J05 2R	7042522	7130522	located_end	7042522
	estimated_end	7130522		
CH321-86J09 3R	12454718	12542718	located_end	12454718
	estimated_end	12542718		
CH321-86J16 3L	18497537	18585537	located_end	18497537
	estimated_end	18585537		
CH321-86J17 2R	1159221	1247221	located_end	1159221
	estimated_end	1247221		
CH321-86J21 2R	1308190	1396190	estimated_end	1308190
	located_end	1396190		
CH321-86J23 3R	12698704	12786704	estimated_end	12698704
	located_end	12786704		
CH321-86J24 2L	9436309	9524309	located_end	9436309
	estimated_end	9524309		
CH321-86K05 2L	8362998	8450998	estimated_end	8362998
	located_end	8450998		
CH321-86K07 3L	13073288	13161288	located_end	13073288
	estimated_end	13161288		
CH321-86K08 3R	20748882	20836882	estimated_end	20748882
	located_end	20836882		
CH321-86K09 2L	14355463	14443463	located_end	14355463
	estimated_end	14443463		
CH321-86K11 X	20208386	20296386	estimated_end	20208386
	located_end	20296386		
CH321-86K13 3R	9962369	10050369	estimated_end	9962369
	located_end	10050369		
CH321-86K16 2L	8759932	8847932	estimated_end	8759932
	located_end	8847932		
CH321-86K17 2R	14367190	14455190	located_end	14367190
	estimated_end	14455190		
CH321-86K18 3L	329390	417390	estimated_end	329390
	located_end	417390		
CH321-86K21 2L	18625877	18713877	estimated_end	18625877
	located_end	18713877		
CH321-86L03 2L	18676739	18764739	located_end	18676739
	estimated_end	18764739		
CH321-86L04 2R	11803924	11891924	located_end	11803924
	estimated_end	11891924		
CH321-86L08 2L	21250331	21338331	located_end	21250331
	estimated_end	21338331		

CH321-86L09 3R	22144380	22232380	estimated_end	22144380
	located_end	22232380		
CH321-86L15 3L	7416240	7504240	estimated_end	7416240
	located_end	7504240		
CH321-86L17 2L	3375157	3463157	located_end	3375157
	estimated_end	3463157		
CH321-86L22 3R	10620382	10708382	estimated_end	10620382
	located_end	10708382		
CH321-86M07 3L	12178923	12266923	estimated_end	12178923
	located_end	12266923		
CH321-86M10 2R	15138386	15226386	located_end	15138386
	estimated_end	15226386		
CH321-86M11 3R	27382975	27470975	located_end	27382975
	estimated_end	27470975		
CH321-86M15 3R	21368274	21456274	located_end	21368274
	estimated_end	21456274		
CH321-86M24 2R	5057432	5145432	located_end	5057432
	estimated_end	5145432		
CH321-86N06 X	5318832	5406832	estimated_end	5318832
	located_end	5406832		
CH321-86N07 3L	177116	265116	located_end	177116
	estimated_end	265116		
CH321-86N08 2L	10888268	10976268	estimated_end	10888268
	located_end	10976268		
CH321-86N09 2R	13046189	13134189	estimated_end	13046189
	located_end	13134189		
CH321-86N10 3L	21497841	21585841	estimated_end	21497841
	located_end	21585841		
CH321-86N12 3R	17749327	17837327	estimated_end	17749327
	located_end	17837327		
CH321-86N16 3R	16537150	16625150	estimated_end	16537150
	located_end	16625150		
CH321-86N17 X	20869695	20957695	located_end	20869695
	estimated_end	20957695		
CH321-86N19 2L	16109758	16197758	located_end	16109758
	estimated_end	16197758		
CH321-86N20 2L	15822340	15910340	estimated_end	15822340
	located_end	15910340		
CH321-86N21 3LHet	969369	1057369	estimated_end	969369
	located_end	1057369		
CH321-86O05 ArmU	2219424	2307424	located_end	2219424
	estimated_end	2307424		
CH321-86O06 2R	7069068	7157068	located_end	7069068
	estimated_end	7157068		
CH321-86O07 3R	15240061	15328061	estimated_end	15240061
	located_end	15328061		
CH321-86O09 2R	2950073	3038073	located_end	2950073
	estimated_end	3038073		
CH321-86O12 3R	21448319	21536319	located_end	21448319
	estimated_end	21536319		
CH321-86O13 3RHet	539353	627353	estimated_end	539353
	located_end	627353		
CH321-86O17 3R	26189294	26277294	located_end	26189294
	estimated_end	26277294		

CH321-86O20 3R	19875941	19963941	estimated_end	19875941
	located_end	19963941		
CH321-86O23 X	6155622	6243622	estimated_end	6155622
	located_end	6243622		
CH321-86P08 X	8973077	9061077	estimated_end	8973077
	located_end	9061077		
CH321-86P14 X	5205795	5293795	estimated_end	5205795
	located_end	5293795		
CH321-86P20 3L	6311631	6399631	located_end	6311631
	estimated_end	6399631		
CH321-86P21 2L	10559673	10647673	estimated_end	10559673
	located_end	10647673		
CH321-86P23 2L	21295965	21383965	located_end	21295965
	estimated_end	21383965		
CH321-87A02 3L	16333115	16421115	located_end	16333115
	estimated_end	16421115		
CH321-87A13 ArmU	6237860	6325860	located_end	6237860
	estimated_end	6325860		
CH321-87A15 2RHet	1927642	2015642	located_end	1927642
	estimated_end	2015642		
CH321-87A17 2L	4211822	4299822	estimated_end	4211822
	located_end	4299822		
CH321-87A21 ArmU	1080111	1168111	estimated_end	1080111
	located_end	1168111		
CH321-87B09 2L	4258239	4346239	estimated_end	4258239
	located_end	4346239		
CH321-87C04 3L	4651331	4739331	located_end	4651331
	estimated_end	4739331		
CH321-87C06 2R	12127655	12215655	estimated_end	12127655
	located_end	12215655		
CH321-87C07 2L	17118346	17206346	estimated_end	17118346
	located_end	17206346		
CH321-87C12 X	20641410	20729410	located_end	20641410
	estimated_end	20729410		
CH321-87C14 2L	20559553	20647553	located_end	20559553
	estimated_end	20647553		
CH321-87C16 3L	20590623	20678623	estimated_end	20590623
	located_end	20678623		
CH321-87C19 3L	10334491	10422491	located_end	10334491
	estimated_end	10422491		
CH321-87C20 X	1103217	1191217	estimated_end	1103217
	located_end	1191217		
CH321-87C24 2L	11577485	11665485	estimated_end	11577485
	located_end	11665485		
CH321-87D06 X	15232829	15320829	located_end	15232829
	estimated_end	15320829		
CH321-87D10 2L	14908595	14996595	located_end	14908595
	estimated_end	14996595		
CH321-87D11 2L	3069724	3157724	estimated_end	3069724
	located_end	3157724		
CH321-87D12 2R	19850533	19938533	located_end	19850533
	estimated_end	19938533		
CH321-87D13 3R	6530754	6618754	estimated_end	6530754
	located_end	6618754		

CH321-87D16 2L	19950452	20038452	estimated_end	19950452
	located_end	20038452		
CH321-87D17 2R	16846330	16934330	estimated_end	16846330
	located_end	16934330		
CH321-87D18 3R	12852856	12940856	estimated_end	12852856
	located_end	12940856		
CH321-87D20 3R	15821816	15909816	located_end	15821816
	estimated_end	15909816		
CH321-87D22 2L	5561105	5649105	estimated_end	5561105
	located_end	5649105		
CH321-87E07 3L	605512	693512	estimated_end	605512
	located_end	693512		
CH321-87E09 3R	5245505	5333505	located_end	5245505
	estimated_end	5333505		
CH321-87E13 3L	6273739	6361739	estimated_end	6273739
	located_end	6361739		
CH321-87E14 X	11421443	11509443	located_end	11421443
	estimated_end	11509443		
CH321-87E15 2R	21000614	21088614	located_end	21000614
	estimated_end	21088614		
CH321-87E16 3L	2253952	2341952	located_end	2253952
	estimated_end	2341952		
CH321-87E21 3R	12923266	13011266	located_end	12923266
	estimated_end	13011266		
CH321-87E22 X	15130608	15218608	estimated_end	15130608
	located_end	15218608		
CH321-87F03 3R	17522695	17610695	located_end	17522695
	estimated_end	17610695		
CH321-87F05 2L	6012966	6100966	estimated_end	6012966
	located_end	6100966		
CH321-87F06 2L	6240250	6328250	estimated_end	6240250
	located_end	6328250		
CH321-87F08 3R	16670957	16758957	estimated_end	16670957
	located_end	16758957		
CH321-87F10 2R	4728354	4816354	estimated_end	4728354
	located_end	4816354		
CH321-87F11 3R	2217844	2305844	located_end	2217844
	estimated_end	2305844		
CH321-87F13 2L	9924537	10012537	estimated_end	9924537
	located_end	10012537		
CH321-87F15 2L	19550961	19638961	located_end	19550961
	estimated_end	19638961		
CH321-87F16 3L	6820718	6908718	estimated_end	6820718
	located_end	6908718		
CH321-87F17 2R	20144697	20232697	estimated_end	20144697
	located_end	20232697		
CH321-87F18 X	10871369	10959369	estimated_end	10871369
	located_end	10959369		
CH321-87F19 2L	21726569	21814569	estimated_end	21726569
	located_end	21814569		
CH321-87F20 2L	15615048	15703048	located_end	15615048
	estimated_end	15703048		
CH321-87F22 3R	25222035	25310035	located_end	25222035
	estimated_end	25310035		

CH321-87F24 X	10388700	10476700	estimated_end	10388700
	located_end	10476700		
CH321-87G01 3L	22939942	23027942	located_end	22939942
	estimated_end	23027942		
CH321-87G04 2L	11848892	11936892	estimated_end	11848892
	located_end	11936892		
CH321-87G06 2R	539297	627297	estimated_end	539297
	located_end	627297		
CH321-87G08 3R	22369771	22457771	estimated_end	22369771
	located_end	22457771		
CH321-87G12 2R	11549517	11637517	located_end	11549517
	estimated_end	11637517		
CH321-87G14 2R	10506289	10594289	estimated_end	10506289
	located_end	10594289		
CH321-87G16 X	11513624	11601624	located_end	11513624
	estimated_end	11601624		
CH321-87G17 2L	7373374	7461374	estimated_end	7373374
	located_end	7461374		
CH321-87G19 3L	12817290	12905290	estimated_end	12817290
	located_end	12905290		
CH321-87G24 X	21950919	22038919	estimated_end	21950919
	located_end	22038919		
CH321-87H01 ArmU	9425825	9513825	estimated_end	9425825
	located_end	9513825		
CH321-87H02 3L	21528027	21616027	estimated_end	21528027
	located_end	21616027		
CH321-87H03 3R	21504283	21592283	located_end	21504283
	estimated_end	21592283		
CH321-87H06 3L	6030259	6118259	estimated_end	6030259
	located_end	6118259		
CH321-87H07 3R	16756023	16844023	located_end	16756023
	estimated_end	16844023		
CH321-87H08 3L	1325224	1413224	estimated_end	1325224
	located_end	1413224		
CH321-87H11 2R	2138103	2226103	estimated_end	2138103
	located_end	2226103		
CH321-87H13 2RHet	1329692	1417692	estimated_end	1329692
	located_end	1417692		
CH321-87H14 2R	17841656	17929656	estimated_end	17841656
	located_end	17929656		
CH321-87H16 3L	24035674	24123674	located_end	24035674
	estimated_end	24123674		
CH321-87H18 3L	5578224	5666224	estimated_end	5578224
	located_end	5666224		
CH321-87H20 3R	3344207	3432207	located_end	3344207
	estimated_end	3432207		
CH321-87H21 3R	26040420	26128420	estimated_end	26040420
	located_end	26128420		
CH321-87H22 3L	6601179	6689179	located_end	6601179
	estimated_end	6689179		
CH321-87I01 2L	5611292	5699292	estimated_end	5611292
	located_end	5699292		
CH321-87I05 3L	5010863	5098863	estimated_end	5010863
	located_end	5098863		

CH321-87I07 X	4755900	4843900	estimated_end	4755900
	located_end	4843900		
CH321-87I17 2R	9768360	9856360	estimated_end	9768360
	located_end	9856360		
CH321-87I19 3L	21850243	21938243	located_end	21850243
	estimated_end	21938243		
CH321-87I24 3L	5581367	5669367	estimated_end	5581367
	located_end	5669367		
CH321-87J02 2RHet	1860507	1948507	located_end	1860507
	estimated_end	1948507		
CH321-87J04 3R	5482335	5570335	estimated_end	5482335
	located_end	5570335		
CH321-87J06 3R	350624	438624	located_end	350624
	estimated_end	438624		
CH321-87J07 X	14391620	14479620	estimated_end	14391620
	located_end	14479620		
CH321-87J08 2R	14390771	14478771	located_end	14390771
	estimated_end	14478771		
CH321-87J10 2R	6709971	6797971	estimated_end	6709971
	located_end	6797971		
CH321-87J18 2R	5272989	5360989	estimated_end	5272989
	located_end	5360989		
CH321-87J21 3R	20107310	20195310	estimated_end	20107310
	located_end	20195310		
CH321-87J24 2R	12578697	12666697	estimated_end	12578697
	located_end	12666697		
CH321-87K06 3L	6618164	6706164	estimated_end	6618164
	located_end	6706164		
CH321-87K08 2L	16496201	16584201	located_end	16496201
	estimated_end	16584201		
CH321-87K09 2R	934179	1022179	estimated_end	934179
	located_end	1022179		
CH321-87K14 3LHet	1171670	1259670	estimated_end	1171670
	located_end	1259670		
CH321-87K15 3R	14785078	14873078	located_end	14785078
	estimated_end	14873078		
CH321-87K23 2R	142236	230236	estimated_end	142236
	located_end	230236		
CH321-87K24 3L	7534642	7622642	located_end	7534642
	estimated_end	7622642		
CH321-87L06 3R	2705282	2793282	located_end	2705282
	estimated_end	2793282		
CH321-87L07 2R	9218963	9306963	located_end	9218963
	estimated_end	9306963		
CH321-87L12 2R	10199157	10287157	located_end	10199157
	estimated_end	10287157		
CH321-87L15 2R	15350429	15438429	estimated_end	15350429
	located_end	15438429		
CH321-87L17 2L	14532989	14620989	located_end	14532989
	estimated_end	14620989		
CH321-87M04 2RHet	2141731	2229731	located_end	2141731
	estimated_end	2229731		
CH321-87M11 3L	14393249	14481249	estimated_end	14393249
	located_end	14481249		

CH321-87M12 3R	23385061	23473061	located_end	23385061
	estimated_end	23473061		
CH321-87M18 2L	19556270	19644270	estimated_end	19556270
	located_end	19644270		
CH321-87M21 2L	22014920	22102920	located_end	22014920
	estimated_end	22102920		
CH321-87M23 X	21940956	22028956	estimated_end	21940956
	located_end	22028956		
CH321-87M24 2R	16432812	16520812	located_end	16432812
	estimated_end	16520812		
CH321-87N02 2L	22189862	22277862	estimated_end	22189862
	located_end	22277862		
CH321-87N03 3RHet	696066	784066	estimated_end	696066
	located_end	784066		
CH321-87N05 3LHet	1303244	1391244	estimated_end	1303244
	located_end	1391244		
CH321-87N10 3L	8587608	8675608	located_end	8587608
	estimated_end	8675608		
CH321-87N13 2RHet	466609	554609	estimated_end	466609
	located_end	554609		
CH321-87N15 3R	14516418	14604418	located_end	14516418
	estimated_end	14604418		
CH321-87N16 2R	6438930	6526930	located_end	6438930
	estimated_end	6526930		
CH321-87N21 3RHet	1097318	1185318	located_end	1097318
	estimated_end	1185318		
CH321-87N24 2L	18047930	18135930	estimated_end	18047930
	located_end	18135930		
CH321-87O04 2L	3443155	3531155	estimated_end	3443155
	located_end	3531155		
CH321-87O08 3L	14593338	14681338	estimated_end	14593338
	located_end	14681338		
CH321-87O12 3L	12173374	12261374	estimated_end	12173374
	located_end	12261374		
CH321-87O13 2R	7792343	7880343	located_end	7792343
	estimated_end	7880343		
CH321-87O22 3R	26048435	26136435	located_end	26048435
	estimated_end	26136435		
CH321-87O23 3R	21927407	22015407	located_end	21927407
	estimated_end	22015407		
CH321-87P04 3R	16063872	16151872	estimated_end	16063872
	located_end	16151872		
CH321-87P09 X	16248630	16336630	located_end	16248630
	estimated_end	16336630		
CH321-87P11 3R	2658367	2746367	located_end	2658367
	estimated_end	2746367		
CH321-87P13 3R	26470873	26558873	estimated_end	26470873
	located_end	26558873		
CH321-87P14 3R	12894580	12982580	estimated_end	12894580
	located_end	12982580		
CH321-87P23 3R	10745416	10833416	located_end	10745416
	estimated_end	10833416		
CH321-88A07 3R	16503250	16591250	located_end	16503250
	estimated_end	16591250		

CH321-88A08 2R	2470830	2558830	estimated_end	2470830
	located_end	2558830		
CH321-88A11 X	2599179	2687179	estimated_end	2599179
	located_end	2687179		
CH321-88A13 2RHet	1551176	1639176	located_end	1551176
	estimated_end	1639176		
CH321-88A18 2R	17011910	17099910	estimated_end	17011910
	located_end	17099910		
CH321-88A19 2R	20710619	20798619	estimated_end	20710619
	located_end	20798619		
CH321-88B02 2R	5279863	5367863	located_end	5279863
	estimated_end	5367863		
CH321-88B04 2R	17300244	17388244	located_end	17300244
	estimated_end	17388244		
CH321-88B07 3L	8471992	8559992	estimated_end	8471992
	located_end	8559992		
CH321-88B08 2L	11165701	11253701	located_end	11165701
	estimated_end	11253701		
CH321-88B18 2L	16099249	16187249	estimated_end	16099249
	located_end	16187249		
CH321-88B19 2L	16482937	16570937	estimated_end	16482937
	located_end	16570937		
CH321-88B20 3R	7690606	7778606	estimated_end	7690606
	located_end	7778606		
CH321-88C04 3L	20179873	20267873	estimated_end	20179873
	located_end	20267873		
CH321-88C05 2RHet	2247209	2335209	located_end	2247209
	estimated_end	2335209		
CH321-88C06 3R	26017778	26105778	located_end	26017778
	estimated_end	26105778		
CH321-88C09 2R	13516812	13604812	located_end	13516812
	estimated_end	13604812		
CH321-88C12 3L	3532775	3620775	estimated_end	3532775
	located_end	3620775		
CH321-88C13 2L	20443841	20531841	estimated_end	20443841
	located_end	20531841		
CH321-88C14 X	9020915	9108915	located_end	9020915
	estimated_end	9108915		
CH321-88C17 2R	15167009	15255009	estimated_end	15167009
	located_end	15255009		
CH321-88C20 2L	14755037	14843037	estimated_end	14755037
	located_end	14843037		
CH321-88C23 2L	16414537	16502537	located_end	16414537
	estimated_end	16502537		
CH321-88D10 3LHet	1054563	1142563	estimated_end	1054563
	located_end	1142563		
CH321-88D12 3R	18900938	18988938	located_end	18900938
	estimated_end	18988938		
CH321-88D15 2L	9088550	9176550	located_end	9088550
	estimated_end	9176550		
CH321-88D16 X	6806418	6894418	estimated_end	6806418
	located_end	6894418		
CH321-88D19 3L	2252490	2340490	located_end	2252490
	estimated_end	2340490		

CH321-88D20 3R	2181464	2269464	located_end 2181464
estimated_end	2269464		
CH321-88D24 2R	1877279	1965279	located_end 1877279
estimated_end	1965279		
CH321-88E03 2L	12825701	12913701	located_end 12825701
estimated_end	12913701		
CH321-88E06 3R	5093390	5181390	estimated_end 5093390
located_end	5181390		
CH321-88E08 3L	7797464	7885464	located_end 7797464
estimated_end	7885464		
CH321-88E09 3R	10327505	10415505	estimated_end 10327505
located_end	10415505		
CH321-88E10 3L	5566723	5654723	estimated_end 5566723
located_end	5654723		
CH321-88E11 2R	3422497	3510497	located_end 3422497
estimated_end	3510497		
CH321-88E13 X	5183441	5271441	estimated_end 5183441
located_end	5271441		
CH321-88E16 3L	4551885	4639885	located_end 4551885
estimated_end	4639885		
CH321-88E17 2R	18497637	18585637	located_end 18497637
estimated_end	18585637		
CH321-88E18 X	12401792	12489792	located_end 12401792
estimated_end	12489792		
CH321-88E19 2L	277416	365416	located_end 277416
estimated_end	365416		
CH321-88E20 2L	13709686	13797686	located_end 13709686
estimated_end	13797686		
CH321-88E23 3L	7859461	7947461	estimated_end 7859461
located_end	7947461		
CH321-88E24 3R	26285529	26373529	located_end 26285529
estimated_end	26373529		
CH321-88F05 2R	3736833	3824833	estimated_end 3736833
located_end	3824833		
CH321-88F11 2L	4246022	4334022	estimated_end 4246022
located_end	4334022		
CH321-88F14 2L	12788098	12876098	estimated_end 12788098
located_end	12876098		
CH321-88F15 2R	15194571	15282571	estimated_end 15194571
located_end	15282571		
CH321-88F18 2L	15132009	15220009	located_end 15132009
estimated_end	15220009		
CH321-88F19 3R	25840878	25928878	estimated_end 25840878
located_end	25928878		
CH321-88F20 3RHet	2034684	2122684	estimated_end 2034684
located_end	2122684		
CH321-88F24 2L	12725129	12813129	located_end 12725129
estimated_end	12813129		
CH321-88G01 3R	14669755	14757755	located_end 14669755
estimated_end	14757755		
CH321-88G07 2L	17175889	17263889	estimated_end 17175889
located_end	17263889		
CH321-88G09 ArmU	330997	418997	located_end 330997
estimated_end	418997		

CH321-88G11 3L	16465995	16553995	located_end	16465995
	estimated_end	16553995		
CH321-88G12 3L	17701999	17789999	estimated_end	17701999
	located_end	17789999		
CH321-88G15 2L	7610222	7698222	located_end	7610222
	estimated_end	7698222		
CH321-88G22 X	4774443	4862443	estimated_end	4774443
	located_end	4862443		
CH321-88H04 3R	14892509	14980509	estimated_end	14892509
	located_end	14980509		
CH321-88H05 2R	17870861	17958861	located_end	17870861
	estimated_end	17958861		
CH321-88H06 X	10044690	10132690	estimated_end	10044690
	located_end	10132690		
CH321-88H13 X	11127381	11215381	estimated_end	11127381
	located_end	11215381		
CH321-88H22 2L	3068555	3156555	estimated_end	3068555
	located_end	3156555		
CH321-88I06 2L	22978396	23066396	located_end	22978396
	estimated_end	23066396		
CH321-88I07 2R	15703257	15791257	located_end	15703257
	estimated_end	15791257		
CH321-88I18 3L	20250338	20338338	estimated_end	20250338
	located_end	20338338		
CH321-88I24 X	8654494	8742494	estimated_end	8654494
	located_end	8742494		
CH321-88J02 X	3862795	3950795	estimated_end	3862795
	located_end	3950795		
CH321-88J06 3L	14346862	14434862	located_end	14346862
	estimated_end	14434862		
CH321-88J17 X	12661432	12749432	located_end	12661432
	estimated_end	12749432		
CH321-88J23 X	15074439	15162439	located_end	15074439
	estimated_end	15162439		
CH321-88K04 X	9596725	9684725	located_end	9596725
	estimated_end	9684725		
CH321-88K05 2L	6398163	6486163	estimated_end	6398163
	located_end	6486163		
CH321-88K06 X	15132073	15220073	located_end	15132073
	estimated_end	15220073		
CH321-88K14 2L	2676716	2764716	located_end	2676716
	estimated_end	2764716		
CH321-88K18 3L	23976594	24064594	estimated_end	23976594
	located_end	24064594		
CH321-88K20 2R	6612378	6700378	estimated_end	6612378
	located_end	6700378		
CH321-88K23 3R	13218223	13306223	estimated_end	13218223
	located_end	13306223		
CH321-88K24 3R	15760866	15848866	located_end	15760866
	estimated_end	15848866		
CH321-88L09 3R	6489933	6577933	located_end	6489933
	estimated_end	6577933		
CH321-88L17 2R	18238865	18326865	located_end	18238865
	estimated_end	18326865		

CH321-88L20 X	4969724	5057724	located_end	4969724
	estimated_end	5057724		
CH321-88L23 2L	9602234	9690234	estimated_end	9602234
	located_end	9690234		
CH321-88L24 2L	19549304	19637304	estimated_end	19549304
	located_end	19637304		
CH321-88M04 3R	11732581	11820581	estimated_end	11732581
	located_end	11820581		
CH321-88M07 3L	22901381	22989381	located_end	22901381
	estimated_end	22989381		
CH321-88M11 2R	2270045	2358045	estimated_end	2270045
	located_end	2358045		
CH321-88M12 3R	6859043	6947043	located_end	6859043
	estimated_end	6947043		
CH321-88M20 X	16400233	16488233	estimated_end	16400233
	located_end	16488233		
CH321-88M24 3R	12026143	12114143	estimated_end	12026143
	located_end	12114143		
CH321-88N11 ArmU	1638919	1726919	located_end	1638919
	estimated_end	1726919		
CH321-88N12 ArmU	106008	194008	estimated_end	106008
	located_end	194008		
CH321-88O05 2R	1359987	1447987	located_end	1359987
	estimated_end	1447987		
CH321-88O14 3L	18978401	19066401	located_end	18978401
	estimated_end	19066401		
CH321-88O19 2L	13551661	13639661	estimated_end	13551661
	located_end	13639661		
CH321-88O22 2L	20175819	20263819	located_end	20175819
	estimated_end	20263819		
CH321-88P23 2L	5896270	5984270	estimated_end	5896270
	located_end	5984270		
CH321-89A16 4	376995	464995	estimated_end	376995
	located_end	464995		
CH321-89A17 2L	22468796	22556796	estimated_end	22468796
	located_end	22556796		
CH321-89A18 3L	11836583	11924583	located_end	11836583
	estimated_end	11924583		
CH321-89B06 2L	5806050	5894050	located_end	5806050
	estimated_end	5894050		
CH321-89B12 2R	6785891	6873891	located_end	6785891
	estimated_end	6873891		
CH321-89B15 X	2765082	2853082	estimated_end	2765082
	located_end	2853082		
CH321-89B17 2R	3716380	3804380	estimated_end	3716380
	located_end	3804380		
CH321-89C04 4	1061280	1149280	estimated_end	1061280
	located_end	1149280		
CH321-89C07 2L	8305244	8393244	estimated_end	8305244
	located_end	8393244		
CH321-89C08 3L	20054988	20142988	estimated_end	20054988
	located_end	20142988		
CH321-89C16 3RHet	1450511	1538511	estimated_end	1450511
	located_end	1538511		

CH321-89D05 X	2330989	2418989	estimated_end	2330989
located_end	2418989			
CH321-89D08 3R	4797161	4885161	estimated_end	4797161
located_end	4885161			
CH321-89D10 3R	12439284	12527284	estimated_end	12439284
located_end	12527284			
CH321-89D11 2R	15428946	15516946	estimated_end	15428946
located_end	15516946			
CH321-89D20 2L	18577447	18665447	estimated_end	18577447
located_end	18665447			
CH321-89E08 3R	4359139	4447139	estimated_end	4359139
located_end	4447139			
CH321-89E10 2L	1602725	1690725	estimated_end	1602725
located_end	1690725			
CH321-89E11 2R	10399127	10487127	located_end	10399127
estimated_end	10487127			
CH321-89E14 3L	9253982	9341982	located_end	9253982
estimated_end	9341982			
CH321-89E18 3R	27520079	27608079	estimated_end	27520079
located_end	27608079			
CH321-89F11 ArmU	6972265	7060265	estimated_end	6972265
located_end	7060265			
CH321-89F12 X	13349912	13437912	estimated_end	13349912
located_end	13437912			
CH321-89F14 2L	4273853	4361853	estimated_end	4273853
located_end	4361853			
CH321-89F15 2R	3230317	3318317	estimated_end	3230317
located_end	3318317			
CH321-89F21 3L	6279655	6367655	estimated_end	6279655
located_end	6367655			
CH321-89F23 3R	6125758	6213758	located_end	6125758
estimated_end	6213758			
CH321-89G15 3L	4594889	4682889	estimated_end	4594889
located_end	4682889			
CH321-89G17 X	8082096	8170096	located_end	8082096
estimated_end	8170096			
CH321-89G22 2L	22509837	22597837	estimated_end	22509837
located_end	22597837			
CH321-89G24 X	9919026	10007026	located_end	9919026
estimated_end	10007026			
CH321-89H07 2R	8811128	8899128	estimated_end	8811128
located_end	8899128			
CH321-89H13 3L	7154429	7242429	located_end	7154429
estimated_end	7242429			
CH321-89H16 2L	9723803	9811803	located_end	9723803
estimated_end	9811803			
CH321-89H18 2L	13484362	13572362	located_end	13484362
estimated_end	13572362			
CH321-89H22 2L	15110266	15198266	located_end	15110266
estimated_end	15198266			
CH321-89H23 2R	5295395	5383395	estimated_end	5295395
located_end	5383395			
CH321-89H24 3L	19857188	19945188	located_end	19857188
estimated_end	19945188			

CH321-89I04 2R	19937806	20025806	located_end 19937806
estimated_end	20025806		
CH321-89I07 2R	13402756	13490756	located_end 13402756
estimated_end	13490756		
CH321-89I10 2L	17908301	17996301	estimated_end 17908301
located_end	17996301		
CH321-89I11 3R	2273342	2361342	located_end 2273342
estimated_end	2361342		
CH321-89I12 X	6056787	6144787	located_end 6056787
estimated_end	6144787		
CH321-89I13 2R	7747794	7835794	estimated_end 7747794
located_end	7835794		
CH321-89I14 2L	10208184	10296184	located_end 10208184
estimated_end	10296184		
CH321-89I17 3L	1315827	1403827	located_end 1315827
estimated_end	1403827		
CH321-89I19 3L	5274697	5362697	located_end 5274697
estimated_end	5362697		
CH321-89I20 2R	2091981	2179981	estimated_end 2091981
located_end	2179981		
CH321-89I21 3R	15852408	15940408	located_end 15852408
estimated_end	15940408		
CH321-89J01 3L	13674021	13762021	located_end 13674021
estimated_end	13762021		
CH321-89J02 3R	14401121	14489121	estimated_end 14401121
located_end	14489121		
CH321-89J05 2L	6246470	6334470	estimated_end 6246470
located_end	6334470		
CH321-89J07 X	7429853	7517853	estimated_end 7429853
located_end	7517853		
CH321-89J08 3R	15115204	15203204	located_end 15115204
estimated_end	15203204		
CH321-89J16 3R	10614125	10702125	estimated_end 10614125
located_end	10702125		
CH321-89J20 3R	11839488	11927488	estimated_end 11839488
located_end	11927488		
CH321-89J21 X	11684857	11772857	located_end 11684857
estimated_end	11772857		
CH321-89J22 2L	7096397	7184397	located_end 7096397
estimated_end	7184397		
CH321-89K16 2R	14954927	15042927	estimated_end 14954927
located_end	15042927		
CH321-89K22 3R	2825370	2913370	located_end 2825370
estimated_end	2913370		
CH321-89K23 3R	12181515	12269515	estimated_end 12181515
located_end	12269515		
CH321-89K24 2R	20970525	21058525	estimated_end 20970525
located_end	21058525		
CH321-89L05 2R	4180198	4268198	estimated_end 4180198
located_end	4268198		
CH321-89L22 3LHet	457652	545652	located_end 457652
estimated_end	545652		
CH321-89L23 2L	16358198	16446198	located_end 16358198
estimated_end	16446198		

CH321-89M08 2L	17268953	17356953	located_end 17268953
	estimated_end	17356953	
CH321-89M13 3L	4715724	4803724	located_end 4715724
	estimated_end	4803724	
CH321-89M14 3R	19186004	19274004	located_end 19186004
	estimated_end	19274004	
CH321-89M17 X	8576691	8664691	located_end 8576691
	estimated_end	8664691	
CH321-89M18 2L	19561441	19649441	estimated_end 19561441
	located_end	19649441	
CH321-89M19 2R	12344809	12432809	located_end 12344809
	estimated_end	12432809	
CH321-89M20 3RHet	2128484	2216484	located_end 2128484
	estimated_end	2216484	
CH321-89M22 X	10381627	10469627	located_end 10381627
	estimated_end	10469627	
CH321-89M23 X	5388397	5476397	located_end 5388397
	estimated_end	5476397	
CH321-89N07 2R	804779	892779	estimated_end 804779
	located_end	892779	
CH321-89N10 3L	24029752	24117752	estimated_end 24029752
	located_end	24117752	
CH321-89N11 2L	6331116	6419116	located_end 6331116
	estimated_end	6419116	
CH321-89N12 3L	17986813	18074813	estimated_end 17986813
	located_end	18074813	
CH321-89N13 3L	5407995	5495995	estimated_end 5407995
	located_end	5495995	
CH321-89N15 3L	14205676	14293676	located_end 14205676
	estimated_end	14293676	
CH321-89N16 3R	13344222	13432222	located_end 13344222
	estimated_end	13432222	
CH321-89N17 3R	2206472	2294472	located_end 2206472
	estimated_end	2294472	
CH321-89N20 3L	11775663	11863663	located_end 11775663
	estimated_end	11863663	
CH321-89N21 2R	11652627	11740627	estimated_end 11652627
	located_end	11740627	
CH321-89N22 2R	7116328	7204328	estimated_end 7116328
	located_end	7204328	
CH321-89N23 2L	8109558	8197558	located_end 8109558
	estimated_end	8197558	
CH321-89N24 3LHet	2456631	2544631	located_end 2456631
	estimated_end	2544631	
CH321-89O14 2R	11732841	11820841	located_end 11732841
	estimated_end	11820841	
CH321-89O15 X	20977000	21065000	located_end 20977000
	estimated_end	21065000	
CH321-89O17 3R	7509703	7597703	located_end 7509703
	estimated_end	7597703	
CH321-89O18 2L	11734276	11822276	located_end 11734276
	estimated_end	11822276	
CH321-89O19 3R	17876421	17964421	estimated_end 17876421
	located_end	17964421	

CH321-89O20 2L	10432130	10520130	located_end	10432130
	estimated_end	10520130		
CH321-89P03 ArmU	2542919	2630919	located_end	2542919
	estimated_end	2630919		
CH321-89P09 X	11525564	11613564	estimated_end	11525564
	located_end	11613564		
CH321-89P12 ArmU	9708440	9796440	estimated_end	9708440
	located_end	9796440		
CH321-89P13 2R	1205160	1293160	located_end	1205160
	estimated_end	1293160		
CH321-89P24 X	17985289	18073289	estimated_end	17985289
	located_end	18073289		
CH321-90A05 3L	4375292	4463292	estimated_end	4375292
	located_end	4463292		
CH321-90A12 3L	9986972	10074972	estimated_end	9986972
	located_end	10074972		
CH321-90A13 2L	22428897	22516897	located_end	22428897
	estimated_end	22516897		
CH321-90A14 X	11616283	11704283	located_end	11616283
	estimated_end	11704283		
CH321-90B05 2R	12127275	12215275	estimated_end	12127275
	located_end	12215275		
CH321-90B06 3R	25581723	25669723	located_end	25581723
	estimated_end	25669723		
CH321-90B07 3L	2250571	2338571	located_end	2250571
	estimated_end	2338571		
CH321-90B08 X	11251113	11339113	estimated_end	11251113
	located_end	11339113		
CH321-90B12 3R	495723	583723	estimated_end	495723
	located_end	583723		
CH321-90B13 2L	11017576	11105576	located_end	11017576
	estimated_end	11105576		
CH321-90B21 X	2602820	2690820	estimated_end	2602820
	located_end	2690820		
CH321-90C06 X	21097504	21185504	estimated_end	21097504
	located_end	21185504		
CH321-90C07 2L	2526311	2614311	estimated_end	2526311
	located_end	2614311		
CH321-90C08 3R	3744639	3832639	estimated_end	3744639
	located_end	3832639		
CH321-90C10 3L	10480530	10568530	located_end	10480530
	estimated_end	10568530		
CH321-90C12 2R	5953241	6041241	estimated_end	5953241
	located_end	6041241		
CH321-90C14 X	21180341	21268341	estimated_end	21180341
	located_end	21268341		
CH321-90C17 2R	8591878	8679878	located_end	8591878
	estimated_end	8679878		
CH321-90C23 3R	3533936	3621936	estimated_end	3533936
	located_end	3621936		
CH321-90D01 X	3300242	3388242	located_end	3300242
	estimated_end	3388242		
CH321-90D07 2R	12233873	12321873	estimated_end	12233873
	located_end	12321873		

CH321-90D08 2R	13980633	14068633	located_end	13980633
	estimated_end	14068633		
CH321-90D15 3R	15371961	15459961	estimated_end	15371961
	located_end	15459961		
CH321-90D16 3R	18228519	18316519	located_end	18228519
	estimated_end	18316519		
CH321-90D20 2R	13164351	13252351	located_end	13164351
	estimated_end	13252351		
CH321-90D24 3R	18281034	18369034	estimated_end	18281034
	located_end	18369034		
CH321-90E05 2R	1292301	1380301	estimated_end	1292301
	located_end	1380301		
CH321-90E10 3R	21633842	21721842	located_end	21633842
	estimated_end	21721842		
CH321-90E13 ArmU	8433127	8521127	located_end	8433127
	estimated_end	8521127		
CH321-90E17 3L	14202085	14290085	estimated_end	14202085
	located_end	14290085		
CH321-90E18 3R	9105575	9193575	located_end	9105575
	estimated_end	9193575		
CH321-90E19 3L	20254659	20342659	located_end	20254659
	estimated_end	20342659		
CH321-90E22 3R	17991690	18079690	located_end	17991690
	estimated_end	18079690		
CH321-90F03 3L	13725603	13813603	located_end	13725603
	estimated_end	13813603		
CH321-90F08 2R	6045727	6133727	estimated_end	6045727
	located_end	6133727		
CH321-90F19 3L	10089411	10177411	estimated_end	10089411
	located_end	10177411		
CH321-90F23 X	313658	401658	estimated_end	313658
	located_end	401658		
CH321-90G04 2L	20786895	20874895	located_end	20786895
	estimated_end	20874895		
CH321-90G11 ArmU	9708448	9796448	estimated_end	9708448
	located_end	9796448		
CH321-90G14 3R	12870277	12958277	located_end	12870277
	estimated_end	12958277		
CH321-90G16 3L	19192198	19280198	located_end	19192198
	estimated_end	19280198		
CH321-90G18 3L	23748697	23836697	estimated_end	23748697
	located_end	23836697		
CH321-90H01 3R	27687534	27775534	located_end	27687534
	estimated_end	27775534		
CH321-90H04 3R	23641726	23729726	located_end	23641726
	estimated_end	23729726		
CH321-90H06 2R	6633777	6721777	estimated_end	6633777
	located_end	6721777		
CH321-90H09 2R	8660685	8748685	located_end	8660685
	estimated_end	8748685		
CH321-90H11 ArmU	7972018	8060018	located_end	7972018
	estimated_end	8060018		
CH321-90H15 3R	9431260	9519260	located_end	9431260
	estimated_end	9519260		

CH321-90H16 3L	15749967	15837967	located_end	15749967
	estimated_end	15837967		
CH321-90H18 3R	19059244	19147244	estimated_end	19059244
	located_end	19147244		
CH321-90H19 X	6629791	6717791	estimated_end	6629791
	located_end	6717791		
CH321-90I02 3LHet	677024	765024	located_end	677024
	estimated_end	765024		
CH321-90I04 3R	19343435	19431435	estimated_end	19343435
	located_end	19431435		
CH321-90I06 3L	84644	172644	located_end	84644
	estimated_end	172644		
CH321-90I12 2L	7035845	7123845	estimated_end	7035845
	located_end	7123845		
CH321-90I15 2R	12772184	12860184	estimated_end	12772184
	located_end	12860184		
CH321-90I24 X	14303572	14391572	located_end	14303572
	estimated_end	14391572		
CH321-90J08 2R	5476752	5564752	estimated_end	5476752
	located_end	5564752		
CH321-90J12 2R	2093654	2181654	estimated_end	2093654
	located_end	2181654		
CH321-90J14 3L	12055051	12143051	estimated_end	12055051
	located_end	12143051		
CH321-90J15 2R	12765732	12853732	located_end	12765732
	estimated_end	12853732		
CH321-90J18 3L	19692326	19780326	located_end	19692326
	estimated_end	19780326		
CH321-90J21 3L	16927526	17015526	estimated_end	16927526
	located_end	17015526		
CH321-90K02 ArmU	5764420	5852420	located_end	5764420
	estimated_end	5852420		
CH321-90K03 2R	18196961	18284961	estimated_end	18196961
	located_end	18284961		
CH321-90K04 3R	20191172	20279172	located_end	20191172
	estimated_end	20279172		
CH321-90K14 X	8217059	8305059	located_end	8217059
	estimated_end	8305059		
CH321-90L08 2L	16596349	16684349	located_end	16596349
	estimated_end	16684349		
CH321-90L11 2L	1433276	1521276	estimated_end	1433276
	located_end	1521276		
CH321-90L14 2R	15288084	15376084	located_end	15288084
	estimated_end	15376084		
CH321-90L17 X	9239384	9327384	estimated_end	9239384
	located_end	9327384		
CH321-90L18 2L	16358198	16446198	located_end	16358198
	estimated_end	16446198		
CH321-90L20 2L	3366419	3454419	located_end	3366419
	estimated_end	3454419		
CH321-90L22 3R	22556495	22644495	estimated_end	22556495
	located_end	22644495		
CH321-90M02 3RHet	569407	657407	located_end	569407
	estimated_end	657407		

CH321-90M03 X	18600200	18688200	estimated_end	18600200
	located_end	18688200		
CH321-90M07 2L	2289450	2377450	located_end	2289450
	estimated_end	2377450		
CH321-90M08 3R	12135650	12223650	estimated_end	12135650
	located_end	12223650		
CH321-90M10 3L	15487717	15575717	estimated_end	15487717
	located_end	15575717		
CH321-90M11 3R	25384255	25472255	located_end	25384255
	estimated_end	25472255		
CH321-90M12 3L	21402690	21490690	located_end	21402690
	estimated_end	21490690		
CH321-90M16 2L	9645692	9733692	located_end	9645692
	estimated_end	9733692		
CH321-90M17 2R	18403001	18491001	estimated_end	18403001
	located_end	18491001		
CH321-90M19 2L	4241016	4329016	located_end	4241016
	estimated_end	4329016		
CH321-90M20 3L	20696288	20784288	located_end	20696288
	estimated_end	20784288		
CH321-90M22 3L	2928721	3016721	estimated_end	2928721
	located_end	3016721		
CH321-90M23 3R	25225045	25313045	located_end	25225045
	estimated_end	25313045		
CH321-90N02 3R	17489901	17577901	estimated_end	17489901
	located_end	17577901		
CH321-90N05 3L	2478966	2566966	estimated_end	2478966
	located_end	2566966		
CH321-90N12 3L	15429971	15517971	estimated_end	15429971
	located_end	15517971		
CH321-90N19 2R	11905592	11993592	located_end	11905592
	estimated_end	11993592		
CH321-90N24 3R	27640858	27728858	located_end	27640858
	estimated_end	27728858		
CH321-90O03 3R	6301071	6389071	estimated_end	6301071
	located_end	6389071		
CH321-90O12 2L	10597019	10685019	estimated_end	10597019
	located_end	10685019		
CH321-90O13 2L	6561822	6649822	located_end	6561822
	estimated_end	6649822		
CH321-90O17 3R	11114132	11202132	estimated_end	11114132
	located_end	11202132		
CH321-90O18 3L	20829229	20917229	located_end	20829229
	estimated_end	20917229		
CH321-90P02 2L	11793344	11881344	located_end	11793344
	estimated_end	11881344		
CH321-90P04 X	152672	240672	estimated_end	152672
	located_end	240672		
CH321-90P08 2R	9315839	9403839	estimated_end	9315839
	located_end	9403839		
CH321-90P10 3R	26184170	26272170	located_end	26184170
	estimated_end	26272170		
CH321-90P13 3R	21319362	21407362	located_end	21319362
	estimated_end	21407362		

CH321-90P15 3L	17720843	17808843	located_end	17720843
	estimated_end	17808843		
CH321-90P16 X	2200983	2288983	estimated_end	2200983
	located_end	2288983		
CH321-90P18 3L	992257	1080257	estimated_end	992257
	located_end	1080257		
CH321-90P19 2R	16794033	16882033	located_end	16794033
	estimated_end	16882033		
CH321-91A03 3R	18704136	18792136	estimated_end	18704136
	located_end	18792136		
CH321-91A05 3R	22018724	22106724	located_end	22018724
	estimated_end	22106724		
CH321-91A06 3R	15856467	15944467	located_end	15856467
	estimated_end	15944467		
CH321-91A09 2R	15643457	15731457	estimated_end	15643457
	located_end	15731457		
CH321-91A18 ArmU	2927804	3015804	located_end	2927804
	estimated_end	3015804		
CH321-91A20 ArmU	7175097	7263097	located_end	7175097
	estimated_end	7263097		
CH321-91B03 3R	19983846	20071846	located_end	19983846
	estimated_end	20071846		
CH321-91B05 3R	4338054	4426054	located_end	4338054
	estimated_end	4426054		
CH321-91B09 2R	12068527	12156527	located_end	12068527
	estimated_end	12156527		
CH321-91B20 3RHet	28200	116200	located_end	28200
	116200		estimated_end	
CH321-91C04 3R	26069873	26157873	estimated_end	26069873
	located_end	26157873		
CH321-91C06 X	6357115	6445115	estimated_end	6357115
	located_end	6445115		
CH321-91C07 2R	13118707	13206707	estimated_end	13118707
	located_end	13206707		
CH321-91C09 2R	8831360	8919360	estimated_end	8831360
	located_end	8919360		
CH321-91C10 3L	4936197	5024197	located_end	4936197
	estimated_end	5024197		
CH321-91C12 2L	2671415	2759415	estimated_end	2671415
	located_end	2759415		
CH321-91C13 X	8496704	8584704	located_end	8496704
	estimated_end	8584704		
CH321-91C17 2R	18221554	18309554	estimated_end	18221554
	located_end	18309554		
CH321-91C19 X	17766526	17854526	located_end	17766526
	estimated_end	17854526		
CH321-91D02 3L	10896884	10984884	estimated_end	10896884
	located_end	10984884		
CH321-91D08 X	5107561	5195561	estimated_end	5107561
	located_end	5195561		
CH321-91D11 X	20667797	20755797	located_end	20667797
	estimated_end	20755797		
CH321-91D12 3R	5481526	5569526	located_end	5481526
	estimated_end	5569526		

CH321-91D15 2L	10872507	10960507	located_end	10872507
	estimated_end	10960507		
CH321-91D16 X	7874120	7962120	estimated_end	7874120
	located_end	7962120		
CH321-91D17 2R	17587550	17675550	estimated_end	17587550
	located_end	17675550		
CH321-91D22 ArmU	5698295	5786295	located_end	5698295
	estimated_end	5786295		
CH321-91E04 3L	4582872	4670872	located_end	4582872
	estimated_end	4670872		
CH321-91E06 2R	6451558	6539558	located_end	6451558
	estimated_end	6539558		
CH321-91E07 3L	13689123	13777123	located_end	13689123
	estimated_end	13777123		
CH321-91E10 2L	14266968	14354968	estimated_end	14266968
	located_end	14354968		
CH321-91E14 3L	15245966	15333966	located_end	15245966
	estimated_end	15333966		
CH321-91E17 3L	10118944	10206944	located_end	10118944
	estimated_end	10206944		
CH321-91F01 2L	10132359	10220359	estimated_end	10132359
	located_end	10220359		
CH321-91F04 X	1749022	1837022	estimated_end	1749022
	located_end	1837022		
CH321-91F08 3L	18522218	18610218	estimated_end	18522218
	located_end	18610218		
CH321-91F09 2R	4181171	4269171	estimated_end	4181171
	located_end	4269171		
CH321-91F18 3L	9356036	9444036	estimated_end	9356036
	located_end	9444036		
CH321-91F19 3R	1731724	1819724	estimated_end	1731724
	located_end	1819724		
CH321-91F20 XHet	183766	271766	located_end	183766
	estimated_end	271766		
CH321-91G01 3L	4941843	5029843	located_end	4941843
	estimated_end	5029843		
CH321-91G02 3L	16409530	16497530	located_end	16409530
	estimated_end	16497530		
CH321-91G05 3L	14855379	14943379	estimated_end	14855379
	located_end	14943379		
CH321-91G07 2L	3613071	3701071	located_end	3613071
	estimated_end	3701071		
CH321-91G10 3R	6887927	6975927	located_end	6887927
	estimated_end	6975927		
CH321-91G12 3L	16995870	17083870	located_end	16995870
	estimated_end	17083870		
CH321-91G13 X	1903859	1991859	estimated_end	1903859
	located_end	1991859		
CH321-91G22 3L	9579888	9667888	located_end	9579888
	estimated_end	9667888		
CH321-91G23 2L	1639554	1727554	estimated_end	1639554
	located_end	1727554		
CH321-91H01 3L	23677754	23765754	located_end	23677754
	estimated_end	23765754		

CH321-91H10 3L	7008114	7096114	estimated_end	7008114
	located_end	7096114		
CH321-91H12 X	18014469	18102469	estimated_end	18014469
	located_end	18102469		
CH321-91H14 2R	11322817	11410817	estimated_end	11322817
	located_end	11410817		
CH321-91I02 3L	19856616	19944616	estimated_end	19856616
	located_end	19944616		
CH321-91I08 3L	15490145	15578145	located_end	15490145
	estimated_end	15578145		
CH321-91I12 3R	25237880	25325880	located_end	25237880
	estimated_end	25325880		
CH321-91I14 3R	27257988	27345988	located_end	27257988
	estimated_end	27345988		
CH321-91I16 X	11056384	11144384	estimated_end	11056384
	located_end	11144384		
CH321-91I21 3R	21278536	21366536	located_end	21278536
	estimated_end	21366536		
CH321-91J01 X	18889102	18977102	estimated_end	18889102
	located_end	18977102		
CH321-91J05 3R	21359253	21447253	located_end	21359253
	estimated_end	21447253		
CH321-91J07 2R	6890115	6978115	estimated_end	6890115
	located_end	6978115		
CH321-91J08 2L	15691339	15779339	estimated_end	15691339
	located_end	15779339		
CH321-91K07 2L	4689202	4777202	located_end	4689202
	estimated_end	4777202		
CH321-91K08 3R	9040633	9128633	located_end	9040633
	estimated_end	9128633		
CH321-91K17 X	5347299	5435299	estimated_end	5347299
	located_end	5435299		
CH321-91K24 ArmU	9385112	9473112	estimated_end	9385112
	located_end	9473112		
CH321-91L02 2L	21633782	21721782	estimated_end	21633782
	located_end	21721782		
CH321-91L03 X	14616597	14704597	estimated_end	14616597
	located_end	14704597		
CH321-91L04 2L	13069054	13157054	located_end	13069054
	estimated_end	13157054		
CH321-91L12 3R	27288472	27376472	estimated_end	27288472
	located_end	27376472		
CH321-91L14 2R	1609903	1697903	estimated_end	1609903
	located_end	1697903		
CH321-91L16 3L	20892567	20980567	estimated_end	20892567
	located_end	20980567		
CH321-91L18 3R	12598962	12686962	located_end	12598962
	estimated_end	12686962		
CH321-91L19 3R	5811796	5899796	estimated_end	5811796
	located_end	5899796		
CH321-91L23 2L	2873956	2961956	estimated_end	2873956
	located_end	2961956		
CH321-91M06 2L	13546469	13634469	estimated_end	13546469
	located_end	13634469		

CH321-91M09 3L	4853012	4941012	estimated_end	4853012
	located_end	4941012		
CH321-91M11 3R	24777562	24865562	located_end	24777562
	estimated_end	24865562		
CH321-91M14 2L	14637128	14725128	estimated_end	14637128
	located_end	14725128		
CH321-91M16 2R	766573	854573	estimated_end	766573
	located_end	854573		
CH321-91M18 2L	877144	965144	estimated_end	877144
	located_end	965144		
CH321-91M23 2R	3211292	3299292	estimated_end	3211292
	located_end	3299292		
CH321-91N06 3LHet	786466	874466	estimated_end	786466
	located_end	874466		
CH321-91N07 2L	8597771	8685771	estimated_end	8597771
	located_end	8685771		
CH321-91N10 2L	17646363	17734363	estimated_end	17646363
	located_end	17734363		
CH321-91N11 3R	5699773	5787773	located_end	5699773
	estimated_end	5787773		
CH321-91N13 3L	12956262	13044262	estimated_end	12956262
	located_end	13044262		
CH321-91N20 3R	22189490	22277490	located_end	22189490
	estimated_end	22277490		
CH321-91N22 ArmU	4703676	4791676	located_end	4703676
	estimated_end	4791676		
CH321-91O01 ArmU	3470770	3558770	estimated_end	3470770
	located_end	3558770		
CH321-91O03 3L	8184725	8272725	located_end	8184725
	estimated_end	8272725		
CH321-91O04 3R	16493370	16581370	located_end	16493370
	estimated_end	16581370		
CH321-91O07 2L	12525443	12613443	estimated_end	12525443
	located_end	12613443		
CH321-91O08 3R	24195757	24283757	estimated_end	24195757
	located_end	24283757		
CH321-91O15 X	14500585	14588585	located_end	14500585
	estimated_end	14588585		
CH321-91O20 3L	11633729	11721729	located_end	11633729
	estimated_end	11721729		
CH321-91O22 2L	20173361	20261361	estimated_end	20173361
	located_end	20261361		
CH321-91O23 3L	108204	196204	estimated_end	108204
	located_end	196204		
CH321-91P01 X	19893331	19981331	located_end	19893331
	estimated_end	19981331		
CH321-91P02 3R	25010754	25098754	estimated_end	25010754
	located_end	25098754		
CH321-91P08 X	18617052	18705052	located_end	18617052
	estimated_end	18705052		
CH321-91P11 2R	9010864	9098864	located_end	9010864
	estimated_end	9098864		
CH321-91P16 2R	840429	928429	located_end	840429
	estimated_end	928429		

CH321-92A13 X	13749480	13837480	located_end	13749480
	estimated_end	13837480		
CH321-92A15 2R	7775455	7863455	estimated_end	7775455
	located_end	7863455		
CH321-92A16 3R	12666458	12754458	located_end	12666458
	estimated_end	12754458		
CH321-92A18 2L	12592587	12680587	located_end	12592587
	estimated_end	12680587		
CH321-92A22 X	9639555	9727555	estimated_end	9639555
	located_end	9727555		
CH321-92B06 2L	17174202	17262202	located_end	17174202
	estimated_end	17262202		
CH321-92B07 2L	22011998	22099998	estimated_end	22011998
	located_end	22099998		
CH321-92B10 3L	12783230	12871230	estimated_end	12783230
	located_end	12871230		
CH321-92B12 2L	1955748	2043748	estimated_end	1955748
	located_end	2043748		
CH321-92B13 2R	11674820	11762820	located_end	11674820
	estimated_end	11762820		
CH321-92B14 3R	21507159	21595159	located_end	21507159
	estimated_end	21595159		
CH321-92B15 X	5020037	5108037	located_end	5020037
	estimated_end	5108037		
CH321-92B20 X	5692723	5780723	estimated_end	5692723
	located_end	5780723		
CH321-92B22 3L	11641017	11729017	estimated_end	11641017
	located_end	11729017		
CH321-92C02 2L	4550543	4638543	located_end	4550543
	estimated_end	4638543		
CH321-92C04 X	18376580	18464580	located_end	18376580
	estimated_end	18464580		
CH321-92C10 3R	22583779	22671779	estimated_end	22583779
	located_end	22671779		
CH321-92C11 2R	16540525	16628525	located_end	16540525
	estimated_end	16628525		
CH321-92C12 3L	14025902	14113902	located_end	14025902
	estimated_end	14113902		
CH321-92C13 X	19503107	19591107	located_end	19503107
	estimated_end	19591107		
CH321-92C14 3L	7825226	7913226	located_end	7825226
	estimated_end	7913226		
CH321-92C15 2L	14708048	14796048	located_end	14708048
	estimated_end	14796048		
CH321-92C16 2L	6885297	6973297	estimated_end	6885297
	located_end	6973297		
CH321-92C20 3R	13965357	14053357	estimated_end	13965357
	located_end	14053357		
CH321-92C22 3R	18949599	19037599	located_end	18949599
	estimated_end	19037599		
CH321-92C23 3R	367182	455182	estimated_end	367182
	located_end	455182		
CH321-92C24 2L	3189444	3277444	located_end	3189444
	estimated_end	3277444		

CH321-92D01 2L	9089161	9177161	estimated_end	9089161
	located_end	9177161		
CH321-92D06 3L	9829821	9917821	located_end	9829821
	estimated_end	9917821		
CH321-92D08 2R	185275	273275	located_end	185275
	estimated_end	273275		
CH321-92D11 3L	15479410	15567410	estimated_end	15479410
	located_end	15567410		
CH321-92D13 2L	14793004	14881004	estimated_end	14793004
	located_end	14881004		
CH321-92D21 2R	6997791	7085791	estimated_end	6997791
	located_end	7085791		
CH321-92D22 3LHet	1407427	1495427	estimated_end	1407427
	located_end	1495427		
CH321-92D23 3L	13474473	13562473	estimated_end	13474473
	located_end	13562473		
CH321-92E04 3R	13632798	13720798	located_end	13632798
	estimated_end	13720798		
CH321-92E05 3L	11484309	11572309	located_end	11484309
	estimated_end	11572309		
CH321-92E08 2R	2614048	2702048	located_end	2614048
	estimated_end	2702048		
CH321-92E10 2L	18031785	18119785	located_end	18031785
	estimated_end	18119785		
CH321-92E19 3R	7886514	7974514	located_end	7886514
	estimated_end	7974514		
CH321-92E23 3R	1097901	1185901	estimated_end	1097901
	located_end	1185901		
CH321-92E24 2L	13536972	13624972	estimated_end	13536972
	located_end	13624972		
CH321-92F14 3L	1960652	2048652	located_end	1960652
	estimated_end	2048652		
CH321-92F16 2L	2264534	2352534	estimated_end	2264534
	located_end	2352534		
CH321-92F19 3R	21482161	21570161	located_end	21482161
	estimated_end	21570161		
CH321-92F21 X	13092653	13180653	located_end	13092653
	estimated_end	13180653		
CH321-92F22 2R	17077290	17165290	estimated_end	17077290
	located_end	17165290		
CH321-92F23 3R	2988654	3076654	located_end	2988654
	estimated_end	3076654		
CH321-92G01 3R	5622513	5710513	located_end	5622513
	estimated_end	5710513		
CH321-92G03 3L	5122912	5210912	located_end	5122912
	estimated_end	5210912		
CH321-92G05 3L	16496990	16584990	located_end	16496990
	estimated_end	16584990		
CH321-92G10 3R	10752576	10840576	estimated_end	10752576
	located_end	10840576		
CH321-92G14 3L	5410841	5498841	estimated_end	5410841
	located_end	5498841		
CH321-92G17 3R	24192786	24280786	located_end	24192786
	estimated_end	24280786		

CH321-92G18 2R	19225729	19313729	located_end	19225729
	estimated_end	19313729		
CH321-92G22 X	4063484	4151484	located_end	4063484
	estimated_end	4151484		
CH321-92G24 2L	18477621	18565621	located_end	18477621
	estimated_end	18565621		
CH321-92H01 3L	16922320	17010320	estimated_end	16922320
	located_end	17010320		
CH321-92H03 2L	19654789	19742789	estimated_end	19654789
	located_end	19742789		
CH321-92H04 3L	5656901	5744901	estimated_end	5656901
	located_end	5744901		
CH321-92H06 2L	11743539	11831539	located_end	11743539
	estimated_end	11831539		
CH321-92H07 2R	6500649	6588649	estimated_end	6500649
	located_end	6588649		
CH321-92H10 2L	16511223	16599223	estimated_end	16511223
	located_end	16599223		
CH321-92H16 3R	19051654	19139654	estimated_end	19051654
	located_end	19139654		
CH321-92H20 3L	1393178	1481178	located_end	1393178
	estimated_end	1481178		
CH321-92H21 3R	16151869	16239869	located_end	16151869
	estimated_end	16239869		
CH321-92I02 3R	11773500	11861500	estimated_end	11773500
	located_end	11861500		
CH321-92I04 3R	10828546	10916546	located_end	10828546
	estimated_end	10916546		
CH321-92I07 2L	16932287	17020287	located_end	16932287
	estimated_end	17020287		
CH321-92I14 3L	23299651	23387651	located_end	23299651
	estimated_end	23387651		
CH321-92I16 2L	21995827	22083827	located_end	21995827
	estimated_end	22083827		
CH321-92I17 X	6746489	6834489	located_end	6746489
	estimated_end	6834489		
CH321-92I19 X	3412907	3500907	located_end	3412907
	estimated_end	3500907		
CH321-92J03 2R	18327941	18415941	located_end	18327941
	estimated_end	18415941		
CH321-92J04 3R	3431156	3519156	estimated_end	3431156
	located_end	3519156		
CH321-92J07 X	2328198	2416198	estimated_end	2328198
	located_end	2416198		
CH321-92J08 2L	3679408	3767408	located_end	3679408
	estimated_end	3767408		
CH321-92J10 2L	17217624	17305624	located_end	17217624
	estimated_end	17305624		
CH321-92J11 3L	7380168	7468168	located_end	7380168
	estimated_end	7468168		
CH321-92J13 2L	13014647	13102647	estimated_end	13014647
	located_end	13102647		
CH321-92J14 3R	2303952	2391952	estimated_end	2303952
	located_end	2391952		

CH321-92J21 2R	10258457	10346457	estimated_end	10258457
	located_end	10346457		
CH321-92K04 3L	12297370	12385370	located_end	12297370
	estimated_end	12385370		
CH321-92K09 2R	1983943	2071943	located_end	1983943
	estimated_end	2071943		
CH321-92K10 2R	4349646	4437646	estimated_end	4349646
	located_end	4437646		
CH321-92K11 3R	8193751	8281751	estimated_end	8193751
	located_end	8281751		
CH321-92K16 2R	11753106	11841106	located_end	11753106
	estimated_end	11841106		
CH321-92K21 3R	3507935	3595935	located_end	3507935
	estimated_end	3595935		
CH321-92K24 3L	7512188	7600188	estimated_end	7512188
	located_end	7600188		
CH321-92L10 3R	22391286	22479286	located_end	22391286
	estimated_end	22479286		
CH321-92L11 2R	15178345	15266345	estimated_end	15178345
	located_end	15266345		
CH321-92M04 2L	9235501	9323501	located_end	9235501
	estimated_end	9323501		
CH321-92M05 3L	4407845	4495845	located_end	4407845
	estimated_end	4495845		
CH321-92M09 3L	13136295	13224295	located_end	13136295
	estimated_end	13224295		
CH321-92M11 2R	864253	952253	estimated_end	864253
	located_end	952253		
CH321-92M12 3L	19166392	19254392	located_end	19166392
	estimated_end	19254392		
CH321-92M13 3R	11072681	11160681	estimated_end	11072681
	located_end	11160681		
CH321-92M14 ArmU	307029	395029	estimated_end	307029
	located_end	395029		
CH321-92M18 2R	8233506	8321506	located_end	8233506
	estimated_end	8321506		
CH321-92N07 X	12409517	12497517	estimated_end	12409517
	located_end	12497517		
CH321-92N11 X	9276156	9364156	located_end	9276156
	estimated_end	9364156		
CH321-92N12 2L	10879609	10967609	estimated_end	10879609
	located_end	10967609		
CH321-92N14 3L	358200	446200	estimated_end	358200
	located_end	446200		
CH321-92N16 2L	10065365	10153365	located_end	10065365
	estimated_end	10153365		
CH321-92N23 2L	3863600	3951600	estimated_end	3863600
	located_end	3951600		
CH321-92N24 3R	6620334	6708334	located_end	6620334
	estimated_end	6708334		
CH321-92O02 3R	16982538	17070538	located_end	16982538
	estimated_end	17070538		
CH321-92O03 2R	16278168	16366168	estimated_end	16278168
	located_end	16366168		

CH321-92O06 2R	14357634	14445634	estimated_end	14357634
	located_end	14445634		
CH321-92O10 3R	2472939	2560939	estimated_end	2472939
	located_end	2560939		
CH321-92O11 3R	5381681	5469681	located_end	5381681
	estimated_end	5469681		
CH321-92O15 2R	12226009	12314009	estimated_end	12226009
	located_end	12314009		
CH321-92O19 2L	9069085	9157085	estimated_end	9069085
	located_end	9157085		
CH321-92O23 2L	17591986	17679986	located_end	17591986
	estimated_end	17679986		
CH321-92O24 3R	17393932	17481932	located_end	17393932
	estimated_end	17481932		
CH321-92P07 3L	14287858	14375858	located_end	14287858
	estimated_end	14375858		
CH321-92P08 2L	9150147	9238147	located_end	9150147
	estimated_end	9238147		
CH321-93A02 3R	1462987	1550987	estimated_end	1462987
	located_end	1550987		
CH321-93A04 X	3412138	3500138	located_end	3412138
	estimated_end	3500138		
CH321-93A06 X	20309905	20397905	estimated_end	20309905
	located_end	20397905		
CH321-93A07 3L	3239585	3327585	estimated_end	3239585
	located_end	3327585		
CH321-93A09 X	4322513	4410513	located_end	4322513
	estimated_end	4410513		
CH321-93A11 3L	728099	816099	located_end	728099
	estimated_end	816099		
CH321-93A13 3R	18929137	19017137	located_end	18929137
	estimated_end	19017137		
CH321-93A14 3R	25256086	25344086	estimated_end	25256086
	located_end	25344086		
CH321-93B06 2L	19843120	19931120	estimated_end	19843120
	located_end	19931120		
CH321-93B07 2L	7404681	7492681	located_end	7404681
	estimated_end	7492681		
CH321-93B08 X	7499556	7587556	located_end	7499556
	estimated_end	7587556		
CH321-93B10 2R	17453228	17541228	estimated_end	17453228
	located_end	17541228		
CH321-93B11 3LHet	83412 171412		estimated_end	83412
	171412		located_end	
CH321-93B15 X	15119362	15207362	estimated_end	15119362
	located_end	15207362		
CH321-93B16 3L	371573	459573	estimated_end	371573
	located_end	459573		
CH321-93B17 X	9733677	9821677	located_end	9733677
	estimated_end	9821677		
CH321-93B18 3L	23934504	24022504	located_end	23934504
	estimated_end	24022504		
CH321-93B23 2L	10485028	10573028	located_end	10485028
	estimated_end	10573028		

CH321-93C04 X	17434910	17522910	estimated_end	17434910
	located_end	17522910		
CH321-93C05 2L	20096098	20184098	located_end	20096098
	estimated_end	20184098		
CH321-93C07 3L	10718333	10806333	estimated_end	10718333
	located_end	10806333		
CH321-93C09 3R	13037792	13125792	estimated_end	13037792
	located_end	13125792		
CH321-93C10 3R	14618177	14706177	located_end	14618177
	estimated_end	14706177		
CH321-93C11 2L	7836247	7924247	estimated_end	7836247
	located_end	7924247		
CH321-93C18 3L	2663701	2751701	estimated_end	2663701
	located_end	2751701		
CH321-93C20 X	17345646	17433646	located_end	17345646
	estimated_end	17433646		
CH321-93C21 3R	18281732	18369732	located_end	18281732
	estimated_end	18369732		
CH321-93D05 3L	20047496	20135496	estimated_end	20047496
	located_end	20135496		
CH321-93D06 3L	3341226	3429226	located_end	3341226
	estimated_end	3429226		
CH321-93D08 3L	20829229	20917229	located_end	20829229
	estimated_end	20917229		
CH321-93D10 2R	19528857	19616857	estimated_end	19528857
	located_end	19616857		
CH321-93D12 3L	20979053	21067053	estimated_end	20979053
	located_end	21067053		
CH321-93D14 3R	6389875	6477875	located_end	6389875
	estimated_end	6477875		
CH321-93D15 2L	10554188	10642188	estimated_end	10554188
	located_end	10642188		
CH321-93D17 3R	4722445	4810445	located_end	4722445
	estimated_end	4810445		
CH321-93E02 2L	13348375	13436375	located_end	13348375
	estimated_end	13436375		
CH321-93E04 2R	14571189	14659189	located_end	14571189
	estimated_end	14659189		
CH321-93E08 2R	12589495	12677495	located_end	12589495
	estimated_end	12677495		
CH321-93E10 2R	16686571	16774571	estimated_end	16686571
	located_end	16774571		
CH321-93E11 3RHet	871717	959717	located_end	871717
	estimated_end	959717		
CH321-93E24 3R	18799246	18887246	located_end	18799246
	estimated_end	18887246		
CH321-93F02 ArmU	1663637	1751637	located_end	1663637
	estimated_end	1751637		
CH321-93F04 2R	5441761	5529761	estimated_end	5441761
	located_end	5529761		
CH321-93F07 2R	20860610	20948610	located_end	20860610
	estimated_end	20948610		
CH321-93F09 2L	19883131	19971131	estimated_end	19883131
	located_end	19971131		

CH321-93F12 3R	8905278	8993278	estimated_end	8905278
	located_end	8993278		
CH321-93F13 3R	24707130	24795130	estimated_end	24707130
	located_end	24795130		
CH321-93F14 2RHet	2183203	2271203	estimated_end	2183203
	located_end	2271203		
CH321-93F15 2L	12939251	13027251	estimated_end	12939251
	located_end	13027251		
CH321-93F16 X	16288318	16376318	estimated_end	16288318
	located_end	16376318		
CH321-93F19 X	6575880	6663880	located_end	6575880
	estimated_end	6663880		
CH321-93F23 2R	17236134	17324134	estimated_end	17236134
	located_end	17324134		
CH321-93G07 X	14562713	14650713	estimated_end	14562713
	located_end	14650713		
CH321-93G09 2L	20468577	20556577	estimated_end	20468577
	located_end	20556577		
CH321-93G10 3L	8635673	8723673	estimated_end	8635673
	located_end	8723673		
CH321-93G11 3L	4843839	4931839	located_end	4843839
	estimated_end	4931839		
CH321-93G12 2R	1739931	1827931	estimated_end	1739931
	located_end	1827931		
CH321-93G13 2R	13808709	13896709	located_end	13808709
	estimated_end	13896709		
CH321-93G15 3L	19165145	19253145	located_end	19165145
	estimated_end	19253145		
CH321-93G16 X	2625784	2713784	estimated_end	2625784
	located_end	2713784		
CH321-93H03 3L	1812078	1900078	located_end	1812078
	estimated_end	1900078		
CH321-93H04 2L	20463218	20551218	located_end	20463218
	estimated_end	20551218		
CH321-93H05 X	8955172	9043172	located_end	8955172
	estimated_end	9043172		
CH321-93H06 3L	2269698	2357698	located_end	2269698
	estimated_end	2357698		
CH321-93H07 3R	24881866	24969866	estimated_end	24881866
	located_end	24969866		
CH321-93H15 3L	21345246	21433246	located_end	21345246
	estimated_end	21433246		
CH321-93H19 2L	14304066	14392066	located_end	14304066
	estimated_end	14392066		
CH321-93H20 X	16335205	16423205	estimated_end	16335205
	located_end	16423205		
CH321-93H24 3L	19132975	19220975	estimated_end	19132975
	located_end	19220975		
CH321-93I04 3L	23012323	23100323	estimated_end	23012323
	located_end	23100323		
CH321-93I12 3L	10337868	10425868	located_end	10337868
	estimated_end	10425868		
CH321-93I14 2L	7964518	8052518	estimated_end	7964518
	located_end	8052518		

CH321-93I15 3R	4255926	4343926	located_end	4255926
	estimated_end	4343926		
CH321-93I16 2L	11896029	11984029	estimated_end	11896029
	located_end	11984029		
CH321-93I18 3R	19222658	19310658	estimated_end	19222658
	located_end	19310658		
CH321-93I20 2L	7050507	7138507	located_end	7050507
	estimated_end	7138507		
CH321-93I24 3R	15324755	15412755	located_end	15324755
	estimated_end	15412755		
CH321-93J01 X	21828488	21916488	located_end	21828488
	estimated_end	21916488		
CH321-93J12 2R	5188740	5276740	located_end	5188740
	estimated_end	5276740		
CH321-93J13 2R	12491280	12579280	estimated_end	12491280
	located_end	12579280		
CH321-93J14 3R	24231728	24319728	estimated_end	24231728
	located_end	24319728		
CH321-93J15 2L	14880409	14968409	estimated_end	14880409
	located_end	14968409		
CH321-93J17 2R	3242703	3330703	located_end	3242703
	estimated_end	3330703		
CH321-93J19 X	12853903	12941903	estimated_end	12853903
	located_end	12941903		
CH321-93J23 3R	1757979	1845979	located_end	1757979
	estimated_end	1845979		
CH321-93J24 2L	16044155	16132155	located_end	16044155
	estimated_end	16132155		
CH321-93K01 3R	10487520	10575520	estimated_end	10487520
	located_end	10575520		
CH321-93K04 X	10404017	10492017	estimated_end	10404017
	located_end	10492017		
CH321-93K05 3L	2583906	2671906	estimated_end	2583906
	located_end	2671906		
CH321-93K11 2L	19772810	19860810	estimated_end	19772810
	located_end	19860810		
CH321-93K13 X	8251995	8339995	estimated_end	8251995
	located_end	8339995		
CH321-93K14 3L	18280214	18368214	located_end	18280214
	estimated_end	18368214		
CH321-93K16 X	21344513	21432513	located_end	21344513
	estimated_end	21432513		
CH321-93K23 3L	7346012	7434012	estimated_end	7346012
	located_end	7434012		
CH321-93K24 2R	16462052	16550052	located_end	16462052
	estimated_end	16550052		
CH321-93L02 3L	18386750	18474750	located_end	18386750
	estimated_end	18474750		
CH321-93L10 3R	26168810	26256810	located_end	26168810
	estimated_end	26256810		
CH321-93L13 2L	17924885	18012885	estimated_end	17924885
	located_end	18012885		
CH321-93L15 2R	5489355	5577355	estimated_end	5489355
	located_end	5577355		

CH321-93L20 X	22166028	22254028	located_end	22166028
	estimated_end	22254028		
CH321-93L23 3R	13790468	13878468	located_end	13790468
	estimated_end	13878468		
CH321-93M02 2R	18150173	18238173	located_end	18150173
	estimated_end	18238173		
CH321-93M03 2L	6458840	6546840	estimated_end	6458840
	located_end	6546840		
CH321-93M08 X	4024968	4112968	located_end	4024968
	estimated_end	4112968		
CH321-93M09 2R	8806008	8894008	located_end	8806008
	estimated_end	8894008		
CH321-93M10 2R	7075587	7163587	estimated_end	7075587
	located_end	7163587		
CH321-93N13 3R	17119812	17207812	estimated_end	17119812
	located_end	17207812		
CH321-93N15 2R	20270898	20358898	located_end	20270898
	estimated_end	20358898		
CH321-93N22 X	1433000	1521000	located_end	1433000
	estimated_end	1521000		
CH321-93N24 2L	20359885	20447885	located_end	20359885
	estimated_end	20447885		
CH321-93O04 2L	2858862	2946862	located_end	2858862
	estimated_end	2946862		
CH321-93O05 2L	16178580	16266580	estimated_end	16178580
	located_end	16266580		
CH321-93O07 3R	24444439	24532439	estimated_end	24444439
	located_end	24532439		
CH321-93O10 3L	19161712	19249712	estimated_end	19161712
	located_end	19249712		
CH321-93O11 2R	9465903	9553903	estimated_end	9465903
	located_end	9553903		
CH321-93O12 3R	4891611	4979611	estimated_end	4891611
	located_end	4979611		
CH321-93O14 2L	9614614	9702614	located_end	9614614
	estimated_end	9702614		
CH321-93O16 2R	16719449	16807449	located_end	16719449
	estimated_end	16807449		
CH321-93O17 ArmU	3398293	3486293	located_end	3398293
	estimated_end	3486293		
CH321-93O20 2R	7248907	7336907	estimated_end	7248907
	located_end	7336907		
CH321-93O21 3R	16253964	16341964	estimated_end	16253964
	located_end	16341964		
CH321-93O22 3L	21456481	21544481	estimated_end	21456481
	located_end	21544481		
CH321-93O24 2L	15800774	15888774	located_end	15800774
	estimated_end	15888774		
CH321-93P01 3R	21361005	21449005	located_end	21361005
	estimated_end	21449005		
CH321-93P09 3L	19039218	19127218	located_end	19039218
	estimated_end	19127218		
CH321-93P10 3L	6371771	6459771	estimated_end	6371771
	located_end	6459771		

CH321-93P13 X	16205020	16293020	located_end	16205020
	estimated_end	16293020		
CH321-93P14 2L	5457802	5545802	located_end	5457802
	estimated_end	5545802		
CH321-93P15 3L	15024856	15112856	estimated_end	15024856
	located_end	15112856		
CH321-94A07 2L	21989134	22077134	estimated_end	21989134
	located_end	22077134		
CH321-94A16 3R	9266861	9354861	located_end	9266861
	estimated_end	9354861		
CH321-94B02 2L	11655125	11743125	estimated_end	11655125
	located_end	11743125		
CH321-94B06 2R	17789876	17877876	estimated_end	17789876
	located_end	17877876		
CH321-94B08 2L	21290296	21378296	located_end	21290296
	estimated_end	21378296		
CH321-94B12 2R	16165228	16253228	estimated_end	16165228
	located_end	16253228		
CH321-94B22 2L	1072813	1160813	estimated_end	1072813
	located_end	1160813		
CH321-94C01 2L	22581667	22669667	located_end	22581667
	estimated_end	22669667		
CH321-94C09 3L	8480438	8568438	estimated_end	8480438
	located_end	8568438		
CH321-94C10 2R	7590590	7678590	located_end	7590590
	estimated_end	7678590		
CH321-94C14 ArmU	8392871	8480871	estimated_end	8392871
	located_end	8480871		
CH321-94C16 2R	19164334	19252334	located_end	19164334
	estimated_end	19252334		
CH321-94C17 2L	8057991	8145991	located_end	8057991
	estimated_end	8145991		
CH321-94C19 3L	1224518	1312518	estimated_end	1224518
	located_end	1312518		
CH321-94C23 2R	11499416	11587416	estimated_end	11499416
	located_end	11587416		
CH321-94D02 3R	23467092	23555092	located_end	23467092
	estimated_end	23555092		
CH321-94D08 3R	19566073	19654073	estimated_end	19566073
	located_end	19654073		
CH321-94D13 2R	14959832	15047832	located_end	14959832
	estimated_end	15047832		
CH321-94D21 3R	7939349	8027349	located_end	7939349
	estimated_end	8027349		
CH321-94D22 2L	21120097	21208097	estimated_end	21120097
	located_end	21208097		
CH321-94D23 3L	22547791	22635791	located_end	22547791
	estimated_end	22635791		
CH321-94E01 3L	8790357	8878357	located_end	8790357
	estimated_end	8878357		
CH321-94E08 3L	2285261	2373261	estimated_end	2285261
	located_end	2373261		
CH321-94E13 2R	13813415	13901415	located_end	13813415
	estimated_end	13901415		

CH321-94E15 3R	19022617	19110617	located_end	19022617
	estimated_end	19110617		
CH321-94E17 2R	12455322	12543322	located_end	12455322
	estimated_end	12543322		
CH321-94E18 2R	6540426	6628426	estimated_end	6540426
	located_end	6628426		
CH321-94E20 3R	470580	558580	estimated_end	470580
	located_end	558580		
CH321-94F03 2R	6033677	6121677	estimated_end	6033677
	located_end	6121677		
CH321-94F12 2R	18271672	18359672	located_end	18271672
	estimated_end	18359672		
CH321-94F13 3R	20222674	20310674	located_end	20222674
	estimated_end	20310674		
CH321-94F16 3L	23658851	23746851	located_end	23658851
	estimated_end	23746851		
CH321-94F19 3L	7485535	7573535	located_end	7485535
	estimated_end	7573535		
CH321-94G05 2L	12475032	12563032	located_end	12475032
	estimated_end	12563032		
CH321-94G06 X	14707976	14795976	estimated_end	14707976
	located_end	14795976		
CH321-94G07 2R	10263652	10351652	located_end	10263652
	estimated_end	10351652		
CH321-94G09 X	3274830	3362830	located_end	3274830
	estimated_end	3362830		
CH321-94G10 3L	10074247	10162247	located_end	10074247
	estimated_end	10162247		
CH321-94G11 2R	14557425	14645425	estimated_end	14557425
	located_end	14645425		
CH321-94G12 2L	8211031	8299031	estimated_end	8211031
	located_end	8299031		
CH321-94G14 ArmU	3465713	3553713	estimated_end	3465713
	located_end	3553713		
CH321-94G15 2L	16087003	16175003	estimated_end	16087003
	located_end	16175003		
CH321-94H01 X	15949075	16037075	estimated_end	15949075
	located_end	16037075		
CH321-94H07 3L	4656679	4744679	located_end	4656679
	estimated_end	4744679		
CH321-94H08 X	112719	200719	estimated_end	112719
	located_end	200719		
CH321-94H11 2R	5077095	5165095	located_end	5077095
	estimated_end	5165095		
CH321-94H15 X	5222658	5310658	located_end	5222658
	estimated_end	5310658		
CH321-94H19 2R	13249534	13337534	estimated_end	13249534
	located_end	13337534		
CH321-94H20 3R	22077600	22165600	located_end	22077600
	estimated_end	22165600		
CH321-94H23 3LHet	82751 170751		estimated_end	82751 located_end
	170751			
CH321-94I11 2L	14339208	14427208	estimated_end	14339208
	located_end	14427208		

CH321-94I15 3R	11443360	11531360	located_end	11443360
	estimated_end	11531360		
CH321-94I20 2L	14109047	14197047	located_end	14109047
	estimated_end	14197047		
CH321-94I21 3R	23584307	23672307	estimated_end	23584307
	located_end	23672307		
CH321-94I22 2R	20150982	20238982	located_end	20150982
	estimated_end	20238982		
CH321-94J02 X	4758672	4846672	estimated_end	4758672
	located_end	4846672		
CH321-94J03 2R	3759180	3847180	estimated_end	3759180
	located_end	3847180		
CH321-94J04 3L	20859420	20947420	estimated_end	20859420
	located_end	20947420		
CH321-94J06 3L	6474564	6562564	located_end	6474564
	estimated_end	6562564		
CH321-94J07 X	12674348	12762348	estimated_end	12674348
	located_end	12762348		
CH321-94J11 2R	13457292	13545292	located_end	13457292
	estimated_end	13545292		
CH321-94J17 3R	17770622	17858622	located_end	17770622
	estimated_end	17858622		
CH321-94J24 2R	8512452	8600452	located_end	8512452
	estimated_end	8600452		
CH321-94K04 2RHet	1729432	1817432	located_end	1729432
	estimated_end	1817432		
CH321-94K05 3L	12745725	12833725	located_end	12745725
	estimated_end	12833725		
CH321-94K13 X	12663358	12751358	located_end	12663358
	estimated_end	12751358		
CH321-94K14 X	15484818	15572818	located_end	15484818
	estimated_end	15572818		
CH321-94K17 3R	18749285	18837285	located_end	18749285
	estimated_end	18837285		
CH321-94K18 2L	13593998	13681998	estimated_end	13593998
	located_end	13681998		
CH321-94L03 3R	17721121	17809121	located_end	17721121
	estimated_end	17809121		
CH321-94L04 3R	26805878	26893878	estimated_end	26805878
	located_end	26893878		
CH321-94L10 3R	26954711	27042711	located_end	26954711
	estimated_end	27042711		
CH321-94L11 2L	11794041	11882041	estimated_end	11794041
	located_end	11882041		
CH321-94L14 3R	7158860	7246860	estimated_end	7158860
	located_end	7246860		
CH321-94L17 3R	24046283	24134283	estimated_end	24046283
	located_end	24134283		
CH321-94L19 3R	6290834	6378834	located_end	6290834
	estimated_end	6378834		
CH321-94L20 3L	1616657	1704657	located_end	1616657
	estimated_end	1704657		
CH321-94L22 2L	9816255	9904255	estimated_end	9816255
	located_end	9904255		

CH321-94M07 3L	14670219	14758219	located_end	14670219
	estimated_end	14758219		
CH321-94M09 3L	15720906	15808906	located_end	15720906
	estimated_end	15808906		
CH321-94N03 3RHet	1722400	1810400	estimated_end	1722400
	located_end	1810400		
CH321-94N10 3L	8288607	8376607	located_end	8288607
	estimated_end	8376607		
CH321-94N16 3R	13793642	13881642	located_end	13793642
	estimated_end	13881642		
CH321-94N24 2L	11652983	11740983	estimated_end	11652983
	located_end	11740983		
CH321-94O02 2R	13152284	13240284	estimated_end	13152284
	located_end	13240284		
CH321-94O09 3R	23379578	23467578	estimated_end	23379578
	located_end	23467578		
CH321-94O11 2L	10524471	10612471	located_end	10524471
	estimated_end	10612471		
CH321-94O13 2L	20464775	20552775	estimated_end	20464775
	located_end	20552775		
CH321-94O19 2R	6506612	6594612	estimated_end	6506612
	located_end	6594612		
CH321-94O20 2L	10520989	10608989	estimated_end	10520989
	located_end	10608989		
CH321-94P11 2R	640901	728901	estimated_end	640901
	located_end	728901		
CH321-94P12 3R	24368009	24456009	estimated_end	24368009
	located_end	24456009		
CH321-95A06 ArmU	9708208	9796208	estimated_end	9708208
	located_end	9796208		
CH321-95A19 3L	6766755	6854755	estimated_end	6766755
	located_end	6854755		
CH321-95A20 2R	7195496	7283496	located_end	7195496
	estimated_end	7283496		
CH321-95A24 4	1103966	1191966	estimated_end	1103966
	located_end	1191966		
CH321-95B08 3R	18088029	18176029	located_end	18088029
	estimated_end	18176029		
CH321-95B10 3R	15162943	15250943	estimated_end	15162943
	located_end	15250943		
CH321-95B17 3L	8455780	8543780	estimated_end	8455780
	located_end	8543780		
CH321-95B18 2L	19427104	19515104	estimated_end	19427104
	located_end	19515104		
CH321-95B19 3L	23498635	23586635	estimated_end	23498635
	located_end	23586635		
CH321-95C01 X	21767508	21855508	estimated_end	21767508
	located_end	21855508		
CH321-95C07 3L	18139327	18227327	located_end	18139327
	estimated_end	18227327		
CH321-95C15 3R	3063492	3151492	located_end	3063492
	estimated_end	3151492		
CH321-95C16 3R	22672	110672	located_end	22672
	110672		estimated_end	

CH321-95C17 2L	9614692	9702692	estimated_end	9614692
	located_end	9702692		
CH321-95C20 3R	19233587	19321587	located_end	19233587
	estimated_end	19321587		
CH321-95C24 X	4025006	4113006	located_end	4025006
	estimated_end	4113006		
CH321-95D07 3L	22869936	22957936	located_end	22869936
	estimated_end	22957936		
CH321-95D08 3L	10870489	10958489	located_end	10870489
	estimated_end	10958489		
CH321-95D09 X	15905056	15993056	located_end	15905056
	estimated_end	15993056		
CH321-95D12 3L	22940073	23028073	located_end	22940073
	estimated_end	23028073		
CH321-95D15 3L	3993940	4081940	estimated_end	3993940
	located_end	4081940		
CH321-95D17 X	5650514	5738514	estimated_end	5650514
	located_end	5738514		
CH321-95D18 ArmU	2647515	2735515	located_end	2647515
	estimated_end	2735515		
CH321-95D19 3R	12358111	12446111	estimated_end	12358111
	located_end	12446111		
CH321-95D20 3R	22191474	22279474	estimated_end	22191474
	located_end	22279474		
CH321-95D22 2R	6630756	6718756	estimated_end	6630756
	located_end	6718756		
CH321-95E04 X	12389574	12477574	located_end	12389574
	estimated_end	12477574		
CH321-95E07 2RHet	1442579	1530579	located_end	1442579
	estimated_end	1530579		
CH321-95E10 X	9196499	9284499	estimated_end	9196499
	located_end	9284499		
CH321-95E11 2R	1728388	1816388	located_end	1728388
	estimated_end	1816388		
CH321-95E15 3R	4926219	5014219	estimated_end	4926219
	located_end	5014219		
CH321-95E19 X	16687064	16775064	estimated_end	16687064
	located_end	16775064		
CH321-95E20 3R	1091995	1179995	estimated_end	1091995
	located_end	1179995		
CH321-95E23 3R	12299211	12387211	located_end	12299211
	estimated_end	12387211		
CH321-95F07 2L	20212327	20300327	estimated_end	20212327
	located_end	20300327		
CH321-95F09 3R	16433092	16521092	located_end	16433092
	estimated_end	16521092		
CH321-95F15 2L	3975363	4063363	estimated_end	3975363
	located_end	4063363		
CH321-95F18 X	20457788	20545788	located_end	20457788
	estimated_end	20545788		
CH321-95F21 3R	3872726	3960726	estimated_end	3872726
	located_end	3960726		
CH321-95G03 2L	22518926	22606926	estimated_end	22518926
	located_end	22606926		

CH321-95G12 2R	17065174	17153174	estimated_end	17065174
	located_end	17153174		
CH321-95G13 4	624187	712187	located_end	624187
	estimated_end	712187		
CH321-95G15 2R	4973174	5061174	located_end	4973174
	estimated_end	5061174		
CH321-95G21 3R	23865405	23953405	estimated_end	23865405
	located_end	23953405		
CH321-95G23 3L	12885126	12973126	located_end	12885126
	estimated_end	12973126		
CH321-95H01 3L	14685007	14773007	estimated_end	14685007
	located_end	14773007		
CH321-95H02 X	21981089	22069089	located_end	21981089
	estimated_end	22069089		
CH321-95H03 3R	14752519	14840519	estimated_end	14752519
	located_end	14840519		
CH321-95H04 2L	15558211	15646211	estimated_end	15558211
	located_end	15646211		
CH321-95H05 3L	14568679	14656679	estimated_end	14568679
	located_end	14656679		
CH321-95H06 2LHet	257483	345483	located_end	257483
	estimated_end	345483		
CH321-95H07 2L	9292478	9380478	located_end	9292478
	estimated_end	9380478		
CH321-95H08 3R	9551844	9639844	located_end	9551844
	estimated_end	9639844		
CH321-95H09 3R	20919062	21007062	estimated_end	20919062
	located_end	21007062		
CH321-95H11 3L	17039638	17127638	estimated_end	17039638
	located_end	17127638		
CH321-95H12 3LHet	1226855	1314855	estimated_end	1226855
	located_end	1314855		
CH321-95H16 2R	13205596	13293596	estimated_end	13205596
	located_end	13293596		
CH321-95H17 3L	6398992	6486992	estimated_end	6398992
	located_end	6486992		
CH321-95H19 3R	22205524	22293524	estimated_end	22205524
	located_end	22293524		
CH321-95H20 3R	4020409	4108409	located_end	4020409
	estimated_end	4108409		
CH321-95H21 2R	9393492	9481492	estimated_end	9393492
	located_end	9481492		
CH321-95I03 2L	8270895	8358895	located_end	8270895
	estimated_end	8358895		
CH321-95I05 2L	4560321	4648321	located_end	4560321
	estimated_end	4648321		
CH321-95I11 X	7483781	7571781	estimated_end	7483781
	located_end	7571781		
CH321-95I13 3R	594140	682140	estimated_end	594140
	located_end	682140		
CH321-95I15 2R	16947238	17035238	located_end	16947238
	estimated_end	17035238		
CH321-95I17 3R	24499247	24587247	located_end	24499247
	estimated_end	24587247		

CH321-95I18 X	193804	281804	estimated_end	193804
	located_end	281804		
CH321-95I23 3L	20174416	20262416	located_end	20174416
	estimated_end	20262416		
CH321-95J01 3R	12700337	12788337	estimated_end	12700337
	located_end	12788337		
CH321-95J02 2RHet	317984	405984	estimated_end	317984
	located_end	405984		
CH321-95J03 3R	14276773	14364773	located_end	14276773
	estimated_end	14364773		
CH321-95J05 2L	10443050	10531050	located_end	10443050
	estimated_end	10531050		
CH321-95J06 2R	6613701	6701701	located_end	6613701
	estimated_end	6701701		
CH321-95J08 3R	17564885	17652885	located_end	17564885
	estimated_end	17652885		
CH321-95J10 3R	19858499	19946499	located_end	19858499
	estimated_end	19946499		
CH321-95J13 2R	671223	759223	located_end	671223
	estimated_end	759223		
CH321-95J21 2L	10067799	10155799	located_end	10067799
	estimated_end	10155799		
CH321-95J23 3LHet	986419	1074419	located_end	986419
	estimated_end	1074419		
CH321-95K04 3L	12905287	12993287	located_end	12905287
	estimated_end	12993287		
CH321-95K05 2L	17914708	18002708	estimated_end	17914708
	located_end	18002708		
CH321-95K06 3R	9425896	9513896	estimated_end	9425896
	located_end	9513896		
CH321-95K11 ArmU	1023393	1111393	located_end	1023393
	estimated_end	1111393		
CH321-95K18 ArmU	2748298	2836298	estimated_end	2748298
	located_end	2836298		
CH321-95K19 3R	14018106	14106106	located_end	14018106
	estimated_end	14106106		
CH321-95K20 3R	25419541	25507541	located_end	25419541
	estimated_end	25507541		
CH321-95L01 3L	16105366	16193366	estimated_end	16105366
	located_end	16193366		
CH321-95L02 2L	22095633	22183633	estimated_end	22095633
	located_end	22183633		
CH321-95L04 3R	14798646	14886646	estimated_end	14798646
	located_end	14886646		
CH321-95L06 3L	22382420	22470420	estimated_end	22382420
	located_end	22470420		
CH321-95L07 2L	8577676	8665676	estimated_end	8577676
	located_end	8665676		
CH321-95L08 2R	9645508	9733508	located_end	9645508
	estimated_end	9733508		
CH321-95L16 3RHet	2073772	2161772	located_end	2073772
	estimated_end	2161772		
CH321-95L19 2R	8642973	8730973	located_end	8642973
	estimated_end	8730973		

CH321-95L20 3R	4177175	4265175	located_end	4177175
	estimated_end	4265175		
CH321-95M04 3R	12445129	12533129	estimated_end	12445129
	located_end	12533129		
CH321-95M08 3L	22882396	22970396	estimated_end	22882396
	located_end	22970396		
CH321-95M10 3R	11732613	11820613	estimated_end	11732613
	located_end	11820613		
CH321-95M12 3R	1525182	1613182	estimated_end	1525182
	located_end	1613182		
CH321-95M14 3L	12141257	12229257	located_end	12141257
	estimated_end	12229257		
CH321-95M16 2R	20134488	20222488	located_end	20134488
	estimated_end	20222488		
CH321-95M17 X	17754933	17842933	estimated_end	17754933
	located_end	17842933		
CH321-95M24 3R	12401306	12489306	estimated_end	12401306
	located_end	12489306		
CH321-95N03 2R	1195235	1283235	estimated_end	1195235
	located_end	1283235		
CH321-95N13 2L	10850409	10938409	estimated_end	10850409
	located_end	10938409		
CH321-95N15 2RHet	615490	703490	located_end	615490
	estimated_end	703490		
CH321-95N16 3L	10547107	10635107	located_end	10547107
	estimated_end	10635107		
CH321-95N19 2R	1200489	1288489	estimated_end	1200489
	located_end	1288489		
CH321-95N20 3L	8493474	8581474	estimated_end	8493474
	located_end	8581474		
CH321-95N24 3L	17920255	18008255	estimated_end	17920255
	located_end	18008255		
CH321-95O02 3R	20274850	20362850	estimated_end	20274850
	located_end	20362850		
CH321-95O04 2L	4846636	4934636	estimated_end	4846636
	located_end	4934636		
CH321-95O11 2L	14343612	14431612	located_end	14343612
	estimated_end	14431612		
CH321-95O14 2R	9363137	9451137	located_end	9363137
	estimated_end	9451137		
CH321-95O20 2R	3437174	3525174	estimated_end	3437174
	located_end	3525174		
CH321-95O24 3R	10719854	10807854	located_end	10719854
	estimated_end	10807854		
CH321-95P01 2L	13491449	13579449	located_end	13491449
	estimated_end	13579449		
CH321-95P08 X	17635199	17723199	located_end	17635199
	estimated_end	17723199		
CH321-95P15 3L	17878923	17966923	estimated_end	17878923
	located_end	17966923		
CH321-95P19 X	207886	295886	estimated_end	207886
	located_end	295886		
CH321-95P21 3R	1807244	1895244	estimated_end	1807244
	located_end	1895244		

CH321-95P22 3R	14637147	14725147	estimated_end	14637147
	located_end	14725147		
CH321-95P23 2R	797291	885291	estimated_end	797291
	located_end	885291		
CH321-95P24 2L	11722466	11810466	located_end	11722466
	estimated_end	11810466		
CH321-96A01 X	19499085	19587085	located_end	19499085
	estimated_end	19587085		
CH321-96A03 3R	3256205	3344205	estimated_end	3256205
	located_end	3344205		
CH321-96A04 2RHet	1257737	1345737	located_end	1257737
	estimated_end	1345737		
CH321-96A05 2R	2682481	2770481	estimated_end	2682481
	located_end	2770481		
CH321-96A09 X	14222650	14310650	located_end	14222650
	estimated_end	14310650		
CH321-96A15 2R	14773855	14861855	estimated_end	14773855
	located_end	14861855		
CH321-96A22 X	21559038	21647038	estimated_end	21559038
	located_end	21647038		
CH321-96A24 3L	9045718	9133718	located_end	9045718
	estimated_end	9133718		
CH321-96B04 3L	15282364	15370364	located_end	15282364
	estimated_end	15370364		
CH321-96B06 2R	18728354	18816354	located_end	18728354
	estimated_end	18816354		
CH321-96B09 3L	16465078	16553078	located_end	16465078
	estimated_end	16553078		
CH321-96B10 2L	16500424	16588424	estimated_end	16500424
	located_end	16588424		
CH321-96B11 3L	8853210	8941210	located_end	8853210
	estimated_end	8941210		
CH321-96B17 3R	25131049	25219049	located_end	25131049
	estimated_end	25219049		
CH321-96B23 3R	19862129	19950129	located_end	19862129
	estimated_end	19950129		
CH321-96C02 2R	15194972	15282972	located_end	15194972
	estimated_end	15282972		
CH321-96C04 3R	1116058	1204058	located_end	1116058
	estimated_end	1204058		
CH321-96C13 3L	16571148	16659148	estimated_end	16571148
	located_end	16659148		
CH321-96C22 3L	22681427	22769427	estimated_end	22681427
	located_end	22769427		
CH321-96D03 3R	22101685	22189685	located_end	22101685
	estimated_end	22189685		
CH321-96D10 3R	16609123	16697123	located_end	16609123
	estimated_end	16697123		
CH321-96D12 3R	14637237	14725237	located_end	14637237
	estimated_end	14725237		
CH321-96D18 2L	22551495	22639495	located_end	22551495
	estimated_end	22639495		
CH321-96D24 3R	689887	777887	located_end	689887
	estimated_end	777887		

CH321-96E02 ArmU	8167468	8255468	estimated_end	8167468
	located_end	8255468		
CH321-96E05 2R	11755590	11843590	estimated_end	11755590
	located_end	11843590		
CH321-96E06 2L	555983	643983	estimated_end	555983
	located_end	643983		
CH321-96E07 2R	11254381	11342381	located_end	11254381
	estimated_end	11342381		
CH321-96E09 2R	5088754	5176754	located_end	5088754
	estimated_end	5176754		
CH321-96E11 2R	17843181	17931181	located_end	17843181
	estimated_end	17931181		
CH321-96E13 3R	24243589	24331589	estimated_end	24243589
	located_end	24331589		
CH321-96E16 X	20397467	20485467	estimated_end	20397467
	located_end	20485467		
CH321-96E19 X	4848643	4936643	estimated_end	4848643
	located_end	4936643		
CH321-96E21 2R	12251601	12339601	located_end	12251601
	estimated_end	12339601		
CH321-96E23 3R	16287342	16375342	located_end	16287342
	estimated_end	16375342		
CH321-96E24 3R	442281	530281	estimated_end	442281
	located_end	530281		
CH321-96F05 3L	16416544	16504544	estimated_end	16416544
	located_end	16504544		
CH321-96F06 2L	18295464	18383464	estimated_end	18295464
	located_end	18383464		
CH321-96F13 3R	23092680	23180680	estimated_end	23092680
	located_end	23180680		
CH321-96F14 3R	11757948	11845948	located_end	11757948
	estimated_end	11845948		
CH321-96F16 2L	10909224	10997224	estimated_end	10909224
	located_end	10997224		
CH321-96F17 2L	110459	198459	located_end	110459
	estimated_end	198459		
CH321-96F19 X	3744318	3832318	located_end	3744318
	estimated_end	3832318		
CH321-96F20 2L	8303771	8391771	located_end	8303771
	estimated_end	8391771		
CH321-96F24 3RHet	533353	621353	estimated_end	533353
	located_end	621353		
CH321-96G01 X	7683583	7771583	estimated_end	7683583
	located_end	7771583		
CH321-96G03 X	2174295	2262295	located_end	2174295
	estimated_end	2262295		
CH321-96G04 X	7000482	7088482	estimated_end	7000482
	located_end	7088482		
CH321-96G06 2R	7566859	7654859	estimated_end	7566859
	located_end	7654859		
CH321-96G09 2R	18505974	18593974	estimated_end	18505974
	located_end	18593974		
CH321-96G11 3R	10147389	10235389	located_end	10147389
	estimated_end	10235389		

CH321-96G15 X	3269220	3357220	located_end	3269220
	estimated_end	3357220		
CH321-96G21 2L	2053713	2141713	estimated_end	2053713
	located_end	2141713		
CH321-96G24 3L	24270134	24358134	estimated_end	24270134
	located_end	24358134		
CH321-96H01 3L	18537633	18625633	located_end	18537633
	estimated_end	18625633		
CH321-96H02 X	16424463	16512463	estimated_end	16424463
	located_end	16512463		
CH321-96H05 3L	22244214	22332214	located_end	22244214
	estimated_end	22332214		
CH321-96H06 X	6363704	6451704	located_end	6363704
	estimated_end	6451704		
CH321-96H08 X	16702512	16790512	estimated_end	16702512
	located_end	16790512		
CH321-96H10 X	9029069	9117069	estimated_end	9029069
	located_end	9117069		
CH321-96H12 3R	6793978	6881978	estimated_end	6793978
	located_end	6881978		
CH321-96H17 3L	9116155	9204155	located_end	9116155
	estimated_end	9204155		
CH321-96H19 2R	7034347	7122347	estimated_end	7034347
	located_end	7122347		
CH321-96H20 3R	25228401	25316401	located_end	25228401
	estimated_end	25316401		
CH321-96H22 3L	6939631	7027631	estimated_end	6939631
	located_end	7027631		
CH321-96H23 3L	16724252	16812252	estimated_end	16724252
	located_end	16812252		
CH321-96H24 3L	6602771	6690771	located_end	6602771
	estimated_end	6690771		
CH321-96I01 2R	1984652	2072652	estimated_end	1984652
	located_end	2072652		
CH321-96I04 3L	20708768	20796768	estimated_end	20708768
	located_end	20796768		
CH321-96I05 2R	19576513	19664513	estimated_end	19576513
	located_end	19664513		
CH321-96I09 ArmU	4029757	4117757	located_end	4029757
	estimated_end	4117757		
CH321-96I10 3R	726349	814349	estimated_end	726349
	located_end	814349		
CH321-96I18 2R	20975269	21063269	located_end	20975269
	estimated_end	21063269		
CH321-96I19 3R	27434497	27522497	estimated_end	27434497
	located_end	27522497		
CH321-96I21 2L	7068614	7156614	estimated_end	7068614
	located_end	7156614		
CH321-96I23 2R	10680018	10768018	estimated_end	10680018
	located_end	10768018		
CH321-96J01 2L	15941856	16029856	located_end	15941856
	estimated_end	16029856		
CH321-96J07 3R	14998981	15086981	located_end	14998981
	estimated_end	15086981		

CH321-96J10 2R	12376953	12464953	estimated_end	12376953
	located_end	12464953		
CH321-96J11 3L	1786232	1874232	located_end	1786232
	estimated_end	1874232		
CH321-96J16 3R	18094412	18182412	located_end	18094412
	estimated_end	18182412		
CH321-96J17 2L	8120002	8208002	located_end	8120002
	estimated_end	8208002		
CH321-96K03 2L	20054111	20142111	estimated_end	20054111
	located_end	20142111		
CH321-96K08 X	18328779	18416779	located_end	18328779
	estimated_end	18416779		
CH321-96K09 3R	24143623	24231623	located_end	24143623
	estimated_end	24231623		
CH321-96K11 3R	9672237	9760237	estimated_end	9672237
	located_end	9760237		
CH321-96K17 3R	6363688	6451688	estimated_end	6363688
	located_end	6451688		
CH321-96K20 3L	15042457	15130457	located_end	15042457
	estimated_end	15130457		
CH321-96L01 2L	12744947	12832947	estimated_end	12744947
	located_end	12832947		
CH321-96L04 3RHet	1474381	1562381	located_end	1474381
	estimated_end	1562381		
CH321-96L12 3L	11459956	11547956	estimated_end	11459956
	located_end	11547956		
CH321-96L19 2R	17051472	17139472	located_end	17051472
	estimated_end	17139472		
CH321-96L21 3R	4997503	5085503	located_end	4997503
	estimated_end	5085503		
CH321-96L22 3R	27673123	27761123	located_end	27673123
	estimated_end	27761123		
CH321-96L23 3R	13138531	13226531	estimated_end	13138531
	located_end	13226531		
CH321-96L24 2L	15321071	15409071	estimated_end	15321071
	located_end	15409071		
CH321-96M01 2L	13622683	13710683	estimated_end	13622683
	located_end	13710683		
CH321-96M12 3R	9475268	9563268	located_end	9475268
	estimated_end	9563268		
CH321-96M17 2L	2865525	2953525	located_end	2865525
	estimated_end	2953525		
CH321-96N01 2L	15783529	15871529	estimated_end	15783529
	located_end	15871529		
CH321-96N04 2L	14940062	15028062	estimated_end	14940062
	located_end	15028062		
CH321-96N10 3R	2867117	2955117	located_end	2867117
	estimated_end	2955117		
CH321-96N13 3L	3118825	3206825	located_end	3118825
	estimated_end	3206825		
CH321-96N14 3R	14590241	14678241	estimated_end	14590241
	located_end	14678241		
CH321-96N16 3R	27531388	27619388	located_end	27531388
	estimated_end	27619388		

CH321-96N23 3RHet	1837763	1925763	located_end	1837763
	estimated_end	1925763		
CH321-96O06 X	14718509	14806509	estimated_end	14718509
	located_end	14806509		
CH321-96O07 3RHet	1953693	2041693	located_end	1953693
	estimated_end	2041693		
CH321-96O08 2L	4718091	4806091	estimated_end	4718091
	located_end	4806091		
CH321-96O09 3L	12958040	13046040	located_end	12958040
	estimated_end	13046040		
CH321-96O10 3L	210290	298290	located_end	210290
	estimated_end	298290		
CH321-96O11 X	8216164	8304164	located_end	8216164
	estimated_end	8304164		
CH321-96O12 X	11077201	11165201	located_end	11077201
	estimated_end	11165201		
CH321-96O17 3R	18070211	18158211	estimated_end	18070211
	located_end	18158211		
CH321-96O19 3R	15867927	15955927	estimated_end	15867927
	located_end	15955927		
CH321-96P01 3R	17587921	17675921	estimated_end	17587921
	located_end	17675921		
CH321-96P07 3R	14584515	14672515	located_end	14584515
	estimated_end	14672515		
CH321-96P08 X	79732	167732	estimated_end	79732
	located_end	167732	located_end	167732
CH321-96P11 X	17467339	17555339	estimated_end	17467339
	located_end	17555339		
CH321-96P14 2L	2867142	2955142	estimated_end	2867142
	located_end	2955142		
CH321-96P16 3L	9358619	9446619	located_end	9358619
	estimated_end	9446619		
CH321-96P23 X	5089059	5177059	located_end	5089059
	estimated_end	5177059		
CH321-96P24 2L	6443289	6531289	estimated_end	6443289
	located_end	6531289		
CH322-01A01 3L	5726227	5747227	estimated_end	5726227
	located_end	5747227		
CH322-01A02 ArmU	3921644	3942644	estimated_end	3921644
	located_end	3942644		
CH322-01A14 2L	22513939	22534939	estimated_end	22513939
	located_end	22534939		
CH322-01A18 2R	1575103	1596103	located_end	1575103
	estimated_end	1596103		
CH322-01A22 ArmU	9341777	9362777	estimated_end	9341777
	located_end	9362777		
CH322-01A23 3R	8128867	8149867	estimated_end	8128867
	located_end	8149867		
CH322-01B11 2R	11384510	11405510	estimated_end	11384510
	located_end	11405510		
CH322-01B13 3L	19640663	19661663	located_end	19640663
	estimated_end	19661663		
CH322-01B14 3L	6932462	6953462	estimated_end	6932462
	located_end	6953462		

CH322-01B18 3L	7318749	7339749	estimated_end	7318749
	located_end	7339749		
CH322-01B19 3R	27535649	27556649	estimated_end	27535649
	located_end	27556649		
CH322-01C06 2L	6782004	6803004	estimated_end	6782004
	located_end	6803004		
CH322-01D03 3L	16002778	16023778	located_end	16002778
	estimated_end	16023778		
CH322-01D10 2R	3814296	3835296	located_end	3814296
	estimated_end	3835296		
CH322-01D11 2L	21354730	21375730	estimated_end	21354730
	located_end	21375730		
CH322-01D16 2L	12031870	12052870	located_end	12031870
	estimated_end	12052870		
CH322-01D17 ArmU	1548300	1569300	estimated_end	1548300
	located_end	1569300		
CH322-01D22 3L	22635993	22656993	estimated_end	22635993
	located_end	22656993		
CH322-01E03 2L	22841572	22862572	estimated_end	22841572
	located_end	22862572		
CH322-01E04 2L	6446773	6467773	located_end	6446773
	estimated_end	6467773		
CH322-01E05 3R	16438097	16459097	located_end	16438097
	estimated_end	16459097		
CH322-01E06 2L	610720	631720	estimated_end	610720
	located_end	631720		
CH322-01E08 3R	13881532	13902532	located_end	13881532
	estimated_end	13902532		
CH322-01E10 2L	17812447	17833447	located_end	17812447
	estimated_end	17833447		
CH322-01E11 X	7012066	7033066	estimated_end	7012066
	located_end	7033066		
CH322-01E13 3L	16388359	16409359	located_end	16388359
	estimated_end	16409359		
CH322-01E15 3L	9136253	9157253	located_end	9136253
	estimated_end	9157253		
CH322-01E18 2R	1041731	1062731	located_end	1041731
	estimated_end	1062731		
CH322-01F01 X	8395555	8416555	estimated_end	8395555
	located_end	8416555		
CH322-01F12 2R	17511819	17532819	located_end	17511819
	estimated_end	17532819		
CH322-01F13 3L	19440232	19461232	located_end	19440232
	estimated_end	19461232		
CH322-01F15 X	18011189	18032189	estimated_end	18011189
	located_end	18032189		
CH322-01F16 2L	15072691	15093691	estimated_end	15072691
	located_end	15093691		
CH322-01F17 X	14922841	14943841	estimated_end	14922841
	located_end	14943841		
CH322-01F19 3R	7832608	7853608	estimated_end	7832608
	located_end	7853608		
CH322-01F23 2R	12489005	12510005	located_end	12489005
	estimated_end	12510005		

CH322-01G05 3L	1667777	1688777	located_end	1667777
	estimated_end	1688777		
CH322-01G06 2L	1230660	1251660	estimated_end	1230660
	located_end	1251660		
CH322-01G13 2R	20662105	20683105	estimated_end	20662105
	located_end	20683105		
CH322-01G16 X	4365139	4386139	located_end	4365139
	estimated_end	4386139		
CH322-01G20 X	1691230	1712230	estimated_end	1691230
	located_end	1712230		
CH322-01G22 X	6163347	6184347	located_end	6163347
	estimated_end	6184347		
CH322-01G23 3R	7471895	7492895	estimated_end	7471895
	located_end	7492895		
CH322-01H04 2L	15362302	15383302	estimated_end	15362302
	located_end	15383302		
CH322-01H05 3L	13463329	13484329	estimated_end	13463329
	located_end	13484329		
CH322-01H08 2R	1242936	1263936	estimated_end	1242936
	located_end	1263936		
CH322-01H10 2R	15171640	15192640	located_end	15171640
	estimated_end	15192640		
CH322-01H16 2L	13209762	13230762	located_end	13209762
	estimated_end	13230762		
CH322-01H17 3RHet	1910773	1931773	located_end	1910773
	estimated_end	1931773		
CH322-01H20 2R	9859339	9880339	estimated_end	9859339
	located_end	9880339		
CH322-01H21 2R	14391885	14412885	located_end	14391885
	estimated_end	14412885		
CH322-01H22 ArmU	1440475	1461475	estimated_end	1440475
	located_end	1461475		
CH322-01I03 3R	3635153	3656153	estimated_end	3635153
	located_end	3656153		
CH322-01I10 3L	16616397	16637397	estimated_end	16616397
	located_end	16637397		
CH322-01I11 3L	4854504	4875504	estimated_end	4854504
	located_end	4875504		
CH322-01I14 2L	9348948	9369948	located_end	9348948
	estimated_end	9369948		
CH322-01I16 2L	17118184	17139184	located_end	17118184
	estimated_end	17139184		
CH322-01I17 2R	18194147	18215147	estimated_end	18194147
	located_end	18215147		
CH322-01I20 3L	2383874	2404874	estimated_end	2383874
	located_end	2404874		
CH322-01I21 2L	15867071	15888071	estimated_end	15867071
	located_end	15888071		
CH322-01I23 3L	15082360	15103360	estimated_end	15082360
	located_end	15103360		
CH322-01I24 X	7527452	7548452	located_end	7527452
	estimated_end	7548452		
CH322-01J02 3R	11042355	11063355	estimated_end	11042355
	located_end	11063355		

CH322-01J05 2R	14559447	14580447	estimated_end	14559447
	located_end			
CH322-01J08 3R	17427168	17448168	estimated_end	17427168
	located_end			
CH322-01J10 3L	18843608	18864608	estimated_end	18843608
	located_end			
CH322-01J13 2R	7404438	7425438	estimated_end	7404438
	located_end			
CH322-01J14 3R	26599869	26620869	estimated_end	26599869
	located_end			
CH322-01J15 ArmU	478655	499655	estimated_end	478655
	located_end			
CH322-01J17 X	2260520	2281520	estimated_end	2260520
	located_end			
CH322-01K01 2R	2505807	2526807	estimated_end	2505807
	located_end			
CH322-01K05 3R	20492535	20513535	estimated_end	20492535
	located_end			
CH322-01K06 X	15942071	15963071	estimated_end	15942071
	located_end			
CH322-01K08 2RHet	3265583	3286583	located_end	3265583
	estimated_end			
CH322-01K11 2R	2327920	2348920	estimated_end	2327920
	located_end			
CH322-01K12 3R	15234610	15255610	located_end	15234610
	estimated_end			
CH322-01K13 3R	2432239	2453239	estimated_end	2432239
	located_end			
CH322-01K14 2L	10705567	10726567	estimated_end	10705567
	located_end			
CH322-01K23 2L	10368703	10389703	estimated_end	10368703
	located_end			
CH322-01L01 3L	12008702	12029702	estimated_end	12008702
	located_end			
CH322-01L07 2L	3808280	3829280	located_end	3808280
	estimated_end			
CH322-01L08 3L	6589135	6610135	estimated_end	6589135
	located_end			
CH322-01L15 3R	394282	415282	located_end	394282
	estimated_end			
CH322-01L16 2L	21330353	21351353	located_end	21330353
	estimated_end			
CH322-01L21 3RHet	631467	652467	estimated_end	631467
	located_end			
CH322-01M01 2R	7890645	7911645	located_end	7890645
	estimated_end			
CH322-01M03 3L	13147804	13168804	located_end	13147804
	estimated_end			
CH322-01M04 2R	20247410	20268410	estimated_end	20247410
	located_end			
CH322-01M05 3L	12097518	12118518	located_end	12097518
	estimated_end			
CH322-01M12 3R	13307505	13328505	located_end	13307505
	estimated_end			

CH322-01M15 2R	121811	142811	located_end	121811
	estimated_end	142811		
CH322-01N02 3L	10758815	10779815	estimated_end	10758815
	located_end	10779815		
CH322-01N03 2R	9835271	9856271	estimated_end	9835271
	located_end	9856271		
CH322-01N04 3R	3279687	3300687	estimated_end	3279687
	located_end	3300687		
CH322-01N09 2R	20735373	20756373	located_end	20735373
	estimated_end	20756373		
CH322-01N14 3L	7755062	7776062	located_end	7755062
	estimated_end	7776062		
CH322-01N15 3R	5812282	5833282	estimated_end	5812282
	located_end	5833282		
CH322-01O01 3R	27298219	27319219	located_end	27298219
	estimated_end	27319219		
CH322-01O03 3R	14232284	14253284	located_end	14232284
	estimated_end	14253284		
CH322-01O05 3L	23455730	23476730	estimated_end	23455730
	located_end	23476730		
CH322-01O08 2L	21026484	21047484	located_end	21026484
	estimated_end	21047484		
CH322-01O14 3L	14097817	14118817	located_end	14097817
	estimated_end	14118817		
CH322-01O15 2L	8817100	8838100	estimated_end	8817100
	located_end	8838100		
CH322-01O17 3R	26930094	26951094	located_end	26930094
	estimated_end	26951094		
CH322-01P02 2L	7763385	7784385	located_end	7763385
	estimated_end	7784385		
CH322-01P03 2L	278340	299340	estimated_end	278340
	located_end	299340		
CH322-01P09 2L	8391727	8412727	located_end	8391727
	estimated_end	8412727		
CH322-01P14 3RHet	1937433	1958433	located_end	1937433
	estimated_end	1958433		
CH322-01P15 2R	13747228	13768228	located_end	13747228
	estimated_end	13768228		
CH322-01P18 X	12959395	12980395	estimated_end	12959395
	located_end	12980395		
CH322-01P19 3L	7513653	7534653	located_end	7513653
	estimated_end	7534653		
CH322-01P20 3R	8825196	8846196	located_end	8825196
	estimated_end	8846196		
CH322-01P23 4	884942	905942	located_end	884942
	estimated_end	905942		
CH322-01P24 X	13664672	13685672	located_end	13664672
	estimated_end	13685672		
CH322-02A09 X	6243035	6264035	estimated_end	6243035
	located_end	6264035		
CH322-02A12 3L	14740312	14761312	located_end	14740312
	estimated_end	14761312		
CH322-02A13 3RHet	1648330	1669330	estimated_end	1648330
	located_end	1669330		

CH322-02A20 3R	15685898	15706898	located_end	15685898
	estimated_end	15706898		
CH322-02A22 2R	14030992	14051992	located_end	14030992
	estimated_end	14051992		
CH322-02A23 3R	6065232	6086232	located_end	6065232
	estimated_end	6086232		
CH322-02A24 3L	22473590	22494590	located_end	22473590
	estimated_end	22494590		
CH322-02B03 X	21322968	21343968	located_end	21322968
	estimated_end	21343968		
CH322-02B08 3R	5763249	5784249	located_end	5763249
	estimated_end	5784249		
CH322-02B09 3L	21571121	21592121	estimated_end	21571121
	located_end	21592121		
CH322-02B23 2L	685748	706748	estimated_end	685748
	located_end	706748		
CH322-02C02 3R	7950856	7971856	located_end	7950856
	estimated_end	7971856		
CH322-02C05 3L	20650767	20671767	estimated_end	20650767
	located_end	20671767		
CH322-02C06 3L	18691118	18712118	located_end	18691118
	estimated_end	18712118		
CH322-02C10 3R	10863974	10884974	estimated_end	10863974
	located_end	10884974		
CH322-02C12 3R	4701711	4722711	estimated_end	4701711
	located_end	4722711		
CH322-02C14 X	3951615	3972615	estimated_end	3951615
	located_end	3972615		
CH322-02C17 2L	21993722	22014722	located_end	21993722
	estimated_end	22014722		
CH322-02C18 3R	2710938	2731938	located_end	2710938
	estimated_end	2731938		
CH322-02C23 2L	22599777	22620777	located_end	22599777
	estimated_end	22620777		
CH322-02D02 2R	9308424	9329424	estimated_end	9308424
	located_end	9329424		
CH322-02D03 3R	9041529	9062529	located_end	9041529
	estimated_end	9062529		
CH322-02D04 4	678533	699533	located_end	678533
	estimated_end	699533		
CH322-02D11 2R	3153430	3174430	estimated_end	3153430
	located_end	3174430		
CH322-02D19 3R	13405258	13426258	estimated_end	13405258
	located_end	13426258		
CH322-02D21 2R	12376566	12397566	estimated_end	12376566
	located_end	12397566		
CH322-02D22 X	654149	675149	estimated_end	654149
	located_end	675149		
CH322-02D23 X	10230574	10251574	estimated_end	10230574
	located_end	10251574		
CH322-02E01 3R	3964583	3985583	estimated_end	3964583
	located_end	3985583		
CH322-02E02 X	5964027	5985027	located_end	5964027
	estimated_end	5985027		

CH322-02E03 3L	7069474	7090474	located_end	7069474
	estimated_end	7090474		
CH322-02E06 2L	19499358	19520358	estimated_end	19499358
	located_end	19520358		
CH322-02E08 2L	18571190	18592190	located_end	18571190
	estimated_end	18592190		
CH322-02E12 2L	4500930	4521930	estimated_end	4500930
	located_end	4521930		
CH322-02E14 2R	6515065	6536065	estimated_end	6515065
	located_end	6536065		
CH322-02E15 3L	2540064	2561064	located_end	2540064
	estimated_end	2561064		
CH322-02E16 2R	18431547	18452547	estimated_end	18431547
	located_end	18452547		
CH322-02E17 2R	13087029	13108029	estimated_end	13087029
	located_end	13108029		
CH322-02E18 3L	8563908	8584908	estimated_end	8563908
	located_end	8584908		
CH322-02E19 2R	10368609	10389609	estimated_end	10368609
	located_end	10389609		
CH322-02E20 X	15940280	15961280	estimated_end	15940280
	located_end	15961280		
CH322-02F02 3R	12007478	12028478	located_end	12007478
	estimated_end	12028478		
CH322-02F05 3R	25973710	25994710	estimated_end	25973710
	located_end	25994710		
CH322-02F06 2R	5706888	5727888	estimated_end	5706888
	located_end	5727888		
CH322-02F07 X	8652273	8673273	estimated_end	8652273
	located_end	8673273		
CH322-02F09 2RHet	2598920	2619920	located_end	2598920
	estimated_end	2619920		
CH322-02F11 3R	16969385	16990385	estimated_end	16969385
	located_end	16990385		
CH322-02F14 3R	18406082	18427082	estimated_end	18406082
	located_end	18427082		
CH322-02F18 3L	19820134	19841134	estimated_end	19820134
	located_end	19841134		
CH322-02F19 2R	9455084	9476084	estimated_end	9455084
	located_end	9476084		
CH322-02F23 2R	7980176	8001176	estimated_end	7980176
	located_end	8001176		
CH322-02F24 2RHet	1565534	1586534	located_end	1565534
	estimated_end	1586534		
CH322-02G03 3L	16398564	16419564	located_end	16398564
	estimated_end	16419564		
CH322-02G05 3L	1047177	1068177	estimated_end	1047177
	located_end	1068177		
CH322-02G07 3L	7540078	7561078	estimated_end	7540078
	located_end	7561078		
CH322-02G10 2R	3274449	3295449	estimated_end	3274449
	located_end	3295449		
CH322-02G17 2L	8179213	8200213	located_end	8179213
	estimated_end	8200213		

CH322-02G18 X	7858428	7879428	located_end	7858428
	estimated_end	7879428		
CH322-02G19 2LHet	154190	175190	located_end	154190
	estimated_end	175190		
CH322-02H04 3R	14286533	14307533	estimated_end	14286533
	located_end	14307533		
CH322-02H05 3R	2245866	2266866	estimated_end	2245866
	located_end	2266866		
CH322-02H08 2L	4940489	4961489	estimated_end	4940489
	located_end	4961489		
CH322-02H10 X	11071960	11092960	estimated_end	11071960
	located_end	11092960		
CH322-02H12 3L	11963425	11984425	estimated_end	11963425
	located_end	11984425		
CH322-02H14 2R	16839910	16860910	estimated_end	16839910
	located_end	16860910		
CH322-02H21 2R	3429440	3450440	located_end	3429440
	estimated_end	3450440		
CH322-02H24 2R	17558775	17579775	located_end	17558775
	estimated_end	17579775		
CH322-02I01 ArmU	2149198	2170198	estimated_end	2149198
	located_end	2170198		
CH322-02I02 X	8503234	8524234	estimated_end	8503234
	located_end	8524234		
CH322-02I09 2L	15544419	15565419	located_end	15544419
	estimated_end	15565419		
CH322-02I11 2R	14420890	14441890	located_end	14420890
	estimated_end	14441890		
CH322-02I16 2L	6396243	6417243	estimated_end	6396243
	located_end	6417243		
CH322-02I18 2R	1261405	1282405	located_end	1261405
	estimated_end	1282405		
CH322-02I19 X	10798463	10819463	estimated_end	10798463
	located_end	10819463		
CH322-02I21 X	5317940	5338940	estimated_end	5317940
	located_end	5338940		
CH322-02I23 3R	52475	73475	estimated_end	52475
	located_end	73475	located_end	73475
CH322-02J03 3RHet	2277457	2298457	estimated_end	2277457
	located_end	2298457		
CH322-02J13 2L	6456612	6477612	estimated_end	6456612
	located_end	6477612		
CH322-02J16 2L	8749161	8770161	located_end	8749161
	estimated_end	8770161		
CH322-02J17 3R	18543772	18564772	estimated_end	18543772
	located_end	18564772		
CH322-02J18 2L	682096	703096	located_end	682096
	estimated_end	703096		
CH322-02J19 2L	10710105	10731105	located_end	10710105
	estimated_end	10731105		
CH322-02J21 3R	23269192	23290192	estimated_end	23269192
	located_end	23290192		
CH322-02J22 2L	19664264	19685264	estimated_end	19664264
	located_end	19685264		

CH322-02K01 2R	14453878	14474878	estimated_end	14453878
	located_end	14474878		
CH322-02K02 2L	6884567	6905567	estimated_end	6884567
	located_end	6905567		
CH322-02K03 3RHet	650095	671095	estimated_end	650095
	located_end	671095		
CH322-02K09 2R	13242853	13263853	located_end	13242853
	estimated_end	13263853		
CH322-02K14 2R	4401070	4422070	estimated_end	4401070
	located_end	4422070		
CH322-02K15 3L	12341124	12362124	located_end	12341124
	estimated_end	12362124		
CH322-02K17 3L	4852230	4873230	located_end	4852230
	estimated_end	4873230		
CH322-02K18 3L	10630607	10651607	estimated_end	10630607
	located_end	10651607		
CH322-02K20 2R	13100505	13121505	located_end	13100505
	estimated_end	13121505		
CH322-02K21 3L	21459117	21480117	located_end	21459117
	estimated_end	21480117		
CH322-02L03 2L	9636186	9657186	located_end	9636186
	estimated_end	9657186		
CH322-02L05 3RHet	420305	441305	located_end	420305
	estimated_end	441305		
CH322-02L06 2L	10508796	10529796	estimated_end	10508796
	located_end	10529796		
CH322-02L08 2R	21123720	21144720	estimated_end	21123720
	located_end	21144720		
CH322-02L09 3R	19518747	19539747	located_end	19518747
	estimated_end	19539747		
CH322-02L11 2L	3203023	3224023	estimated_end	3203023
	located_end	3224023		
CH322-02L12 3R	26432685	26453685	located_end	26432685
	estimated_end	26453685		
CH322-02L20 2L	11950833	11971833	located_end	11950833
	estimated_end	11971833		
CH322-02M04 ArmU	1298760	1319760	estimated_end	1298760
	located_end	1319760		
CH322-02M07 3R	16577086	16598086	located_end	16577086
	estimated_end	16598086		
CH322-02M08 3R	26428922	26449922	estimated_end	26428922
	located_end	26449922		
CH322-02M16 2R	7202284	7223284	located_end	7202284
	estimated_end	7223284		
CH322-02M20 3R	26105019	26126019	estimated_end	26105019
	located_end	26126019		
CH322-02M21 2L	3236459	3257459	located_end	3236459
	estimated_end	3257459		
CH322-02M23 3R	25699342	25720342	estimated_end	25699342
	located_end	25720342		
CH322-02N07 X	7893389	7914389	located_end	7893389
	estimated_end	7914389		
CH322-02N09 2RHet	669790	690790	located_end	669790
	estimated_end	690790		

CH322-02N19 3RHet	1022459	1043459	estimated_end	1022459
	located_end	1043459		
CH322-02N22 3R	23003253	23024253	located_end	23003253
	estimated_end	23024253		
CH322-02N23 3L	17422881	17443881	estimated_end	17422881
	located_end	17443881		
CH322-02O01 3L	22908503	22929503	estimated_end	22908503
	located_end	22929503		
CH322-02O04 4	1019263	1040263	estimated_end	1019263
	located_end	1040263		
CH322-02O05 3R	2626765	2647765	located_end	2626765
	estimated_end	2647765		
CH322-02O10 3R	15568757	15589757	estimated_end	15568757
	located_end	15589757		
CH322-02O15 3R	5375660	5396660	located_end	5375660
	estimated_end	5396660		
CH322-02O19 X	12764492	12785492	located_end	12764492
	estimated_end	12785492		
CH322-02O23 2L	3311015	3332015	located_end	3311015
	estimated_end	3332015		
CH322-02O24 3R	8224032	8245032	estimated_end	8224032
	located_end	8245032		
CH322-02P01 2L	1772201	1793201	estimated_end	1772201
	located_end	1793201		
CH322-02P02 ArmU	9774941	9795941	estimated_end	9774941
	located_end	9795941		
CH322-02P06 3R	3905429	3926429	located_end	3905429
	estimated_end	3926429		
CH322-02P19 2L	2980627	3001627	located_end	2980627
	estimated_end	3001627		
CH322-02P21 X	16864616	16885616	located_end	16864616
	estimated_end	16885616		
CH322-03A03 3L	14644582	14665582	located_end	14644582
	estimated_end	14665582		
CH322-03A07 3L	16845776	16866776	estimated_end	16845776
	located_end	16866776		
CH322-03A09 4	254864	275864	located_end	254864
	estimated_end	275864		
CH322-03A11 3R	19731900	19752900	located_end	19731900
	estimated_end	19752900		
CH322-03A12 X	17285490	17306490	estimated_end	17285490
	located_end	17306490		
CH322-03A13 2L	12746573	12767573	estimated_end	12746573
	located_end	12767573		
CH322-03A14 3L	10051558	10072558	estimated_end	10051558
	located_end	10072558		
CH322-03B11 X	20312845	20333845	located_end	20312845
	estimated_end	20333845		
CH322-03B21 2L	13139555	13160555	located_end	13139555
	estimated_end	13160555		
CH322-03B23 X	9092850	9113850	located_end	9092850
	estimated_end	9113850		
CH322-03C05 2R	10471675	10492675	located_end	10471675
	estimated_end	10492675		

CH322-03C12 3L	7582885	7603885	located_end	7582885
	estimated_end	7603885		
CH322-03C14 2L	13633659	13654659	located_end	13633659
	estimated_end	13654659		
CH322-03C15 X	2245939	2266939	located_end	2245939
	estimated_end	2266939		
CH322-03C17 2R	8238205	8259205	located_end	8238205
	estimated_end	8259205		
CH322-03C20 2R	6715177	6736177	estimated_end	6715177
	located_end	6736177		
CH322-03D05 X	3840263	3861263	estimated_end	3840263
	located_end	3861263		
CH322-03D06 X	1510901	1531901	located_end	1510901
	estimated_end	1531901		
CH322-03D11 3RHet	2348117	2369117	located_end	2348117
	estimated_end	2369117		
CH322-03D13 3L	10259703	10280703	located_end	10259703
	estimated_end	10280703		
CH322-03D15 3R	844364	865364	estimated_end	844364
	located_end	865364		
CH322-03D16 ArmU	2441031	2462031	estimated_end	2441031
	located_end	2462031		
CH322-03D23 3LHet	379357	400357	estimated_end	379357
	located_end	400357		
CH322-03E01 2R	18937030	18958030	located_end	18937030
	estimated_end	18958030		
CH322-03E03 2L	5970156	5991156	estimated_end	5970156
	located_end	5991156		
CH322-03E10 4	1270490	1291490	estimated_end	1270490
	located_end	1291490		
CH322-03E18 2R	5679201	5700201	estimated_end	5679201
	located_end	5700201		
CH322-03E23 2RHet	629292	650292	estimated_end	629292
	located_end	650292		
CH322-03F02 3R	10914187	10935187	located_end	10914187
	estimated_end	10935187		
CH322-03F06 X	2237611	2258611	estimated_end	2237611
	located_end	2258611		
CH322-03F07 3L	523456	544456	located_end	523456
	estimated_end	544456		
CH322-03F09 2R	12166058	12187058	located_end	12166058
	estimated_end	12187058		
CH322-03F11 3LHet	544973	565973	located_end	544973
	estimated_end	565973		
CH322-03F15 2R	17832277	17853277	located_end	17832277
	estimated_end	17853277		
CH322-03F16 2R	9824781	9845781	located_end	9824781
	estimated_end	9845781		
CH322-03F19 3L	13052203	13073203	estimated_end	13052203
	located_end	13073203		
CH322-03F20 3R	19216679	19237679	estimated_end	19216679
	located_end	19237679		
CH322-03G01 3L	12842700	12863700	located_end	12842700
	estimated_end	12863700		

CH322-03G10 2L	15182323	15203323	located_end	15182323
	estimated_end	15203323		
CH322-03G11 ArmU	1431846	1452846	located_end	1431846
	estimated_end	1452846		
CH322-03G13 2R	2536361	2557361	estimated_end	2536361
	located_end	2557361		
CH322-03G19 2L	12468413	12489413	estimated_end	12468413
	located_end	12489413		
CH322-03G22 3L	6426263	6447263	estimated_end	6426263
	located_end	6447263		
CH322-03H04 X	6287028	6308028	estimated_end	6287028
	located_end	6308028		
CH322-03H13 2R	18028321	18049321	located_end	18028321
	estimated_end	18049321		
CH322-03H16 X	22021095	22042095	estimated_end	22021095
	located_end	22042095		
CH322-03H20 3R	12216050	12237050	located_end	12216050
	estimated_end	12237050		
CH322-03H24 2L	14760727	14781727	estimated_end	14760727
	located_end	14781727		
CH322-03I01 3R	6358044	6379044	estimated_end	6358044
	located_end	6379044		
CH322-03I08 2L	13917185	13938185	located_end	13917185
	estimated_end	13938185		
CH322-03I11 3R	176281	197281	located_end	176281
	estimated_end	197281		
CH322-03I15 X	16877537	16898537	located_end	16877537
	estimated_end	16898537		
CH322-03I23 3R	25655666	25676666	estimated_end	25655666
	located_end	25676666		
CH322-03I24 3L	4851960	4872960	estimated_end	4851960
	located_end	4872960		
CH322-03J02 3R	635604	656604	located_end	635604
	estimated_end	656604		
CH322-03J05 3R	10030050	10051050	estimated_end	10030050
	located_end	10051050		
CH322-03J07 3L	9107422	9128422	estimated_end	9107422
	located_end	9128422		
CH322-03J12 3L	8382119	8403119	located_end	8382119
	estimated_end	8403119		
CH322-03J15 X	1112805	1133805	located_end	1112805
	estimated_end	1133805		
CH322-03J16 3R	757569	778569	estimated_end	757569
	located_end	778569		
CH322-03J17 3R	2458096	2479096	located_end	2458096
	estimated_end	2479096		
CH322-03J22 3R	597457	618457	estimated_end	597457
	located_end	618457		
CH322-03K01 3L	21238247	21259247	estimated_end	21238247
	located_end	21259247		
CH322-03K03 3L	11696255	11717255	located_end	11696255
	estimated_end	11717255		
CH322-03K08 X	16175561	16196561	located_end	16175561
	estimated_end	16196561		

CH322-03K10 2L	437170	458170	estimated_end	437170
	located_end	458170		
CH322-03K16 2L	18607960	18628960	located_end	18607960
	estimated_end	18628960		
CH322-03K18 2L	452458	473458	estimated_end	452458
	located_end	473458		
CH322-03K22 2R	12268215	12289215	located_end	12268215
	estimated_end	12289215		
CH322-03K23 ArmU	201918	222918	located_end	201918
	estimated_end	222918		
CH322-03L04 X	1761566	1782566	located_end	1761566
	estimated_end	1782566		
CH322-03L10 3R	9072835	9093835	estimated_end	9072835
	located_end	9093835		
CH322-03L17 X	9412619	9433619	estimated_end	9412619
	located_end	9433619		
CH322-03L20 X	17177177	17198177	estimated_end	17177177
	located_end	17198177		
CH322-03L21 2R	1211999	1232999	located_end	1211999
	estimated_end	1232999		
CH322-03L22 3R	833345	854345	estimated_end	833345
	located_end	854345		
CH322-03M04 3RHet	1998001	2019001	estimated_end	1998001
	located_end	2019001		
CH322-03M05 ArmU	7398955	7419955	located_end	7398955
	estimated_end	7419955		
CH322-03M10 3LHet	1156217	1177217	located_end	1156217
	estimated_end	1177217		
CH322-03M13 X	1055357	1076357	located_end	1055357
	estimated_end	1076357		
CH322-03M19 2R	6511535	6532535	estimated_end	6511535
	located_end	6532535		
CH322-03M21 X	15466996	15487996	located_end	15466996
	estimated_end	15487996		
CH322-03M24 3L	4090496	4111496	located_end	4090496
	estimated_end	4111496		
CH322-03N09 2L	3523851	3544851	located_end	3523851
	estimated_end	3544851		
CH322-03N12 2RHet	2883820	2904820	estimated_end	2883820
	located_end	2904820		
CH322-03N24 2R	6025362	6046362	estimated_end	6025362
	located_end	6046362		
CH322-03O09 3R	4411537	4432537	located_end	4411537
	estimated_end	4432537		
CH322-03O16 3L	6919753	6940753	estimated_end	6919753
	located_end	6940753		
CH322-03O17 3R	7188016	7209016	located_end	7188016
	estimated_end	7209016		
CH322-03P07 ArmU	8251328	8272328	located_end	8251328
	estimated_end	8272328		
CH322-03P11 X	9149449	9170449	estimated_end	9149449
	located_end	9170449		
CH322-03P15 2R	3845075	3866075	located_end	3845075
	estimated_end	3866075		

CH322-03P17 2RHet	963353	984353	located_end	963353
	estimated_end	984353		
CH322-03P20 3L	12431777	12452777	estimated_end	12431777
	located_end	12452777		
CH322-03P21 3L	15505643	15526643	located_end	15505643
	estimated_end	15526643		
CH322-04A03 2RHet	935901	956901	located_end	935901
	estimated_end	956901		
CH322-04A05 2R	13911167	13932167	located_end	13911167
	estimated_end	13932167		
CH322-04A07 3L	6384816	6405816	located_end	6384816
	estimated_end	6405816		
CH322-04A14 3R	24956085	24977085	estimated_end	24956085
	located_end	24977085		
CH322-04A16 2L	7278423	7299423	located_end	7278423
	estimated_end	7299423		
CH322-04A18 3L	18744546	18765546	located_end	18744546
	estimated_end	18765546		
CH322-04A19 2R	2214022	2235022	located_end	2214022
	estimated_end	2235022		
CH322-04A24 2L	4986502	5007502	located_end	4986502
	estimated_end	5007502		
CH322-04B19 X	3710991	3731991	estimated_end	3710991
	located_end	3731991		
CH322-04B20 3L	684487	705487	located_end	684487
	estimated_end	705487		
CH322-04B21 X	14066585	14087585	estimated_end	14066585
	located_end	14087585		
CH322-04B22 2L	6518036	6539036	estimated_end	6518036
	located_end	6539036		
CH322-04C01 X	2614134	2635134	estimated_end	2614134
	located_end	2635134		
CH322-04C08 2RHet	2253538	2274538	estimated_end	2253538
	located_end	2274538		
CH322-04C12 2L	14360441	14381441	located_end	14360441
	estimated_end	14381441		
CH322-04C15 3R	6147778	6168778	located_end	6147778
	estimated_end	6168778		
CH322-04C16 2R	297077	318077	located_end	297077
	estimated_end	318077		
CH322-04C20 2R	7240733	7261733	estimated_end	7240733
	located_end	7261733		
CH322-04C23 2L	3050870	3071870	estimated_end	3050870
	located_end	3071870		
CH322-04D06 2L	1658711	1679711	located_end	1658711
	estimated_end	1679711		
CH322-04D08 3R	260799	281799	located_end	260799
	estimated_end	281799		
CH322-04D11 2L	1158808	1179808	estimated_end	1158808
	located_end	1179808		
CH322-04D15 2L	6341791	6362791	located_end	6341791
	estimated_end	6362791		
CH322-04D18 2R	8866257	8887257	located_end	8866257
	estimated_end	8887257		

CH322-04D21 3R	1137937	1158937	located_end	1137937
	estimated_end	1158937		
CH322-04E08 2R	10592680	10613680	located_end	10592680
	estimated_end	10613680		
CH322-04F01 X	4722052	4743052	estimated_end	4722052
	located_end	4743052		
CH322-04F06 X	21823824	21844824	estimated_end	21823824
	located_end	21844824		
CH322-04F09 3L	24394814	24415814	located_end	24394814
	estimated_end	24415814		
CH322-04F12 3R	18860109	18881109	estimated_end	18860109
	located_end	18881109		
CH322-04F20 3R	6048536	6069536	located_end	6048536
	estimated_end	6069536		
CH322-04G02 X	5898246	5919246	estimated_end	5898246
	located_end	5919246		
CH322-04G15 2L	18635429	18656429	estimated_end	18635429
	located_end	18656429		
CH322-04G18 2L	12268909	12289909	located_end	12268909
	estimated_end	12289909		
CH322-04G22 2L	13614223	13635223	located_end	13614223
	estimated_end	13635223		
CH322-04G24 3R	18875250	18896250	estimated_end	18875250
	located_end	18896250		
CH322-04H18 3R	21628892	21649892	located_end	21628892
	estimated_end	21649892		
CH322-04H22 X	19252866	19273866	located_end	19252866
	estimated_end	19273866		
CH322-04H23 X	1546012	1567012	estimated_end	1546012
	located_end	1567012		
CH322-04I07 2L	3839520	3860520	estimated_end	3839520
	located_end	3860520		
CH322-04I12 2R	6495310	6516310	located_end	6495310
	estimated_end	6516310		
CH322-04I14 2R	11611278	11632278	located_end	11611278
	estimated_end	11632278		
CH322-04I16 3L	3707278	3728278	estimated_end	3707278
	located_end	3728278		
CH322-04I18 3L	6395087	6416087	located_end	6395087
	estimated_end	6416087		
CH322-04I19 3R	21865517	21886517	located_end	21865517
	estimated_end	21886517		
CH322-04I20 X	7224636	7245636	located_end	7224636
	estimated_end	7245636		
CH322-04I21 2R	15759758	15780758	estimated_end	15759758
	located_end	15780758		
CH322-04I22 3L	21955901	21976901	estimated_end	21955901
	located_end	21976901		
CH322-04I24 3R	16234324	16255324	located_end	16234324
	estimated_end	16255324		
CH322-04J03 X	3094515	3115515	located_end	3094515
	estimated_end	3115515		
CH322-04J05 3R	20454084	20475084	located_end	20454084
	estimated_end	20475084		

CH322-04J06 2L	9889100	9910100	located_end	9889100
	estimated_end	9910100		
CH322-04J07 2L	20737162	20758162	estimated_end	20737162
	located_end	20758162		
CH322-04J10 3R	11740096	11761096	located_end	11740096
	estimated_end	11761096		
CH322-04J15 3R	24233808	24254808	estimated_end	24233808
	located_end	24254808		
CH322-04J18 2L	9220345	9241345	estimated_end	9220345
	located_end	9241345		
CH322-04J23 2L	15550037	15571037	located_end	15550037
	estimated_end	15571037		
CH322-04J24 3R	10821737	10842737	located_end	10821737
	estimated_end	10842737		
CH322-04K01 X	11265045	11286045	estimated_end	11265045
	located_end	11286045		
CH322-04K02 2R	10884840	10905840	located_end	10884840
	estimated_end	10905840		
CH322-04K06 X	16933869	16954869	estimated_end	16933869
	located_end	16954869		
CH322-04K09 2L	14725125	14746125	located_end	14725125
	estimated_end	14746125		
CH322-04K11 2L	-7684	13316	estimated_end	-7684
			located_end	13316
CH322-04K14 2L	6708549	6729549	located_end	6708549
	estimated_end	6729549		
CH322-04K15 2L	1843740	1864740	located_end	1843740
	estimated_end	1864740		
CH322-04K16 2L	9203991	9224991	located_end	9203991
	estimated_end	9224991		
CH322-04K21 2R	2831975	2852975	located_end	2831975
	estimated_end	2852975		
CH322-04K22 2R	10411285	10432285	located_end	10411285
	estimated_end	10432285		
CH322-04K23 2L	19125776	19146776	located_end	19125776
	estimated_end	19146776		
CH322-04L02 3R	3268260	3289260	estimated_end	3268260
	located_end	3289260		
CH322-04L04 3R	23628236	23649236	located_end	23628236
	estimated_end	23649236		
CH322-04L05 X	18942766	18963766	located_end	18942766
	estimated_end	18963766		
CH322-04L08 3L	11591505	11612505	located_end	11591505
	estimated_end	11612505		
CH322-04L15 3L	4541679	4562679	located_end	4541679
	estimated_end	4562679		
CH322-04L17 X	15996606	16017606	located_end	15996606
	estimated_end	16017606		
CH322-04L22 3L	22442575	22463575	estimated_end	22442575
	located_end	22463575		
CH322-04M01 2L	1285639	1306639	estimated_end	1285639
	located_end	1306639		
CH322-04M08 2L	190684	211684	located_end	190684
	estimated_end	211684		

CH322-04M12 2R	11043920	11064920	estimated_end	11043920
	located_end	11064920		
CH322-04N04 3R	22547071	22568071	estimated_end	22547071
	located_end	22568071		
CH322-04N14 3L	24154270	24175270	located_end	24154270
	estimated_end	24175270		
CH322-04N21 ArmU	2602897	2623897	estimated_end	2602897
	located_end	2623897		
CH322-04N22 2R	21045448	21066448	estimated_end	21045448
	located_end	21066448		
CH322-04O03 2RHet	3012906	3033906	located_end	3012906
	estimated_end	3033906		
CH322-04O06 2R	8656383	8677383	located_end	8656383
	estimated_end	8677383		
CH322-04O12 3L	10499187	10520187	estimated_end	10499187
	located_end	10520187		
CH322-04P20 ArmU	7853193	7874193	located_end	7853193
	estimated_end	7874193		
CH322-04P22 3L	13967915	13988915	located_end	13967915
	estimated_end	13988915		
CH322-04P24 3R	8452621	8473621	estimated_end	8452621
	located_end	8473621		
CH322-05A12 ArmU	7629625	7650625	estimated_end	7629625
	located_end	7650625		
CH322-05A13 3L	62321	83321	located_end	62321
	estimated_end	83321		
CH322-05A17 3R	26433271	26454271	located_end	26433271
	estimated_end	26454271		
CH322-05A18 ArmU	6967226	6988226	located_end	6967226
	estimated_end	6988226		
CH322-05B01 3R	25363607	25384607	estimated_end	25363607
	located_end	25384607		
CH322-05B06 3R	5646764	5667764	located_end	5646764
	estimated_end	5667764		
CH322-05B12 ArmU	415052	436052	located_end	415052
	estimated_end	436052		
CH322-05B19 3L	11127542	11148542	estimated_end	11127542
	located_end	11148542		
CH322-05B21 2R	20999702	21020702	estimated_end	20999702
	located_end	21020702		
CH322-05B22 3L	6225709	6246709	estimated_end	6225709
	located_end	6246709		
CH322-05C01 3R	24582912	24603912	located_end	24582912
	estimated_end	24603912		
CH322-05C05 2L	20425916	20446916	located_end	20425916
	estimated_end	20446916		
CH322-05C19 2LHet	326931	347931	estimated_end	326931
	located_end	347931		
CH322-05D01 X	17916539	17937539	located_end	17916539
	estimated_end	17937539		
CH322-05D02 3R	17293485	17314485	located_end	17293485
	estimated_end	17314485		
CH322-05D21 3L	6166133	6187133	estimated_end	6166133
	located_end	6187133		

CH322-05D24 3R	23000182	23021182	located_end	23000182
	estimated_end	23021182		
CH322-05E09 ArmU	470017	491017	estimated_end	470017
	located_end	491017		
CH322-05E13 3L	24527970	24548970	located_end	24527970
	estimated_end	24548970		
CH322-05E17 3R	23576625	23597625	estimated_end	23576625
	located_end	23597625		
CH322-05E23 2R	20378739	20399739	estimated_end	20378739
	located_end	20399739		
CH322-05E24 3L	15912811	15933811	located_end	15912811
	estimated_end	15933811		
CH322-05F02 2R	4621767	4642767	estimated_end	4621767
	located_end	4642767		
CH322-05F06 2RHet	3095297	3116297	estimated_end	3095297
	located_end	3116297		
CH322-05F07 3R	22019755	22040755	located_end	22019755
	estimated_end	22040755		
CH322-05F09 3R	624700	645700	estimated_end	624700
	located_end	645700		
CH322-05F13 2RHet	2246571	2267571	located_end	2246571
	estimated_end	2267571		
CH322-05F15 2R	13292233	13313233	located_end	13292233
	estimated_end	13313233		
CH322-05F16 2R	1027746	1048746	located_end	1027746
	estimated_end	1048746		
CH322-05F17 3L	3221523	3242523	estimated_end	3221523
	located_end	3242523		
CH322-05F19 3RHet	2112862	2133862	estimated_end	2112862
	located_end	2133862		
CH322-05F20 YHet	41629	62629	located_end	41629
	estimated_end	62629		
CH322-05G07 2R	5593160	5614160	located_end	5593160
	estimated_end	5614160		
CH322-05G08 X	19833898	19854898	estimated_end	19833898
	located_end	19854898		
CH322-05G17 3L	1939005	1960005	located_end	1939005
	estimated_end	1960005		
CH322-05H18 3L	2334372	2355372	estimated_end	2334372
	located_end	2355372		
CH322-05H19 X	21167811	21188811	located_end	21167811
	estimated_end	21188811		
CH322-05H23 3R	24667121	24688121	estimated_end	24667121
	located_end	24688121		
CH322-05I01 X	10574634	10595634	located_end	10574634
	estimated_end	10595634		
CH322-05I18 X	21669038	21690038	located_end	21669038
	estimated_end	21690038		
CH322-05I21 3R	20843817	20864817	located_end	20843817
	estimated_end	20864817		
CH322-05J01 3L	22300823	22321823	located_end	22300823
	estimated_end	22321823		
CH322-05J12 3R	8376522	8397522	located_end	8376522
	estimated_end	8397522		

CH322-05J18 2R	14535774	14556774	estimated_end	14535774
	located_end	14556774		
CH322-05J20 3L	20511762	20532762	estimated_end	20511762
	located_end	20532762		
CH322-05K06 2L	20744655	20765655	estimated_end	20744655
	located_end	20765655		
CH322-05K21 3R	24882109	24903109	estimated_end	24882109
	located_end	24903109		
CH322-05L02 3L	23212565	23233565	estimated_end	23212565
	located_end	23233565		
CH322-05L13 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-05L15 3L	9072227	9093227	estimated_end	9072227
	located_end	9093227		
CH322-05N04 3R	4697171	4718171	estimated_end	4697171
	located_end	4718171		
CH322-05N23 4	750646	771646	estimated_end	750646
	located_end	771646		
CH322-05N24 X	10666379	10687379	estimated_end	10666379
	located_end	10687379		
CH322-05O04 2R	794912	815912	located_end	794912
	estimated_end	815912		
CH322-05O12 2RHet	1732600	1753600	located_end	1732600
	estimated_end	1753600		
CH322-05O20 2L	11372634	11393634	located_end	11372634
	estimated_end	11393634		
CH322-05O21 2R	7684333	7705333	located_end	7684333
	estimated_end	7705333		
CH322-05P08 2RHet	1084877	1105877	located_end	1084877
	estimated_end	1105877		
CH322-05P11 3R	15056924	15077924	located_end	15056924
	estimated_end	15077924		
CH322-05P15 3R	21016949	21037949	located_end	21016949
	estimated_end	21037949		
CH322-05P18 2R	17646273	17667273	estimated_end	17646273
	located_end	17667273		
CH322-05P22 2L	15768243	15789243	estimated_end	15768243
	located_end	15789243		
CH322-05P24 3LHet	989955	1010955	located_end	989955
	estimated_end	1010955		
CH322-06A09 3R	27255430	27276430	estimated_end	27255430
	located_end	27276430		
CH322-06A11 2R	15411056	15432056	located_end	15411056
	estimated_end	15432056		
CH322-06A18 3L	15303328	15324328	located_end	15303328
	estimated_end	15324328		
CH322-06B03 ArmU	4789003	4810003	located_end	4789003
	estimated_end	4810003		
CH322-06B06 3R	9679088	9700088	located_end	9679088
	estimated_end	9700088		
CH322-06B17 3R	1386277	1407277	estimated_end	1386277
	located_end	1407277		
CH322-06B22 3R	20839648	20860648	estimated_end	20839648
	located_end	20860648		

CH322-06C01 2R	16835493	16856493	estimated_end	16835493
	located_end	16856493		
CH322-06C23 X	1083821	1104821	estimated_end	1083821
	located_end	1104821		
CH322-06C24 2R	3690036	3711036	located_end	3690036
	estimated_end	3711036		
CH322-06D05 2R	6316896	6337896	located_end	6316896
	estimated_end	6337896		
CH322-06D07 4	438027	459027	located_end	438027
	estimated_end	459027		
CH322-06D16 2RHet	2983520	3004520	located_end	2983520
	estimated_end	3004520		
CH322-06E03 3R	20418564	20439564	estimated_end	20418564
	located_end	20439564		
CH322-06E04 2L	8295045	8316045	estimated_end	8295045
	located_end	8316045		
CH322-06F13 2R	12206379	12227379	located_end	12206379
	estimated_end	12227379		
CH322-06F14 2RHet	2273342	2294342	located_end	2273342
	estimated_end	2294342		
CH322-06F17 2L	10473583	10494583	located_end	10473583
	estimated_end	10494583		
CH322-06F24 3L	3654606	3675606	estimated_end	3654606
	located_end	3675606		
CH322-06G05 X	6665734	6686734	located_end	6665734
	estimated_end	6686734		
CH322-06G06 ArmU	9108482	9129482	estimated_end	9108482
	located_end	9129482		
CH322-06G09 2L	13366454	13387454	estimated_end	13366454
	located_end	13387454		
CH322-06G10 3L	6426685	6447685	located_end	6426685
	estimated_end	6447685		
CH322-06G16 2R	17422532	17443532	estimated_end	17422532
	located_end	17443532		
CH322-06G17 3R	11558358	11579358	located_end	11558358
	estimated_end	11579358		
CH322-06G18 ArmU	7278881	7299881	estimated_end	7278881
	located_end	7299881		
CH322-06G22 X	8592711	8613711	estimated_end	8592711
	located_end	8613711		
CH322-06G23 3R	6868017	6889017	estimated_end	6868017
	located_end	6889017		
CH322-06G24 2RHet	2114504	2135504	estimated_end	2114504
	located_end	2135504		
CH322-06H07 2L	3036617	3057617	located_end	3036617
	estimated_end	3057617		
CH322-06H13 2L	915768	936768	estimated_end	915768
	located_end	936768		
CH322-06H15 2L	17836319	17857319	located_end	17836319
	estimated_end	17857319		
CH322-06H23 3R	23538312	23559312	estimated_end	23538312
	located_end	23559312		
CH322-06I01 3L	13484378	13505378	located_end	13484378
	estimated_end	13505378		

CH322-06I07 3L	310304	331304	located_end	310304
	estimated_end	331304		
CH322-06I10 3R	15480447	15501447	estimated_end	15480447
	located_end	15501447		
CH322-06I15 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-06I21 X	17409325	17430325	located_end	17409325
	estimated_end	17430325		
CH322-06J05 2RHet	1894260	1915260	located_end	1894260
	estimated_end	1915260		
CH322-06J12 3R	4189646	4210646	located_end	4189646
	estimated_end	4210646		
CH322-06J15 3RHet	226943	247943	located_end	226943
	estimated_end	247943		
CH322-06J17 2R	2884088	2905088	estimated_end	2884088
	located_end	2905088		
CH322-06J21 2R	17173501	17194501	located_end	17173501
	estimated_end	17194501		
CH322-06J22 3L	9296633	9317633	located_end	9296633
	estimated_end	9317633		
CH322-06J23 3R	8229860	8250860	located_end	8229860
	estimated_end	8250860		
CH322-06K04 2R	13439140	13460140	located_end	13439140
	estimated_end	13460140		
CH322-06K07 3L	24123056	24144056	located_end	24123056
	estimated_end	24144056		
CH322-06K10 3R	8628649	8649649	estimated_end	8628649
	located_end	8649649		
CH322-06K16 3R	11023186	11044186	estimated_end	11023186
	located_end	11044186		
CH322-06K17 3R	27852812	27873812	located_end	27852812
	estimated_end	27873812		
CH322-06K18 2R	1954008	1975008	estimated_end	1954008
	located_end	1975008		
CH322-06K20 2R	1342587	1363587	estimated_end	1342587
	located_end	1363587		
CH322-06L05 3R	23689228	23710228	estimated_end	23689228
	located_end	23710228		
CH322-06L08 3LHet	1983045	2004045	located_end	1983045
	estimated_end	2004045		
CH322-06L09 2L	197516	218516	estimated_end	197516
	located_end	218516		
CH322-06L11 X	8464410	8485410	located_end	8464410
	estimated_end	8485410		
CH322-06L13 ArmU	9997155	10018155	located_end	9997155
	estimated_end	10018155		
CH322-06L19 2L	6979352	7000352	estimated_end	6979352
	located_end	7000352		
CH322-06M10 3R	10511944	10532944	estimated_end	10511944
	located_end	10532944		
CH322-06M11 2R	19312754	19333754	estimated_end	19312754
	located_end	19333754		
CH322-06M17 2L	10766942	10787942	estimated_end	10766942
	located_end	10787942		

CH322-06M23 2L	8487231	8508231	estimated_end	8487231
	located_end	8508231		
CH322-06M24 X	511099	532099	located_end	511099
	estimated_end	532099		
CH322-06N03 2R	18262689	18283689	located_end	18262689
	estimated_end	18283689		
CH322-06N09 3L	11732459	11753459	estimated_end	11732459
	located_end	11753459		
CH322-06N23 2R	10946071	10967071	estimated_end	10946071
	located_end	10967071		
CH322-06O06 2R	3105685	3126685	located_end	3105685
	estimated_end	3126685		
CH322-06O12 2R	17251577	17272577	located_end	17251577
	estimated_end	17272577		
CH322-06O17 2L	19233151	19254151	located_end	19233151
	estimated_end	19254151		
CH322-06O21 3R	14852310	14873310	located_end	14852310
	estimated_end	14873310		
CH322-06O22 3R	16405759	16426759	estimated_end	16405759
	located_end	16426759		
CH322-06O23 3R	4084214	4105214	estimated_end	4084214
	located_end	4105214		
CH322-06P10 X	21783125	21804125	estimated_end	21783125
	located_end	21804125		
CH322-06P11 2L	15428340	15449340	located_end	15428340
	estimated_end	15449340		
CH322-06P14 3L	17448883	17469883	estimated_end	17448883
	located_end	17469883		
CH322-06P15 2L	6780613	6801613	estimated_end	6780613
	located_end	6801613		
CH322-06P19 X	11890610	11911610	estimated_end	11890610
	located_end	11911610		
CH322-07A15 3L	21380502	21401502	located_end	21380502
	estimated_end	21401502		
CH322-07A18 4	374084	395084	located_end	374084
	estimated_end	395084		
CH322-07A24 2L	11620612	11641612	estimated_end	11620612
	located_end	11641612		
CH322-07B03 2RHet	779344	800344	located_end	779344
	estimated_end	800344		
CH322-07B06 2L	15709321	15730321	estimated_end	15709321
	located_end	15730321		
CH322-07B07 2L	790605	811605	located_end	790605
	estimated_end	811605		
CH322-07B08 ArmU	128479	149479	located_end	128479
	estimated_end	149479		
CH322-07B09 2L	15464101	15485101	estimated_end	15464101
	located_end	15485101		
CH322-07B11 3R	4149721	4170721	located_end	4149721
	estimated_end	4170721		
CH322-07B12 3L	785663	806663	estimated_end	785663
	located_end	806663		
CH322-07B20 X	7917260	7938260	estimated_end	7917260
	located_end	7938260		

CH322-07C03 2L	22667604	22688604	located_end	22667604
	estimated_end	22688604		
CH322-07C08 2R	4962406	4983406	located_end	4962406
	estimated_end	4983406		
CH322-07C09 2R	18141400	18162400	located_end	18141400
	estimated_end	18162400		
CH322-07D06 2L	6796035	6817035	located_end	6796035
	estimated_end	6817035		
CH322-07D09 2R	14152443	14173443	located_end	14152443
	estimated_end	14173443		
CH322-07D12 X	17753228	17774228	located_end	17753228
	estimated_end	17774228		
CH322-07D14 ArmU	5698295	5719295	located_end	5698295
	estimated_end	5719295		
CH322-07D16 2RHet	1755271	1776271	located_end	1755271
	estimated_end	1776271		
CH322-07D18 X	17475855	17496855	estimated_end	17475855
	located_end	17496855		
CH322-07E04 3LHet	1033369	1054369	estimated_end	1033369
	located_end	1054369		
CH322-07E06 3L	6908010	6929010	located_end	6908010
	estimated_end	6929010		
CH322-07E07 2L	7642840	7663840	estimated_end	7642840
	located_end	7663840		
CH322-07E08 3RHet	2211377	2232377	located_end	2211377
	estimated_end	2232377		
CH322-07E12 3L	11143515	11164515	estimated_end	11143515
	located_end	11164515		
CH322-07E13 2R	20232341	20253341	estimated_end	20232341
	located_end	20253341		
CH322-07E18 3R	1261033	1282033	estimated_end	1261033
	located_end	1282033		
CH322-07E19 2L	12866920	12887920	located_end	12866920
	estimated_end	12887920		
CH322-07F06 3RHet	437585	458585	located_end	437585
	estimated_end	458585		
CH322-07F08 2L	3472944	3493944	located_end	3472944
	estimated_end	3493944		
CH322-07F10 3R	19762364	19783364	estimated_end	19762364
	located_end	19783364		
CH322-07F15 ArmU	5611467	5632467	located_end	5611467
	estimated_end	5632467		
CH322-07F17 3R	19563177	19584177	located_end	19563177
	estimated_end	19584177		
CH322-07F23 3R	16537075	16558075	estimated_end	16537075
	located_end	16558075		
CH322-07G05 3R	982584	1003584	estimated_end	982584
	located_end	1003584		
CH322-07G07 2R	4175201	4196201	estimated_end	4175201
	located_end	4196201		
CH322-07G08 X	6683223	6704223	estimated_end	6683223
	located_end	6704223		
CH322-07G09 2L	8727818	8748818	estimated_end	8727818
	located_end	8748818		

CH322-07G10 3L	7540863	7561863	located_end	7540863
	estimated_end	7561863		
CH322-07G16 3RHet	2488924	2509924	estimated_end	2488924
	located_end	2509924		
CH322-07G19 2R	11144899	11165899	located_end	11144899
	estimated_end	11165899		
CH322-07H04 3L	468915	489915	estimated_end	468915
	located_end	489915		
CH322-07H06 2L	7840992	7861992	estimated_end	7840992
	located_end	7861992		
CH322-07H07 X	303740	324740	located_end	303740
	estimated_end	324740		
CH322-07H08 3L	19970095	19991095	located_end	19970095
	estimated_end	19991095		
CH322-07H09 3R	16755766	16776766	located_end	16755766
	estimated_end	16776766		
CH322-07H10 3R	11759784	11780784	estimated_end	11759784
	located_end	11780784		
CH322-07H12 3R	20850251	20871251	estimated_end	20850251
	located_end	20871251		
CH322-07H14 X	3391141	3412141	estimated_end	3391141
	located_end	3412141		
CH322-07H16 X	7213592	7234592	estimated_end	7213592
	located_end	7234592		
CH322-07H17 3L	7807970	7828970	estimated_end	7807970
	located_end	7828970		
CH322-07H18 2R	10665094	10686094	estimated_end	10665094
	located_end	10686094		
CH322-07H22 X	16310875	16331875	located_end	16310875
	estimated_end	16331875		
CH322-07I05 2R	16918419	16939419	located_end	16918419
	estimated_end	16939419		
CH322-07I07 X	5203548	5224548	located_end	5203548
	estimated_end	5224548		
CH322-07I09 X	9122653	9143653	estimated_end	9122653
	located_end	9143653		
CH322-07I10 3L	9552270	9573270	located_end	9552270
	estimated_end	9573270		
CH322-07I14 3R	13363515	13384515	located_end	13363515
	estimated_end	13384515		
CH322-07I17 2L	9709401	9730401	located_end	9709401
	estimated_end	9730401		
CH322-07I18 4	1276303	1297303	located_end	1276303
	estimated_end	1297303		
CH322-07I20 X	10246032	10267032	estimated_end	10246032
	located_end	10267032		
CH322-07J05 3R	8033891	8054891	estimated_end	8033891
	located_end	8054891		
CH322-07J06 3R	10992871	11013871	estimated_end	10992871
	located_end	11013871		
CH322-07J07 2R	6359682	6380682	estimated_end	6359682
	located_end	6380682		
CH322-07J12 3L	12395768	12416768	located_end	12395768
	estimated_end	12416768		

CH322-07J14 X	14230244	14251244	estimated_end	14230244
	located_end	14251244		
CH322-07J15 3L	840299	861299	located_end	840299
	estimated_end	861299		
CH322-07J16 2L	11103407	11124407	located_end	11103407
	estimated_end	11124407		
CH322-07J20 2L	2096952	2117952	located_end	2096952
	estimated_end	2117952		
CH322-07K05 3L	16035522	16056522	estimated_end	16035522
	located_end	16056522		
CH322-07K08 3LHet	639395	660395	located_end	639395
	estimated_end	660395		
CH322-07K09 2L	6135965	6156965	estimated_end	6135965
	located_end	6156965		
CH322-07K10 2R	18141400	18162400	located_end	18141400
	estimated_end	18162400		
CH322-07K14 3L	13373047	13394047	estimated_end	13373047
	located_end	13394047		
CH322-07K20 X	15302604	15323604	located_end	15302604
	estimated_end	15323604		
CH322-07K23 2L	12285967	12306967	located_end	12285967
	estimated_end	12306967		
CH322-07L08 3L	22267603	22288603	located_end	22267603
	estimated_end	22288603		
CH322-07L10 2RHet	2886242	2907242	estimated_end	2886242
	located_end	2907242		
CH322-07L13 2L	22512449	22533449	estimated_end	22512449
	located_end	22533449		
CH322-07L14 2L	14605958	14626958	estimated_end	14605958
	located_end	14626958		
CH322-07L19 3R	17231979	17252979	located_end	17231979
	estimated_end	17252979		
CH322-07L21 3R	3136933	3157933	located_end	3136933
	estimated_end	3157933		
CH322-07L23 3R	26310180	26331180	estimated_end	26310180
	located_end	26331180		
CH322-07M01 3R	21745196	21766196	located_end	21745196
	estimated_end	21766196		
CH322-07M06 2L	8040433	8061433	located_end	8040433
	estimated_end	8061433		
CH322-07M10 X	6198240	6219240	estimated_end	6198240
	located_end	6219240		
CH322-07M13 2R	3382796	3403796	located_end	3382796
	estimated_end	3403796		
CH322-07M16 2R	20060419	20081419	located_end	20060419
	estimated_end	20081419		
CH322-07M19 2R	6597270	6618270	estimated_end	6597270
	located_end	6618270		
CH322-07M23 3R	22207229	22228229	estimated_end	22207229
	located_end	22228229		
CH322-07N07 3L	6125247	6146247	located_end	6125247
	estimated_end	6146247		
CH322-07N12 3L	336831	357831	estimated_end	336831
	located_end	357831		

CH322-07N18 2R	9725018	9746018	located_end 9725018
estimated_end	9746018		
CH322-07N19 X	4291115	4312115	located_end 4291115
estimated_end	4312115		
CH322-07O03 2RHet	609280	630280	located_end 609280
estimated_end	630280		
CH322-07O05 X	2912996	2933996	estimated_end 2912996
located_end	2933996		
CH322-07O10 3R	12140241	12161241	located_end 12140241
estimated_end	12161241		
CH322-07O20 3R	20420479	20441479	estimated_end 20420479
located_end	20441479		
CH322-07O22 X	19178441	19199441	located_end 19178441
estimated_end	19199441		
CH322-07P02 2R	17635477	17656477	estimated_end 17635477
located_end	17656477		
CH322-07P03 2R	5920614	5941614	located_end 5920614
estimated_end	5941614		
CH322-07P13 2L	16904285	16925285	located_end 16904285
estimated_end	16925285		
CH322-07P15 3R	1333100	1354100	located_end 1333100
estimated_end	1354100		
CH322-07P17 X	18350090	18371090	estimated_end 18350090
located_end	18371090		
CH322-07P19 2R	15637633	15658633	estimated_end 15637633
located_end	15658633		
CH322-08A06 3RHet	2156269	2177269	located_end 2156269
estimated_end	2177269		
CH322-08A08 X	11618537	11639537	located_end 11618537
estimated_end	11639537		
CH322-08A15 2R	8193803	8214803	estimated_end 8193803
located_end	8214803		
CH322-08A20 2RHet	142884	163884	located_end 142884
estimated_end	163884		
CH322-08B08 X	1190909	1211909	estimated_end 1190909
located_end	1211909		
CH322-08B11 2L	4891719	4912719	estimated_end 4891719
located_end	4912719		
CH322-08B12 2L	9612025	9633025	located_end 9612025
estimated_end	9633025		
CH322-08B13 3L	20520404	20541404	estimated_end 20520404
located_end	20541404		
CH322-08B20 4	751824	772824	estimated_end 751824
located_end	772824		
CH322-08B22 3R	3009231	3030231	estimated_end 3009231
located_end	3030231		
CH322-08B23 2L	19924685	19945685	located_end 19924685
estimated_end	19945685		
CH322-08C03 3R	17177534	17198534	estimated_end 17177534
located_end	17198534		
CH322-08C05 3L	19848861	19869861	estimated_end 19848861
located_end	19869861		
CH322-08C09 3R	8795770	8816770	located_end 8795770
estimated_end	8816770		

CH322-08C10 3L	12289978	12310978	estimated_end	12289978
	located_end	12310978		
CH322-08C14 3L	6389186	6410186	located_end	6389186
	estimated_end	6410186		
CH322-08C18 2RHet	1539593	1560593	estimated_end	1539593
	located_end	1560593		
CH322-08D21 2RHet	3239123	3260123	located_end	3239123
	estimated_end	3260123		
CH322-08D22 3R	25294560	25315560	estimated_end	25294560
	located_end	25315560		
CH322-08E01 2L	5073865	5094865	located_end	5073865
	estimated_end	5094865		
CH322-08E07 3L	13234776	13255776	estimated_end	13234776
	located_end	13255776		
CH322-08E10 3R	26407565	26428565	located_end	26407565
	estimated_end	26428565		
CH322-08E14 3R	19989763	20010763	located_end	19989763
	estimated_end	20010763		
CH322-08E15 3L	4513685	4534685	estimated_end	4513685
	located_end	4534685		
CH322-08E18 3L	7872934	7893934	estimated_end	7872934
	located_end	7893934		
CH322-08E19 3R	4709045	4730045	located_end	4709045
	estimated_end	4730045		
CH322-08E22 2R	16165615	16186615	estimated_end	16165615
	located_end	16186615		
CH322-08F02 2R	9014654	9035654	estimated_end	9014654
	located_end	9035654		
CH322-08F04 X	18481497	18502497	located_end	18481497
	estimated_end	18502497		
CH322-08F07 X	4888566	4909566	estimated_end	4888566
	located_end	4909566		
CH322-08F08 3R	3227717	3248717	estimated_end	3227717
	located_end	3248717		
CH322-08F14 X	21382854	21403854	located_end	21382854
	estimated_end	21403854		
CH322-08F23 ArmU	9774936	9795936	estimated_end	9774936
	located_end	9795936		
CH322-08F24 2R	4594472	4615472	estimated_end	4594472
	located_end	4615472		
CH322-08G04 2R	4875085	4896085	estimated_end	4875085
	located_end	4896085		
CH322-08G11 ArmU	9186449	9207449	estimated_end	9186449
	located_end	9207449		
CH322-08G16 2L	14687837	14708837	located_end	14687837
	estimated_end	14708837		
CH322-08G18 2R	16105349	16126349	estimated_end	16105349
	located_end	16126349		
CH322-08H06 2R	11237997	11258997	located_end	11237997
	estimated_end	11258997		
CH322-08H08 3R	9668213	9689213	estimated_end	9668213
	located_end	9689213		
CH322-08H14 2L	5041001	5062001	located_end	5041001
	estimated_end	5062001		

CH322-08H20 X	14535980	14556980	located_end	14535980
	estimated_end	14556980		
CH322-08H24 2R	10031189	10052189	located_end	10031189
	estimated_end	10052189		
CH322-08I12 X	2309770	2330770	estimated_end	2309770
	located_end	2330770		
CH322-08I15 2R	6524510	6545510	located_end	6524510
	estimated_end	6545510		
CH322-08I21 3R	5446351	5467351	estimated_end	5446351
	located_end	5467351		
CH322-08I23 X	2565251	2586251	estimated_end	2565251
	located_end	2586251		
CH322-08J02 X	15844328	15865328	located_end	15844328
	estimated_end	15865328		
CH322-08J04 2R	16138830	16159830	located_end	16138830
	estimated_end	16159830		
CH322-08J08 3R	25121021	25142021	estimated_end	25121021
	located_end	25142021		
CH322-08J10 ArmU	8747089	8768089	located_end	8747089
	estimated_end	8768089		
CH322-08K02 2L	1805374	1826374	estimated_end	1805374
	located_end	1826374		
CH322-08K09 3L	11579593	11600593	estimated_end	11579593
	located_end	11600593		
CH322-08K11 X	18225208	18246208	estimated_end	18225208
	located_end	18246208		
CH322-08K13 2L	12258314	12279314	estimated_end	12258314
	located_end	12279314		
CH322-08K16 2L	12891952	12912952	located_end	12891952
	estimated_end	12912952		
CH322-08K18 2R	16850535	16871535	estimated_end	16850535
	located_end	16871535		
CH322-08K20 X	13782892	13803892	estimated_end	13782892
	located_end	13803892		
CH322-08L08 2RHet	1696008	1717008	located_end	1696008
	estimated_end	1717008		
CH322-08L14 3R	16668633	16689633	located_end	16668633
	estimated_end	16689633		
CH322-08L15 3L	15950656	15971656	located_end	15950656
	estimated_end	15971656		
CH322-08L17 3L	23404323	23425323	estimated_end	23404323
	located_end	23425323		
CH322-08L22 X	17680084	17701084	located_end	17680084
	estimated_end	17701084		
CH322-08L23 2L	6034753	6055753	estimated_end	6034753
	located_end	6055753		
CH322-08M08 2R	14132281	14153281	estimated_end	14132281
	located_end	14153281		
CH322-08M11 2RHet	517347	538347	estimated_end	517347
	located_end	538347		
CH322-08M12 X	13342797	13363797	located_end	13342797
	estimated_end	13363797		
CH322-08M15 3R	14644635	14665635	estimated_end	14644635
	located_end	14665635		

CH322-08M21 2RHet	2879438	2900438	estimated_end	2879438
	located_end	2900438		
CH322-08M24 X	22094172	22115172	estimated_end	22094172
	located_end	22115172		
CH322-08N08 3L	4849 25849		estimated_end	4849 located_end 25849
CH322-08N09 2L	1727468	1748468	estimated_end	1727468
	located_end	1748468		
CH322-08N12 3R	5522659	5543659	estimated_end	5522659
	located_end	5543659		
CH322-08N16 X	14588638	14609638	located_end	14588638
	estimated_end	14609638		
CH322-08N18 3L	8694131	8715131	located_end	8694131
	estimated_end	8715131		
CH322-08N23 3L	19797146	19818146	located_end	19797146
	estimated_end	19818146		
CH322-08O19 3R	2659952	2680952	estimated_end	2659952
	located_end	2680952		
CH322-08O20 ArmU	661907	682907	estimated_end	661907
	located_end	682907		
CH322-08P08 3R	97883 118883		estimated_end	97883 located_end 118883
CH322-08P09 2R	10284171	10305171	estimated_end	10284171
	located_end	10305171		
CH322-08P11 3R	17867999	17888999	located_end	17867999
	estimated_end	17888999		
CH322-08P14 X	14216479	14237479	located_end	14216479
	estimated_end	14237479		
CH322-08P15 X	7772221	7793221	located_end	7772221
	estimated_end	7793221		
CH322-08P19 2R	10884898	10905898	located_end	10884898
	estimated_end	10905898		
CH322-08P20 3R	25672880	25693880	estimated_end	25672880
	located_end	25693880		
CH322-09A01 X	15329128	15350128	estimated_end	15329128
	located_end	15350128		
CH322-09A13 2L	22525272	22546272	located_end	22525272
	estimated_end	22546272		
CH322-09A22 3L	20338512	20359512	estimated_end	20338512
	located_end	20359512		
CH322-09B08 3R	82834 103834		located_end 82834	estimated_end 103834
CH322-09B14 X	2312020	2333020	located_end	2312020
	estimated_end	2333020		
CH322-09B15 ArmU	3112835	3133835	estimated_end	3112835
	located_end	3133835		
CH322-09B22 3R	22898177	22919177	estimated_end	22898177
	located_end	22919177		
CH322-09B24 2R	1116583	1137583	estimated_end	1116583
	located_end	1137583		
CH322-09C05 2R	19895251	19916251	located_end	19895251
	estimated_end	19916251		
CH322-09C06 2L	4205181	4226181	located_end	4205181
	estimated_end	4226181		

CH322-09C10 3L	858801	879801	estimated_end	858801
	located_end	879801		
CH322-09C15 3R	27298247	27319247	located_end	27298247
	estimated_end	27319247		
CH322-09C24 3L	14049432	14070432	located_end	14049432
	estimated_end	14070432		
CH322-09D01 3R	23101937	23122937	estimated_end	23101937
	located_end	23122937		
CH322-09D23 2R	5891911	5912911	estimated_end	5891911
	located_end	5912911		
CH322-09E01 3R	770081	791081	estimated_end	770081
	located_end	791081		
CH322-09E15 X	22228420	22249420	located_end	22228420
	estimated_end	22249420		
CH322-09E19 X	7721959	7742959	located_end	7721959
	estimated_end	7742959		
CH322-09E21 2RHet	1889527	1910527	located_end	1889527
	estimated_end	1910527		
CH322-09F12 3R	8479066	8500066	estimated_end	8479066
	located_end	8500066		
CH322-09F16 3R	23739269	23760269	located_end	23739269
	estimated_end	23760269		
CH322-09F20 X	12661199	12682199	located_end	12661199
	estimated_end	12682199		
CH322-09F23 X	14063486	14084486	estimated_end	14063486
	located_end	14084486		
CH322-09F24 3R	21750628	21771628	estimated_end	21750628
	located_end	21771628		
CH322-09G01 2R	4754343	4775343	located_end	4754343
	estimated_end	4775343		
CH322-09G07 ArmU	8188144	8209144	located_end	8188144
	estimated_end	8209144		
CH322-09G15 X	18145800	18166800	located_end	18145800
	estimated_end	18166800		
CH322-09G16 2R	20134535	20155535	estimated_end	20134535
	located_end	20155535		
CH322-09G19 3R	8876810	8897810	located_end	8876810
	estimated_end	8897810		
CH322-09G21 3R	13510342	13531342	located_end	13510342
	estimated_end	13531342		
CH322-09G23 3LHet	353026	374026	estimated_end	353026
	located_end	374026		
CH322-09H04 2RHet	2182410	2203410	estimated_end	2182410
	located_end	2203410		
CH322-09H06 3L	19264561	19285561	located_end	19264561
	estimated_end	19285561		
CH322-09H08 2R	3125664	3146664	estimated_end	3125664
	located_end	3146664		
CH322-09H14 3L	21698105	21719105	located_end	21698105
	estimated_end	21719105		
CH322-09H16 3R	25390285	25411285	located_end	25390285
	estimated_end	25411285		
CH322-09H20 3L	16338643	16359643	estimated_end	16338643
	located_end	16359643		

CH322-09H22 X	22393155	22414155	estimated_end	22393155
	located_end	22414155		
CH322-09H24 3R	23036707	23057707	estimated_end	23036707
	located_end	23057707		
CH322-09I01 3R	8905541	8926541	located_end	8905541
	estimated_end	8926541		
CH322-09I02 2R	4123355	4144355	estimated_end	4123355
	located_end	4144355		
CH322-09I09 X	1425783	1446783	estimated_end	1425783
	located_end	1446783		
CH322-09I15 3R	17520445	17541445	located_end	17520445
	estimated_end	17541445		
CH322-09I23 2R	25520	46520	estimated_end	25520
			located_end	46520
CH322-09J01 3L	19273312	19294312	estimated_end	19273312
	located_end	19294312		
CH322-09J04 X	4531259	4552259	estimated_end	4531259
	located_end	4552259		
CH322-09J05 2R	20954619	20975619	estimated_end	20954619
	located_end	20975619		
CH322-09J10 3R	10946224	10967224	estimated_end	10946224
	located_end	10967224		
CH322-09J15 3L	3261621	3282621	located_end	3261621
	estimated_end	3282621		
CH322-09J18 3L	22002443	22023443	located_end	22002443
	estimated_end	22023443		
CH322-09J19 3L	5373930	5394930	estimated_end	5373930
	located_end	5394930		
CH322-09J21 X	15000306	15021306	located_end	15000306
	estimated_end	15021306		
CH322-09J23 3R	26765444	26786444	located_end	26765444
	estimated_end	26786444		
CH322-09K02 X	9546090	9567090	estimated_end	9546090
	located_end	9567090		
CH322-09K03 3L	10954120	10975120	estimated_end	10954120
	located_end	10975120		
CH322-09K07 3R	21897270	21918270	located_end	21897270
	estimated_end	21918270		
CH322-09K15 3L	6723543	6744543	located_end	6723543
	estimated_end	6744543		
CH322-09K16 3R	5461404	5482404	estimated_end	5461404
	located_end	5482404		
CH322-09K23 X	6118642	6139642	estimated_end	6118642
	located_end	6139642		
CH322-09L02 2L	12631059	12652059	estimated_end	12631059
	located_end	12652059		
CH322-09L03 3R	4046513	4067513	estimated_end	4046513
	located_end	4067513		
CH322-09L09 2L	10896769	10917769	estimated_end	10896769
	located_end	10917769		
CH322-09L16 X	11469010	11490010	located_end	11469010
	estimated_end	11490010		
CH322-09L17 3L	4190386	4211386	estimated_end	4190386
	located_end	4211386		

CH322-09L18 X	13028793	13049793	estimated_end	13028793	
	located_end	13049793			
CH322-09L21 2R	434468	455468	estimated_end	434468	
	located_end	455468			
CH322-09M01 2R	8600797	8621797	estimated_end	8600797	
	located_end	8621797			
CH322-09M05 X	2819507	2840507	estimated_end	2819507	
	located_end	2840507			
CH322-09M09 3R	5495268	5516268	located_end	5495268	
	estimated_end	5516268			
CH322-09M11 3R	9772435	9793435	estimated_end	9772435	
	located_end	9793435			
CH322-09M15 3R	10505167	10526167	located_end	10505167	
	estimated_end	10526167			
CH322-09M23 2R	4467455	4488455	located_end	4467455	
	estimated_end	4488455			
CH322-09N04 3R	13991855	14012855	located_end	13991855	
	estimated_end	14012855			
CH322-09N12 2L	6378808	6399808	estimated_end	6378808	
	located_end	6399808			
CH322-09N16 2R	9085498	9106498	located_end	9085498	
	estimated_end	9106498			
CH322-09N23 2RHet	1681578	1702578	located_end	1681578	
	estimated_end	1702578			
CH322-09O07 2RHet	1941161	1962161	estimated_end	1941161	
	located_end	1962161			
CH322-09O15 3L	11940723	11961723	estimated_end	11940723	
	located_end	11961723			
CH322-09O16 2L	3511121	3532121	located_end	3511121	
	estimated_end	3532121			
CH322-09O18 2L	8081133	8102133	located_end	8081133	
	estimated_end	8102133			
CH322-09P11 X	9393892	9414892	located_end	9393892	
	estimated_end	9414892			
CH322-09P16 3R	14542207	14563207	estimated_end	14542207	
	located_end	14563207			
CH322-09P17 2L	20069799	20090799	estimated_end	20069799	
	located_end	20090799			
CH322-09P19 X	2234225	2255225	located_end	2234225	
	estimated_end	2255225			
CH322-09P20 X	5304198	5325198	located_end	5304198	
	estimated_end	5325198			
CH322-09P21 3L	13250147	13271147	located_end	13250147	
	estimated_end	13271147			
CH322-09P22 3L	20211663	20232663	estimated_end	20211663	
	located_end	20232663			
CH322-09P23 3L	1379590	1400590	estimated_end	1379590	
	located_end	1400590			
CH322-100A03	X	2669820	2690820	estimated_end	2669820
	located_end	2690820			
CH322-100A05	3R	17964418	17985418	located_end	17964418
	estimated_end	17985418			
CH322-100A11	X	329716	350716	located_end	329716
	estimated_end	350716			

CH322-100A13	2L	9539807	9560807	estimated_end	9539807
		located_end	9560807		
CH322-100A23	3R	7233953	7254953	located_end	7233953
		estimated_end	7254953		
CH322-100B12	X	20955653	20976653	located_end	20955653
		estimated_end	20976653		
CH322-100B18	2R	8004257	8025257	located_end	8004257
		estimated_end	8025257		
CH322-100B21	3R	5051878	5072878	estimated_end	5051878
		located_end	5072878		
CH322-100C08	3R	25694133	25715133	located_end	25694133
		estimated_end	25715133		
CH322-100C23	3R	1983353	2004353	located_end	1983353
		estimated_end	2004353		
CH322-100C24	3L	13886016	13907016	estimated_end	13886016
		located_end	13907016		
CH322-100E01	2L	4238877	4259877	located_end	4238877
		estimated_end	4259877		
CH322-100E08	3L	20941667	20962667	located_end	20941667
		estimated_end	20962667		
CH322-100E09	3R	27829169	27850169	estimated_end	27829169
		located_end	27850169		
CH322-100E12	2R	4080473	4101473	located_end	4080473
		estimated_end	4101473		
CH322-100E13	3L	4179357	4200357	estimated_end	4179357
		located_end	4200357		
CH322-100E14	3R	25424824	25445824	estimated_end	25424824
		located_end	25445824		
CH322-100F02	X	21122030	21143030	located_end	21122030
		estimated_end	21143030		
CH322-100F16	X	6718985	6739985	estimated_end	6718985
		located_end	6739985		
CH322-100F17	2R	10112365	10133365	estimated_end	10112365
		located_end	10133365		
CH322-100F24	2R	7796427	7817427	estimated_end	7796427
		located_end	7817427		
CH322-100G01	3L	726480	747480	estimated_end	726480
		located_end	747480		
CH322-100G08	ArmU	8928851	8949851	estimated_end	8928851
		located_end	8949851		
CH322-100G09	3R	11391749	11412749	estimated_end	11391749
		located_end	11412749		
CH322-100G12	2R	13680023	13701023	located_end	13680023
		estimated_end	13701023		
CH322-100G13	3L	6144639	6165639	located_end	6144639
		estimated_end	6165639		
CH322-100G17	ArmU	8386157	8407157	estimated_end	8386157
		located_end	8407157		
CH322-100G19	3L	9823981	9844981	estimated_end	9823981
		located_end	9844981		
CH322-100G22	X	1504408	1525408	located_end	1504408
		estimated_end	1525408		
CH322-100H09	2R	14482559	14503559	estimated_end	14482559
		located_end	14503559		

CH322-100H11	2R	1146876	1167876	estimated_end	1146876
		located_end	1167876		
CH322-100H20	3L	18584738	18605738	estimated_end	18584738
		located_end	18605738		
CH322-100H24	3R	10434527	10455527	located_end	10434527
		estimated_end	10455527		
CH322-100I01	2R	13790181	13811181	located_end	13790181
		estimated_end	13811181		
CH322-100I08	2R	14126918	14147918	located_end	14126918
		estimated_end	14147918		
CH322-100I13	3R	25606983	25627983	estimated_end	25606983
		located_end	25627983		
CH322-100I14	3R	9477988	9498988	estimated_end	9477988
		located_end	9498988		
CH322-100J02	2R	15920756	15941756	estimated_end	15920756
		located_end	15941756		
CH322-100J06	2L	12832110	12853110	estimated_end	12832110
		located_end	12853110		
CH322-100K01	3L	4416080	4437080	estimated_end	4416080
		located_end	4437080		
CH322-100K07	2R	19677248	19698248	located_end	19677248
		estimated_end	19698248		
CH322-100K11	2L	2233796	2254796	estimated_end	2233796
		located_end	2254796		
CH322-100K15	2L	2665870	2686870	estimated_end	2665870
		located_end	2686870		
CH322-100K18	2R	2019322	2040322	estimated_end	2019322
		located_end	2040322		
CH322-100K19	X	14385349	14406349	estimated_end	14385349
		located_end	14406349		
CH322-100K20	2RHet	2965336	2986336	estimated_end	2965336
		located_end	2986336		
CH322-100K24	X	22163541	22184541	estimated_end	22163541
		located_end	22184541		
CH322-100L02	X	21436635	21457635	located_end	21436635
		estimated_end	21457635		
CH322-100L08	3L	17080201	17101201	estimated_end	17080201
		located_end	17101201		
CH322-100L12	2R	11870990	11891990	located_end	11870990
		estimated_end	11891990		
CH322-100L17	2L	7479512	7500512	estimated_end	7479512
		located_end	7500512		
CH322-100M16	2L	4925947	4946947	estimated_end	4925947
		located_end	4946947		
CH322-100N11	X	19049719	19070719	located_end	19049719
		estimated_end	19070719		
CH322-100N14	2R	18240067	18261067	estimated_end	18240067
		located_end	18261067		
CH322-100N17	X	-12056	8944	estimated_end	-12056
		located_end	8944		
CH322-100N24	2R	20247024	20268024	estimated_end	20247024
		located_end	20268024		
CH322-100O14	2L	9291098	9312098	located_end	9291098
		estimated_end	9312098		

CH322-100018	2L	16362419	16383419	located_end	16362419
		estimated_end	16383419		
CH322-100022	ArmU	1839387	1860387	located_end	1839387
		estimated_end	1860387		
CH322-100P02	X	18750617	18771617	located_end	18750617
		estimated_end	18771617		
CH322-100P03	3L	20290944	20311944	estimated_end	20290944
		located_end	20311944		
CH322-100P09	X	21212240	21233240	estimated_end	21212240
		located_end	21233240		
CH322-100P24	2R	16188991	16209991	located_end	16188991
		estimated_end	16209991		
CH322-101A01	2R	7354145	7375145	located_end	7354145
		estimated_end	7375145		
CH322-101A05	3L	8409662	8430662	located_end	8409662
		estimated_end	8430662		
CH322-101A07	3L	20957930	20978930	estimated_end	20957930
		located_end	20978930		
CH322-101A09	3R	20143792	20164792	located_end	20143792
		estimated_end	20164792		
CH322-101A11	3L	8301488	8322488	estimated_end	8301488
		located_end	8322488		
CH322-101A12	X	11920440	11941440	estimated_end	11920440
		located_end	11941440		
CH322-101A13	2L	20514317	20535317	located_end	20514317
		estimated_end	20535317		
CH322-101A14	3L	723293	744293	estimated_end	723293
		located_end	744293		
CH322-101A17	2L	9794638	9815638	estimated_end	9794638
		located_end	9815638		
CH322-101A19	2L	7420367	7441367	located_end	7420367
		estimated_end	7441367		
CH322-101A20	2L	14583979	14604979	located_end	14583979
		estimated_end	14604979		
CH322-101A21	3R	15094360	15115360	located_end	15094360
		estimated_end	15115360		
CH322-101A24	2L	4837367	4858367	located_end	4837367
		estimated_end	4858367		
CH322-101B01	3R	15487625	15508625	located_end	15487625
		estimated_end	15508625		
CH322-101B03	2R	996700	1017700	located_end	996700
		estimated_end	1017700		
CH322-101B10	2R	514676	535676	located_end	514676
		estimated_end	535676		
CH322-101B12	X	2440879	2461879	estimated_end	2440879
		located_end	2461879		
CH322-101B15	3R	446933	467933	located_end	446933
		estimated_end	467933		
CH322-101B19	3LHet	2448395	2469395	estimated_end	2448395
		located_end	2469395		
CH322-101B21	2R	15106991	15127991	estimated_end	15106991
		located_end	15127991		
CH322-101B24	2R	21075512	21096512	estimated_end	21075512
		located_end	21096512		

CH322-101C01	X	16677338	16698338	estimated_end	16677338
		located_end	16698338		
CH322-101C08	3R	2412372	2433372	located_end	2412372
		estimated_end	2433372		
CH322-101C11	2L	10015301	10036301	located_end	10015301
		estimated_end	10036301		
CH322-101C12	2R	14328922	14349922	located_end	14328922
		estimated_end	14349922		
CH322-101C24	2L	8138077	8159077	estimated_end	8138077
		located_end	8159077		
CH322-101D03	2L	6716667	6737667	estimated_end	6716667
		located_end	6737667		
CH322-101D05	2L	5029344	5050344	estimated_end	5029344
		located_end	5050344		
CH322-101D06	3L	9567190	9588190	estimated_end	9567190
		located_end	9588190		
CH322-101D07	3L	16041333	16062333	estimated_end	16041333
		located_end	16062333		
CH322-101D12	3R	7764519	7785519	located_end	7764519
		estimated_end	7785519		
CH322-101D15	3R	23314535	23335535	estimated_end	23314535
		located_end	23335535		
CH322-101D16	2L	16490757	16511757	located_end	16490757
		estimated_end	16511757		
CH322-101D18	2R	21020650	21041650	located_end	21020650
		estimated_end	21041650		
CH322-101D20	3R	1420461	1441461	located_end	1420461
		estimated_end	1441461		
CH322-101D23	2L	15765721	15786721	estimated_end	15765721
		located_end	15786721		
CH322-101E01	3R	27410597	27431597	estimated_end	27410597
		located_end	27431597		
CH322-101E02	3LHet	1703760	1724760	estimated_end	1703760
		located_end	1724760		
CH322-101E07	3L	6713426	6734426	located_end	6713426
		estimated_end	6734426		
CH322-101E08	3L	21613168	21634168	located_end	21613168
		estimated_end	21634168		
CH322-101E11	2L	9703756	9724756	located_end	9703756
		estimated_end	9724756		
CH322-101E12	2L	22696502	22717502	located_end	22696502
		estimated_end	22717502		
CH322-101E19	3LHet	633759	654759	located_end	633759
		estimated_end	654759		
CH322-101E24	X	1717586	1738586	located_end	1717586
		estimated_end	1738586		
CH322-101F01	3R	12459511	12480511	estimated_end	12459511
		located_end	12480511		
CH322-101F03	X	8864338	8885338	located_end	8864338
		estimated_end	8885338		
CH322-101F08	2L	9418811	9439811	located_end	9418811
		estimated_end	9439811		
CH322-101F24	2R	20937452	20958452	located_end	20937452
		estimated_end	20958452		

CH322-101G04	3R	23369990	23390990	estimated_end	23369990
		located_end	23390990		
CH322-101G05	3L	18102321	18123321	estimated_end	18102321
		located_end	18123321		
CH322-101G07	3L	21812222	21833222	located_end	21812222
		estimated_end	21833222		
CH322-101G08	2L	14082699	14103699	located_end	14082699
		estimated_end	14103699		
CH322-101G12	3R	14425148	14446148	located_end	14425148
		estimated_end	14446148		
CH322-101G13	2R	11233400	11254400	estimated_end	11233400
		located_end	11254400		
CH322-101G14	2R	15303265	15324265	located_end	15303265
		estimated_end	15324265		
CH322-101G15	2R	2145571	2166571	located_end	2145571
		estimated_end	2166571		
CH322-101G16	3L	18148174	18169174	located_end	18148174
		estimated_end	18169174		
CH322-101G18	2L	69877 90877	located_end 69877	estimated_end	
		90877			
CH322-101H01	3L	16434093	16455093	estimated_end	16434093
		located_end	16455093		
CH322-101H02	3L	4262289	4283289	estimated_end	4262289
		located_end	4283289		
CH322-101H03	3R	5646576	5667576	located_end	5646576
		estimated_end	5667576		
CH322-101H06	3L	5973245	5994245	located_end	5973245
		estimated_end	5994245		
CH322-101H08	2L	7333720	7354720	located_end	7333720
		estimated_end	7354720		
CH322-101H09	3L	19300777	19321777	estimated_end	19300777
		located_end	19321777		
CH322-101H10	2R	7693374	7714374	estimated_end	7693374
		located_end	7714374		
CH322-101H11	X	22278034	22299034	estimated_end	22278034
		located_end	22299034		
CH322-101H13	3L	15856185	15877185	located_end	15856185
		estimated_end	15877185		
CH322-101H21	2R	9420407	9441407	located_end	9420407
		estimated_end	9441407		
CH322-101H23	3L	13933493	13954493	estimated_end	13933493
		located_end	13954493		
CH322-101H24	3R	11702632	11723632	estimated_end	11702632
		located_end	11723632		
CH322-101I01	2R	9799103	9820103	located_end	9799103
		estimated_end	9820103		
CH322-101I06	X	18246732	18267732	estimated_end	18246732
		located_end	18267732		
CH322-101I09	3R	3809028	3830028	estimated_end	3809028
		located_end	3830028		
CH322-101I11	2L	1174404	1195404	estimated_end	1174404
		located_end	1195404		
CH322-101I13	2R	16874321	16895321	located_end	16874321
		estimated_end	16895321		

CH322-101I16	3L	10686658	10707658	located_end	10686658
		estimated_end	10707658		
CH322-101I21	3R	12644981	12665981	located_end	12644981
		estimated_end	12665981		
CH322-101I23	2R	9078114	9099114	located_end	9078114
		estimated_end	9099114		
CH322-101I24	3R	11050323	11071323	estimated_end	11050323
		located_end	11071323		
CH322-101J06	3R	5373206	5394206	located_end	5373206
		estimated_end	5394206		
CH322-101J08	2R	18147907	18168907	located_end	18147907
		estimated_end	18168907		
CH322-101J12	2R	13454710	13475710	estimated_end	13454710
		located_end	13475710		
CH322-101J16	2L	12918370	12939370	located_end	12918370
		estimated_end	12939370		
CH322-101K06	2L	11965617	11986617	located_end	11965617
		estimated_end	11986617		
CH322-101K07	3R	3826825	3847825	located_end	3826825
		estimated_end	3847825		
CH322-101K11	2L	6523565	6544565	located_end	6523565
		estimated_end	6544565		
CH322-101K12	2R	2937538	2958538	located_end	2937538
		estimated_end	2958538		
CH322-101K15	3L	1688109	1709109	estimated_end	1688109
		located_end	1709109		
CH322-101K23	2L	16126821	16147821	located_end	16126821
		estimated_end	16147821		
CH322-101K24	2L	18131937	18152937	located_end	18131937
		estimated_end	18152937		
CH322-101L01	3R	15607069	15628069	located_end	15607069
		estimated_end	15628069		
CH322-101L06	2R	623843	644843	located_end	623843
		estimated_end	644843		
CH322-101L11	3L	22475256	22496256	estimated_end	22475256
		located_end	22496256		
CH322-101L12	2L	17327969	17348969	estimated_end	17327969
		located_end	17348969		
CH322-101L19	2R	8785572	8806572	estimated_end	8785572
		located_end	8806572		
CH322-101L21	3LHet	797524	818524	located_end	797524
		estimated_end	818524		
CH322-101L23	3L	5520225	5541225	estimated_end	5520225
		located_end	5541225		
CH322-101L24	X	5681163	5702163	located_end	5681163
		estimated_end	5702163		
CH322-101M08	2R	20293967	20314967	estimated_end	20293967
		located_end	20314967		
CH322-101M11	3L	15987798	16008798	estimated_end	15987798
		located_end	16008798		
CH322-101M14	X	13681233	13702233	estimated_end	13681233
		located_end	13702233		
CH322-101M19	2L	315422	336422	estimated_end	315422
		located_end	336422		

CH322-101M23	3R	19182555	19203555	estimated_end	19182555
		located_end	19203555		
CH322-101N01	2R	18235280	18256280	estimated_end	18235280
		located_end	18256280		
CH322-101N03	2L	15793469	15814469	estimated_end	15793469
		located_end	15814469		
CH322-101N06	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-101N07	2L	18438440	18459440	estimated_end	18438440
		located_end	18459440		
CH322-101N10	3L	2469714	2490714	located_end	2469714
		estimated_end	2490714		
CH322-101N18	2R	2952679	2973679	located_end	2952679
		estimated_end	2973679		
CH322-101N19	2L	21165037	21186037	located_end	21165037
		estimated_end	21186037		
CH322-101N20	3R	143313	164313	estimated_end	143313
		located_end	164313		
CH322-101N23	X	1140355	1161355	located_end	1140355
		estimated_end	1161355		
CH322-101N24	2R	3608288	3629288	estimated_end	3608288
		located_end	3629288		
CH322-101O01	2R	4081074	4102074	estimated_end	4081074
		located_end	4102074		
CH322-101O02	3LHet	1004857	1025857	located_end	1004857
		estimated_end	1025857		
CH322-101O03	3L	23080988	23101988	estimated_end	23080988
		located_end	23101988		
CH322-101O04	2L	684972	705972	located_end	684972
		estimated_end	705972		
CH322-101O07	3R	2561811	2582811	estimated_end	2561811
		located_end	2582811		
CH322-101O08	3R	13634113	13655113	located_end	13634113
		estimated_end	13655113		
CH322-101O10	2L	3321798	3342798	estimated_end	3321798
		located_end	3342798		
CH322-101O11	2R	12568488	12589488	located_end	12568488
		estimated_end	12589488		
CH322-101O12	2R	6284587	6305587	located_end	6284587
		estimated_end	6305587		
CH322-101O15	2R	18124206	18145206	located_end	18124206
		estimated_end	18145206		
CH322-101O16	X	524194	545194	located_end	524194
		estimated_end	545194		
CH322-101O18	3RHet	865491	886491	located_end	865491
		estimated_end	886491		
CH322-101O20	3L	7118571	7139571	estimated_end	7118571
		located_end	7139571		
CH322-101O21	2L	8966456	8987456	estimated_end	8966456
		located_end	8987456		
CH322-101O23	3R	5501852	5522852	located_end	5501852
		estimated_end	5522852		
CH322-101O24	3L	683114	704114	located_end	683114
		estimated_end	704114		

CH322-101P01	2R	20210620	20231620	estimated_end	20210620
		located_end	20231620		
CH322-101P02	2R	1616895	1637895	located_end	1616895
		estimated_end	1637895		
CH322-101P03	2R	16467040	16488040	located_end	16467040
		estimated_end	16488040		
CH322-101P05	3L	686856	707856	located_end	686856
		estimated_end	707856		
CH322-101P06	3L	16791189	16812189	estimated_end	16791189
		located_end	16812189		
CH322-101P07	3R	12933839	12954839	located_end	12933839
		estimated_end	12954839		
CH322-101P08	2L	22593357	22614357	located_end	22593357
		estimated_end	22614357		
CH322-101P09	2L	6798513	6819513	located_end	6798513
		estimated_end	6819513		
CH322-101P10	3LHet	1018272	1039272	located_end	1018272
		estimated_end	1039272		
CH322-101P13	3R	10286286	10307286	estimated_end	10286286
		located_end	10307286		
CH322-101P14	X	15581832	15602832	estimated_end	15581832
		located_end	15602832		
CH322-101P16	3LHet	2170183	2191183	estimated_end	2170183
		located_end	2191183		
CH322-101P17	X	4691824	4712824	located_end	4691824
		estimated_end	4712824		
CH322-101P18	3R	2943823	2964823	estimated_end	2943823
		located_end	2964823		
CH322-101P19	3L	15708522	15729522	estimated_end	15708522
		located_end	15729522		
CH322-101P20	3L	9383635	9404635	estimated_end	9383635
		located_end	9404635		
CH322-101P21	2L	7543923	7564923	located_end	7543923
		estimated_end	7564923		
CH322-101P22	2R	18730030	18751030	estimated_end	18730030
		located_end	18751030		
CH322-101P24	3R	14893430	14914430	located_end	14893430
		estimated_end	14914430		
CH322-102A03	3R	20824188	20845188	located_end	20824188
		estimated_end	20845188		
CH322-102A04	2R	10615648	10636648	estimated_end	10615648
		located_end	10636648		
CH322-102A05	2L	2819385	2840385	located_end	2819385
		estimated_end	2840385		
CH322-102A06	3R	6020839	6041839	located_end	6020839
		estimated_end	6041839		
CH322-102A07	3L	2832228	2853228	estimated_end	2832228
		located_end	2853228		
CH322-102A11	X	7099012	7120012	located_end	7099012
		estimated_end	7120012		
CH322-102A13	X	11661983	11682983	estimated_end	11661983
		located_end	11682983		
CH322-102A14	X	7888946	7909946	estimated_end	7888946
		located_end	7909946		

CH322-102A19	3R	7787737	7808737	estimated_end	7787737
		located_end	7808737		
CH322-102A21	X	17227153	17248153	estimated_end	17227153
		located_end	17248153		
CH322-102A23	2L	4970107	4991107	estimated_end	4970107
		located_end	4991107		
CH322-102A24	2L	3059601	3080601	estimated_end	3059601
		located_end	3080601		
CH322-102B01	3L	17912698	17933698	estimated_end	17912698
		located_end	17933698		
CH322-102B02	2R	6434905	6455905	located_end	6434905
		estimated_end	6455905		
CH322-102B13	2L	17720357	17741357	estimated_end	17720357
		located_end	17741357		
CH322-102B15	3L	5139814	5160814	estimated_end	5139814
		located_end	5160814		
CH322-102B21	3L	20151228	20172228	located_end	20151228
		estimated_end	20172228		
CH322-102B23	X	2068641	2089641	estimated_end	2068641
		located_end	2089641		
CH322-102B24	3R	18210779	18231779	located_end	18210779
		estimated_end	18231779		
CH322-102C04	3R	19666824	19687824	estimated_end	19666824
		located_end	19687824		
CH322-102C06	3RHet	2420 23420	located_end 2420	estimated_end	
		23420			
CH322-102C07	3R	25979163	26000163	located_end	25979163
		estimated_end	26000163		
CH322-102C09	3L	9653800	9674800	located_end	9653800
		estimated_end	9674800		
CH322-102C14	X	9639703	9660703	estimated_end	9639703
		located_end	9660703		
CH322-102C23	3RHet	185254	206254	located_end	185254
		estimated_end	206254		
CH322-102C24	2L	17410093	17431093	located_end	17410093
		estimated_end	17431093		
CH322-102D06	3L	4539532	4560532	estimated_end	4539532
		located_end	4560532		
CH322-102D07	2L	11374515	11395515	estimated_end	11374515
		located_end	11395515		
CH322-102D10	3L	4823285	4844285	located_end	4823285
		estimated_end	4844285		
CH322-102D11	2R	18954967	18975967	estimated_end	18954967
		located_end	18975967		
CH322-102E01	3L	12172457	12193457	estimated_end	12172457
		located_end	12193457		
CH322-102E03	3R	23148229	23169229	located_end	23148229
		estimated_end	23169229		
CH322-102E05	3R	20452104	20473104	located_end	20452104
		estimated_end	20473104		
CH322-102E06	2L	21138859	21159859	estimated_end	21138859
		located_end	21159859		
CH322-102E10	X	13253602	13274602	located_end	13253602
		estimated_end	13274602		

CH322-102E11	2R	9549362	9570362	estimated_end	9549362
		located_end	9570362		
CH322-102E12	X	3914111	3935111	estimated_end	3914111
		located_end	3935111		
CH322-102E14	3R	5575620	5596620	located_end	5575620
		estimated_end	5596620		
CH322-102E15	2LHet	157307	178307	estimated_end	157307
		located_end	178307		
CH322-102E21	3R	2588941	2609941	estimated_end	2588941
		located_end	2609941		
CH322-102F02	3RHet	300256	321256	located_end	300256
		estimated_end	321256		
CH322-102F05	2L	15037675	15058675	located_end	15037675
		estimated_end	15058675		
CH322-102F06	2RHet	2628621	2649621	located_end	2628621
		estimated_end	2649621		
CH322-102F11	X	2090359	2111359	located_end	2090359
		estimated_end	2111359		
CH322-102F13	X	12318623	12339623	located_end	12318623
		estimated_end	12339623		
CH322-102F15	3LHet	2460676	2481676	estimated_end	2460676
		located_end	2481676		
CH322-102F16	3RHet	2047479	2068479	located_end	2047479
		estimated_end	2068479		
CH322-102F19	2L	2111805	2132805	located_end	2111805
		estimated_end	2132805		
CH322-102G05	3R	12896301	12917301	estimated_end	12896301
		located_end	12917301		
CH322-102G06	X	18640347	18661347	estimated_end	18640347
		located_end	18661347		
CH322-102G08	2L	22504721	22525721	estimated_end	22504721
		located_end	22525721		
CH322-102G13	X	15053002	15074002	estimated_end	15053002
		located_end	15074002		
CH322-102G16	3R	22797090	22818090	located_end	22797090
		estimated_end	22818090		
CH322-102G19	X	11670647	11691647	estimated_end	11670647
		located_end	11691647		
CH322-102G21	2L	2028338	2049338	located_end	2028338
		estimated_end	2049338		
CH322-102G23	2R	15286995	15307995	estimated_end	15286995
		located_end	15307995		
CH322-102H04	3R	3596883	3617883	estimated_end	3596883
		located_end	3617883		
CH322-102H07	X	421660	442660	located_end	421660
		estimated_end	442660		
CH322-102H08	2L	3652353	3673353	estimated_end	3652353
		located_end	3673353		
CH322-102H11	2L	2571657	2592657	estimated_end	2571657
		located_end	2592657		
CH322-102H13	3L	15327620	15348620	estimated_end	15327620
		located_end	15348620		
CH322-102I08	3L	11301116	11322116	located_end	11301116
		estimated_end	11322116		

CH322-102I10	3R	25900482	25921482	estimated_end	25900482
		located_end	25921482		
CH322-102I12	2R	1683502	1704502	estimated_end	1683502
		located_end	1704502		
CH322-102I13	2RHet	798896	819896	located_end	798896
		estimated_end	819896		
CH322-102I15	X	4187896	4208896	located_end	4187896
		estimated_end	4208896		
CH322-102I16	2L	169263	190263	estimated_end	169263
		located_end	190263		
CH322-102I17	X	885208	906208	located_end	885208
		estimated_end	906208		
CH322-102I24	3L	17613920	17634920	estimated_end	17613920
		located_end	17634920		
CH322-102J03	3R	26457224	26478224	estimated_end	26457224
		located_end	26478224		
CH322-102J04	2L	18840724	18861724	estimated_end	18840724
		located_end	18861724		
CH322-102J06	2L	5919452	5940452	located_end	5919452
		estimated_end	5940452		
CH322-102J10	2R	16926681	16947681	estimated_end	16926681
		located_end	16947681		
CH322-102J14	ArmU	6836230	6857230	located_end	6836230
		estimated_end	6857230		
CH322-102J15	2L	21145025	21166025	estimated_end	21145025
		located_end	21166025		
CH322-102K03	X	12257734	12278734	located_end	12257734
		estimated_end	12278734		
CH322-102K07	4	1113546	1134546	estimated_end	1113546
		located_end	1134546		
CH322-102K12	X	17607507	17628507	estimated_end	17607507
		located_end	17628507		
CH322-102K17	X	9777009	9798009	located_end	9777009
		estimated_end	9798009		
CH322-102K24	3L	18815918	18836918	estimated_end	18815918
		located_end	18836918		
CH322-102L03	2L	17414685	17435685	located_end	17414685
		estimated_end	17435685		
CH322-102L04	3R	18342121	18363121	estimated_end	18342121
		located_end	18363121		
CH322-102L08	3R	24643768	24664768	estimated_end	24643768
		located_end	24664768		
CH322-102L10	2L	18151567	18172567	estimated_end	18151567
		located_end	18172567		
CH322-102L14	3L	18717406	18738406	estimated_end	18717406
		located_end	18738406		
CH322-102L21	2L	8797060	8818060	estimated_end	8797060
		located_end	8818060		
CH322-102L23	3R	11024972	11045972	located_end	11024972
		estimated_end	11045972		
CH322-102M07	X	10277215	10298215	estimated_end	10277215
		located_end	10298215		
CH322-102M08	2L	5435411	5456411	estimated_end	5435411
		located_end	5456411		

CH322-102M10	3R	26578226	26599226	located_end	26578226
		estimated_end	26599226		
CH322-102M11	3R	6803983	6824983	estimated_end	6803983
		located_end	6824983		
CH322-102M14	2R	4931807	4952807	estimated_end	4931807
		located_end	4952807		
CH322-102M17	3L	8985569	9006569	located_end	8985569
		estimated_end	9006569		
CH322-102M21	X	13638416	13659416	located_end	13638416
		estimated_end	13659416		
CH322-102M22	3L	6478871	6499871	estimated_end	6478871
		located_end	6499871		
CH322-102N01	3R	8052141	8073141	estimated_end	8052141
		located_end	8073141		
CH322-102N02	2R	17507729	17528729	estimated_end	17507729
		located_end	17528729		
CH322-102N07	2R	3445900	3466900	located_end	3445900
		estimated_end	3466900		
CH322-102N14	2R	12731681	12752681	located_end	12731681
		estimated_end	12752681		
CH322-102N23	3R	1058838	1079838	estimated_end	1058838
		located_end	1079838		
CH322-102O01	2R	3452969	3473969	located_end	3452969
		estimated_end	3473969		
CH322-102O03	X	4894128	4915128	located_end	4894128
		estimated_end	4915128		
CH322-102O12	3R	27352250	27373250	estimated_end	27352250
		located_end	27373250		
CH322-102O13	2R	10237181	10258181	estimated_end	10237181
		located_end	10258181		
CH322-102O16	2RHet	1899419	1920419	estimated_end	1899419
		located_end	1920419		
CH322-102O17	3R	22496432	22517432	estimated_end	22496432
		located_end	22517432		
CH322-102O20	X	9654536	9675536	located_end	9654536
		estimated_end	9675536		
CH322-102P02	3R	2697997	2718997	located_end	2697997
		estimated_end	2718997		
CH322-102P04	X	6904605	6925605	located_end	6904605
		estimated_end	6925605		
CH322-102P05	3L	392073	413073	located_end	392073
		estimated_end	413073		
CH322-102P07	3L	7331507	7352507	estimated_end	7331507
		located_end	7352507		
CH322-102P14	3L	17451840	17472840	estimated_end	17451840
		located_end	17472840		
CH322-102P20	2L	2686402	2707402	estimated_end	2686402
		located_end	2707402		
CH322-102P21	X	16868721	16889721	located_end	16868721
		estimated_end	16889721		
CH322-102P24	3R	5754380	5775380	located_end	5754380
		estimated_end	5775380		
CH322-103A01	X	5945992	5966992	estimated_end	5945992
		located_end	5966992		

CH322-103A02	X	5394296	5415296	estimated_end	5394296
		located_end	5415296		
CH322-103A03	2L	10469743	10490743	estimated_end	10469743
		located_end	10490743		
CH322-103A05	X	17814894	17835894	located_end	17814894
		estimated_end	17835894		
CH322-103A06	2R	428554	449554	estimated_end	428554
		located_end	449554		
CH322-103A07	3L	3322385	3343385	estimated_end	3322385
		located_end	3343385		
CH322-103A09	3R	19006893	19027893	estimated_end	19006893
		located_end	19027893		
CH322-103A10	3L	16465317	16486317	located_end	16465317
		estimated_end	16486317		
CH322-103A11	2L	11813970	11834970	estimated_end	11813970
		located_end	11834970		
CH322-103A12	3R	27182773	27203773	estimated_end	27182773
		located_end	27203773		
CH322-103A13	X	19676841	19697841	located_end	19676841
		estimated_end	19697841		
CH322-103A15	3R	24727414	24748414	located_end	24727414
		estimated_end	24748414		
CH322-103A18	2L	5917060	5938060	located_end	5917060
		estimated_end	5938060		
CH322-103A19	2R	6001932	6022932	located_end	6001932
		estimated_end	6022932		
CH322-103A21	3L	16359560	16380560	estimated_end	16359560
		located_end	16380560		
CH322-103A23	3L	12717514	12738514	estimated_end	12717514
		located_end	12738514		
CH322-103B01	3R	10794679	10815679	located_end	10794679
		estimated_end	10815679		
CH322-103B05	3R	22247400	22268400	located_end	22247400
		estimated_end	22268400		
CH322-103B11	3R	12211026	12232026	located_end	12211026
		estimated_end	12232026		
CH322-103B12	3R	613822	634822	located_end	613822
		estimated_end	634822		
CH322-103C01	2R	2393311	2414311	estimated_end	2393311
		located_end	2414311		
CH322-103C02	ArmU	8139869	8160869	located_end	8139869
		estimated_end	8160869		
CH322-103C10	2R	19930691	19951691	located_end	19930691
		estimated_end	19951691		
CH322-103C11	2R	1727228	1748228	located_end	1727228
		estimated_end	1748228		
CH322-103C17	3R	22907525	22928525	estimated_end	22907525
		located_end	22928525		
CH322-103C19	X	16111094	16132094	located_end	16111094
		estimated_end	16132094		
CH322-103C20	3L	14946972	14967972	estimated_end	14946972
		located_end	14967972		
CH322-103C23	X	12311122	12332122	estimated_end	12311122
		located_end	12332122		

CH322-103D01	3L	9036431	9057431	estimated_end	9036431
		located_end	9057431		
CH322-103D07	2R	14482126	14503126	estimated_end	14482126
		located_end	14503126		
CH322-103D09	2L	6984852	7005852	located_end	6984852
		estimated_end	7005852		
CH322-103D17	3R	18532238	18553238	estimated_end	18532238
		located_end	18553238		
CH322-103D21	3R	2278418	2299418	located_end	2278418
		estimated_end	2299418		
CH322-103E01	X	15535352	15556352	located_end	15535352
		estimated_end	15556352		
CH322-103E07	3L	21497657	21518657	estimated_end	21497657
		located_end	21518657		
CH322-103E09	2R	15710216	15731216	estimated_end	15710216
		located_end	15731216		
CH322-103E13	2R	4802628	4823628	located_end	4802628
		estimated_end	4823628		
CH322-103E15	3L	17419723	17440723	estimated_end	17419723
		located_end	17440723		
CH322-103E16	X	21073975	21094975	located_end	21073975
		estimated_end	21094975		
CH322-103E19	3R	24955151	24976151	estimated_end	24955151
		located_end	24976151		
CH322-103E24	2L	9748350	9769350	located_end	9748350
		estimated_end	9769350		
CH322-103F01	3L	406567	427567	estimated_end	406567
		located_end	427567		
CH322-103F05	2R	411347	432347	estimated_end	411347
		located_end	432347		
CH322-103F08	3L	11663117	11684117	located_end	11663117
		estimated_end	11684117		
CH322-103F11	2R	14876874	14897874	located_end	14876874
		estimated_end	14897874		
CH322-103F12	2L	20311001	20332001	located_end	20311001
		estimated_end	20332001		
CH322-103F13	X	3774832	3795832	estimated_end	3774832
		located_end	3795832		
CH322-103F15	3L	13674021	13695021	located_end	13674021
		estimated_end	13695021		
CH322-103F24	2L	10930667	10951667	located_end	10930667
		estimated_end	10951667		
CH322-103G01	3L	22843106	22864106	located_end	22843106
		estimated_end	22864106		
CH322-103G05	X	8513627	8534627	located_end	8513627
		estimated_end	8534627		
CH322-103G09	X	11238098	11259098	located_end	11238098
		estimated_end	11259098		
CH322-103G10	3R	19806428	19827428	estimated_end	19806428
		located_end	19827428		
CH322-103G12	2L	1253060	1274060	located_end	1253060
		estimated_end	1274060		
CH322-103G13	2R	11694165	11715165	located_end	11694165
		estimated_end	11715165		

CH322-103G14	X	6044563	6065563	located_end	6044563
		estimated_end	6065563		
CH322-103G15	ArmU	5698828	5719828	located_end	5698828
		estimated_end	5719828		
CH322-103G16	3R	22777960	22798960	estimated_end	22777960
		located_end	22798960		
CH322-103G18	2L	7933150	7954150	located_end	7933150
		estimated_end	7954150		
CH322-103G19	2L	22941231	22962231	located_end	22941231
		estimated_end	22962231		
CH322-103G24	3LHet	1624205	1645205	located_end	1624205
		estimated_end	1645205		
CH322-103H15	3LHet	2469843	2490843	located_end	2469843
		estimated_end	2490843		
CH322-103H24	2R	1187056	1208056	estimated_end	1187056
		located_end	1208056		
CH322-103I01	X	20533680	20554680	estimated_end	20533680
		located_end	20554680		
CH322-103I11	X	16573793	16594793	estimated_end	16573793
		located_end	16594793		
CH322-103I16	3R	16757958	16778958	located_end	16757958
		estimated_end	16778958		
CH322-103I20	2R	14217583	14238583	located_end	14217583
		estimated_end	14238583		
CH322-103I21	2R	11732286	11753286	located_end	11732286
		estimated_end	11753286		
CH322-103I23	2L	1015385	1036385	located_end	1015385
		estimated_end	1036385		
CH322-103J01	2R	3445087	3466087	estimated_end	3445087
		located_end	3466087		
CH322-103J12	X	12332426	12353426	located_end	12332426
		estimated_end	12353426		
CH322-103K02	2R	9760223	9781223	located_end	9760223
		estimated_end	9781223		
CH322-103K04	X	635848	656848	estimated_end	635848
		located_end	656848		
CH322-103K08	3R	15311421	15332421	estimated_end	15311421
		located_end	15332421		
CH322-103K11	2R	2193997	2214997	located_end	2193997
		estimated_end	2214997		
CH322-103K12	X	12489523	12510523	estimated_end	12489523
		located_end	12510523		
CH322-103K14	2R	15192392	15213392	estimated_end	15192392
		located_end	15213392		
CH322-103K18	ArmU	7981415	8002415	located_end	7981415
		estimated_end	8002415		
CH322-103K20	X	15598377	15619377	located_end	15598377
		estimated_end	15619377		
CH322-103K24	3L	11247589	11268589	located_end	11247589
		estimated_end	11268589		
CH322-103L01	3L	3194546	3215546	estimated_end	3194546
		located_end	3215546		
CH322-103L05	ArmU	8004843	8025843	located_end	8004843
		estimated_end	8025843		

CH322-103L07	2R	21090666	21111666	located_end	21090666
		estimated_end	21111666		
CH322-103L09	2L	5842382	5863382	estimated_end	5842382
		located_end	5863382		
CH322-103L12	X	15829654	15850654	located_end	15829654
		estimated_end	15850654		
CH322-103L15	X	1132360	1153360	located_end	1132360
		estimated_end	1153360		
CH322-103L19	3L	13856212	13877212	estimated_end	13856212
		located_end	13877212		
CH322-103M01	2R	19966478	19987478	estimated_end	19966478
		located_end	19987478		
CH322-103M11	3R	12102458	12123458	estimated_end	12102458
		located_end	12123458		
CH322-103M17	2R	6040381	6061381	located_end	6040381
		estimated_end	6061381		
CH322-103M19	2R	11916065	11937065	estimated_end	11916065
		located_end	11937065		
CH322-103M22	X	20689643	20710643	located_end	20689643
		estimated_end	20710643		
CH322-103M23	2R	17207608	17228608	estimated_end	17207608
		located_end	17228608		
CH322-103M24	2L	20688398	20709398	estimated_end	20688398
		located_end	20709398		
CH322-103N03	2R	3186273	3207273	estimated_end	3186273
		located_end	3207273		
CH322-103N07	3R	7410737	7431737	estimated_end	7410737
		located_end	7431737		
CH322-103N11	X	22240391	22261391	estimated_end	22240391
		located_end	22261391		
CH322-103N15	2L	3375222	3396222	located_end	3375222
		estimated_end	3396222		
CH322-103N16	2R	20414292	20435292	located_end	20414292
		estimated_end	20435292		
CH322-103N17	2L	4888690	4909690	estimated_end	4888690
		located_end	4909690		
CH322-103N19	3L	16792553	16813553	located_end	16792553
		estimated_end	16813553		
CH322-103O01	3L	16521651	16542651	located_end	16521651
		estimated_end	16542651		
CH322-103O02	2L	22505211	22526211	estimated_end	22505211
		located_end	22526211		
CH322-103O10	3L	6693712	6714712	located_end	6693712
		estimated_end	6714712		
CH322-103O13	3R	10528076	10549076	estimated_end	10528076
		located_end	10549076		
CH322-103O15	2L	6499551	6520551	located_end	6499551
		estimated_end	6520551		
CH322-103O17	3R	5705035	5726035	estimated_end	5705035
		located_end	5726035		
CH322-103O19	3L	14547933	14568933	located_end	14547933
		estimated_end	14568933		
CH322-103O24	3R	20327371	20348371	located_end	20327371
		estimated_end	20348371		

CH322-103P01	2R	16365467	16386467	located_end	16365467
		estimated_end	16386467		
CH322-103P02	3L	21461870	21482870	located_end	21461870
		estimated_end	21482870		
CH322-103P05	2L	1949907	1970907	located_end	1949907
		estimated_end	1970907		
CH322-103P07	3R	7441891	7462891	located_end	7441891
		estimated_end	7462891		
CH322-103P09	2R	1877155	1898155	estimated_end	1877155
		located_end	1898155		
CH322-103P11	2R	4534953	4555953	located_end	4534953
		estimated_end	4555953		
CH322-103P12	ArmU	8242716	8263716	estimated_end	8242716
		located_end	8263716		
CH322-103P13	2L	17401862	17422862	estimated_end	17401862
		located_end	17422862		
CH322-103P15	2L	6497296	6518296	estimated_end	6497296
		located_end	6518296		
CH322-103P17	X	7957934	7978934	located_end	7957934
		estimated_end	7978934		
CH322-103P19	3R	10134975	10155975	estimated_end	10134975
		located_end	10155975		
CH322-103P21	3L	13321099	13342099	located_end	13321099
		estimated_end	13342099		
CH322-103P23	2R	1159068	1180068	located_end	1159068
		estimated_end	1180068		
CH322-104A01	2L	916827	937827	located_end	916827
		estimated_end	937827		
CH322-104B05	X	19529744	19550744	estimated_end	19529744
		located_end	19550744		
CH322-104B08	2R	1558727	1579727	located_end	1558727
		estimated_end	1579727		
CH322-104B09	3L	18776148	18797148	estimated_end	18776148
		located_end	18797148		
CH322-104B10	4	524466	545466	estimated_end	524466
		located_end	545466		
CH322-104B24	3L	18994499	19015499	estimated_end	18994499
		located_end	19015499		
CH322-104C08	2R	19469660	19490660	located_end	19469660
		estimated_end	19490660		
CH322-104C09	2L	16036588	16057588	located_end	16036588
		estimated_end	16057588		
CH322-104C18	3R	1604888	1625888	estimated_end	1604888
		located_end	1625888		
CH322-104C20	2L	12451669	12472669	estimated_end	12451669
		located_end	12472669		
CH322-104D05	3L	20539544	20560544	estimated_end	20539544
		located_end	20560544		
CH322-104D09	X	3357304	3378304	estimated_end	3357304
		located_end	3378304		
CH322-104D10	2L	6988853	7009853	estimated_end	6988853
		located_end	7009853		
CH322-104D14	X	16414554	16435554	estimated_end	16414554
		located_end	16435554		

CH322-104E08	2R	7747271	7768271	located_end	7747271
		estimated_end	7768271		
CH322-104E10	3R	9491617	9512617	located_end	9491617
		estimated_end	9512617		
CH322-104E12	3R	22135447	22156447	estimated_end	22135447
		located_end	22156447		
CH322-104E16	X	1553607	1574607	estimated_end	1553607
		located_end	1574607		
CH322-104E21	2RHet	3161151	3182151	estimated_end	3161151
		located_end	3182151		
CH322-104F05	2L	6767824	6788824	estimated_end	6767824
		located_end	6788824		
CH322-104F06	ArmU	8322194	8343194	estimated_end	8322194
		located_end	8343194		
CH322-104F07	X	9040971	9061971	estimated_end	9040971
		located_end	9061971		
CH322-104F09	2L	16717812	16738812	located_end	16717812
		estimated_end	16738812		
CH322-104F13	2R	8056772	8077772	estimated_end	8056772
		located_end	8077772		
CH322-104F14	3L	21483475	21504475	estimated_end	21483475
		located_end	21504475		
CH322-104F15	3R	12107537	12128537	located_end	12107537
		estimated_end	12128537		
CH322-104F17	ArmU	6584781	6605781	estimated_end	6584781
		located_end	6605781		
CH322-104F19	2R	4928390	4949390	estimated_end	4928390
		located_end	4949390		
CH322-104G05	ArmU	1089568	1110568	located_end	1089568
		estimated_end	1110568		
CH322-104G07	3R	17420446	17441446	estimated_end	17420446
		located_end	17441446		
CH322-104G15	2L	11996033	12017033	estimated_end	11996033
		located_end	12017033		
CH322-104G16	X	818661	839661	located_end	818661
		estimated_end	839661		
CH322-104G18	3L	11843247	11864247	estimated_end	11843247
		located_end	11864247		
CH322-104G19	3L	21853927	21874927	located_end	21853927
		estimated_end	21874927		
CH322-104G20	3R	25089115	25110115	located_end	25089115
		estimated_end	25110115		
CH322-104G23	2R	13956920	13977920	estimated_end	13956920
		located_end	13977920		
CH322-104G24	2R	8872443	8893443	estimated_end	8872443
		located_end	8893443		
CH322-104H07	X	9899039	9920039	estimated_end	9899039
		located_end	9920039		
CH322-104H20	2L	7395924	7416924	located_end	7395924
		estimated_end	7416924		
CH322-104H24	3R	6045736	6066736	located_end	6045736
		estimated_end	6066736		
CH322-104I04	X	3248040	3269040	located_end	3248040
		estimated_end	3269040		

CH322-104I05	3L	17238957	17259957	located_end	17238957
		estimated_end	17259957		
CH322-104I07	X	284355	305355	estimated_end	284355
		located_end	305355		
CH322-104I09	3L	5627769	5648769	estimated_end	5627769
		located_end	5648769		
CH322-104I10	3L	12986300	13007300	located_end	12986300
		estimated_end	13007300		
CH322-104I11	3L	11697257	11718257	located_end	11697257
		estimated_end	11718257		
CH322-104I14	X	16378780	16399780	estimated_end	16378780
		located_end	16399780		
CH322-104I17	3L	15081600	15102600	located_end	15081600
		estimated_end	15102600		
CH322-104I20	4	40594 61594	located_end 40594	estimated_end	61594
CH322-104I24	3R	4530079	4551079	estimated_end	4530079
		located_end	4551079		
CH322-104J05	2L	2869792	2890792	estimated_end	2869792
		located_end	2890792		
CH322-104J08	2R	21139915	21160915	located_end	21139915
		estimated_end	21160915		
CH322-104J10	2R	589121	610121	estimated_end	589121
		located_end	610121		
CH322-104J11	2R	10602328	10623328	estimated_end	10602328
		located_end	10623328		
CH322-104K08	3Rhet	2483089	2504089	estimated_end	2483089
		located_end	2504089		
CH322-104K10	3R	1314682	1335682	located_end	1314682
		estimated_end	1335682		
CH322-104K12	3L	22559131	22580131	located_end	22559131
		estimated_end	22580131		
CH322-104K16	2L	15584873	15605873	estimated_end	15584873
		located_end	15605873		
CH322-104L02	X	17569367	17590367	estimated_end	17569367
		located_end	17590367		
CH322-104L11	3R	19697175	19718175	located_end	19697175
		estimated_end	19718175		
CH322-104L18	X	7942133	7963133	located_end	7942133
		estimated_end	7963133		
CH322-104M07	3L	5103093	5124093	estimated_end	5103093
		located_end	5124093		
CH322-104M14	2L	10703796	10724796	located_end	10703796
		estimated_end	10724796		
CH322-104M24	3L	3193779	3214779	estimated_end	3193779
		located_end	3214779		
CH322-104N08	3L	19103156	19124156	estimated_end	19103156
		located_end	19124156		
CH322-104N24	2L	20237858	20258858	located_end	20237858
		estimated_end	20258858		
CH322-104O15	ArmU	3729627	3750627	located_end	3729627
		estimated_end	3750627		
CH322-104O24	X	6719136	6740136	located_end	6719136
		estimated_end	6740136		

CH322-104P21	3R	6652934	6673934	located_end	6652934
		estimated_end	6673934		
CH322-104P22	2RHet	2904823	2925823	located_end	2904823
		estimated_end	2925823		
CH322-104P23	2L	5143761	5164761	estimated_end	5143761
		located_end	5164761		
CH322-104P24	3L	20996869	21017869	estimated_end	20996869
		located_end	21017869		
CH322-105A01	3R	8109433	8130433	located_end	8109433
		estimated_end	8130433		
CH322-105A02	2L	255799	276799	estimated_end	255799
		located_end	276799		
CH322-105A03	2L	6579271	6600271	located_end	6579271
		estimated_end	6600271		
CH322-105A04	3R	14230075	14251075	estimated_end	14230075
		located_end	14251075		
CH322-105A05	3L	11877142	11898142	estimated_end	11877142
		located_end	11898142		
CH322-105A06	3L	7138155	7159155	located_end	7138155
		estimated_end	7159155		
CH322-105A07	3R	23681763	23702763	located_end	23681763
		estimated_end	23702763		
CH322-105A08	3R	7703514	7724514	estimated_end	7703514
		located_end	7724514		
CH322-105A10	2L	11415436	11436436	estimated_end	11415436
		located_end	11436436		
CH322-105A11	2R	18092967	18113967	estimated_end	18092967
		located_end	18113967		
CH322-105A12	3R	19161926	19182926	estimated_end	19161926
		located_end	19182926		
CH322-105A13	2L	10697398	10718398	estimated_end	10697398
		located_end	10718398		
CH322-105A14	3R	10831643	10852643	estimated_end	10831643
		located_end	10852643		
CH322-105A15	3R	1013601	1034601	estimated_end	1013601
		located_end	1034601		
CH322-105A16	2L	12668950	12689950	estimated_end	12668950
		located_end	12689950		
CH322-105A17	3R	4691005	4712005	located_end	4691005
		estimated_end	4712005		
CH322-105A18	2R	11030492	11051492	located_end	11030492
		estimated_end	11051492		
CH322-105A20	2L	2989830	3010830	estimated_end	2989830
		located_end	3010830		
CH322-105A22	2R	15744070	15765070	estimated_end	15744070
		located_end	15765070		
CH322-105A24	3L	2115061	2136061	located_end	2115061
		estimated_end	2136061		
CH322-105B01	3R	6531069	6552069	estimated_end	6531069
		located_end	6552069		
CH322-105B03	X	2666200	2687200	estimated_end	2666200
		located_end	2687200		
CH322-105B04	X	4642226	4663226	estimated_end	4642226
		located_end	4663226		

CH322-105B05	3L	4475102	4496102	estimated_end	4475102
		located_end	4496102		
CH322-105B06	2L	20544153	20565153	estimated_end	20544153
		located_end	20565153		
CH322-105B08	3R	4570401	4591401	estimated_end	4570401
		located_end	4591401		
CH322-105B09	3L	21664291	21685291	located_end	21664291
		estimated_end	21685291		
CH322-105B11	2R	3281438	3302438	located_end	3281438
		estimated_end	3302438		
CH322-105B12	2L	18050298	18071298	located_end	18050298
		estimated_end	18071298		
CH322-105B13	X	17979707	18000707	estimated_end	17979707
		located_end	18000707		
CH322-105B18	2L	15916842	15937842	estimated_end	15916842
		located_end	15937842		
CH322-105B19	3R	25724830	25745830	estimated_end	25724830
		located_end	25745830		
CH322-105B20	2R	9207839	9228839	estimated_end	9207839
		located_end	9228839		
CH322-105B21	3L	652217	673217	located_end	652217
		estimated_end	673217		
CH322-105B23	3L	750469	771469	located_end	750469
		estimated_end	771469		
CH322-105B24	3L	21803168	21824168	located_end	21803168
		estimated_end	21824168		
CH322-105C01	2L	15634098	15655098	located_end	15634098
		estimated_end	15655098		
CH322-105C02	X	354130	375130	estimated_end	354130
		located_end	375130		
CH322-105C03	3L	15805074	15826074	estimated_end	15805074
		located_end	15826074		
CH322-105C04	3R	12211026	12232026	located_end	12211026
		estimated_end	12232026		
CH322-105C05	X	364906	385906	located_end	364906
		estimated_end	385906		
CH322-105C06	2R	12484037	12505037	located_end	12484037
		estimated_end	12505037		
CH322-105C08	2L	2432484	2453484	located_end	2432484
		estimated_end	2453484		
CH322-105C09	3L	20287633	20308633	estimated_end	20287633
		located_end	20308633		
CH322-105C10	2L	4963313	4984313	located_end	4963313
		estimated_end	4984313		
CH322-105C12	2R	5983544	6004544	estimated_end	5983544
		located_end	6004544		
CH322-105C13	3L	19781376	19802376	estimated_end	19781376
		located_end	19802376		
CH322-105C14	3R	15604986	15625986	estimated_end	15604986
		located_end	15625986		
CH322-105C15	X	10182039	10203039	located_end	10182039
		estimated_end	10203039		
CH322-105C16	3L	10311709	10332709	located_end	10311709
		estimated_end	10332709		

CH322-105C17	2R	8474788	8495788	located_end	8474788
		estimated_end	8495788		
CH322-105C18	2L	13804924	13825924	estimated_end	13804924
		located_end	13825924		
CH322-105C19	2R	17420439	17441439	estimated_end	17420439
		located_end	17441439		
CH322-105C20	3R	7050923	7071923	estimated_end	7050923
		located_end	7071923		
CH322-105C21	3L	16622661	16643661	estimated_end	16622661
		located_end	16643661		
CH322-105C22	2R	6909792	6930792	estimated_end	6909792
		located_end	6930792		
CH322-105C23	2R	6708952	6729952	estimated_end	6708952
		located_end	6729952		
CH322-105C24	2R	4800484	4821484	located_end	4800484
		estimated_end	4821484		
CH322-105D01	2R	490708	511708	located_end	490708
		estimated_end	511708		
CH322-105D02	3L	15861795	15882795	located_end	15861795
		estimated_end	15882795		
CH322-105D03	2L	9579986	9600986	located_end	9579986
		estimated_end	9600986		
CH322-105D04	3R	16911874	16932874	located_end	16911874
		estimated_end	16932874		
CH322-105D05	2R	10242584	10263584	located_end	10242584
		estimated_end	10263584		
CH322-105D06	3L	13984207	14005207	located_end	13984207
		estimated_end	14005207		
CH322-105D07	3R	4065025	4086025	located_end	4065025
		estimated_end	4086025		
CH322-105D08	3L	8807397	8828397	located_end	8807397
		estimated_end	8828397		
CH322-105D09	2R	164196	185196	located_end	164196
		estimated_end	185196		
CH322-105D10	2R	9372949	9393949	located_end	9372949
		estimated_end	9393949		
CH322-105D11	2L	8256266	8277266	estimated_end	8256266
		located_end	8277266		
CH322-105D12	3L	3809147	3830147	estimated_end	3809147
		located_end	3830147		
CH322-105D13	2L	9127520	9148520	located_end	9127520
		estimated_end	9148520		
CH322-105D15	3R	14978216	14999216	located_end	14978216
		estimated_end	14999216		
CH322-105D16	3R	24442010	24463010	located_end	24442010
		estimated_end	24463010		
CH322-105D17	3R	11059829	11080829	located_end	11059829
		estimated_end	11080829		
CH322-105D18	3L	22695923	22716923	located_end	22695923
		estimated_end	22716923		
CH322-105D20	2R	3454047	3475047	estimated_end	3454047
		located_end	3475047		
CH322-105D21	2R	18892828	18913828	estimated_end	18892828
		located_end	18913828		

CH322-105D23	2R	2274231	2295231	located_end	2274231
		estimated_end	2295231		
CH322-105D24	2R	13365309	13386309	estimated_end	13365309
		located_end	13386309		
CH322-105E01	X	7948012	7969012	located_end	7948012
		estimated_end	7969012		
CH322-105E03	2L	6497296	6518296	estimated_end	6497296
		located_end	6518296		
CH322-105E04	3L	815751	836751	located_end	815751
		estimated_end	836751		
CH322-105E05	3R	1689788	1710788	estimated_end	1689788
		located_end	1710788		
CH322-105E06	2L	8275069	8296069	located_end	8275069
		estimated_end	8296069		
CH322-105E07	X	7470201	7491201	located_end	7470201
		estimated_end	7491201		
CH322-105E08	2R	12661464	12682464	located_end	12661464
		estimated_end	12682464		
CH322-105E09	2R	3889881	3910881	located_end	3889881
		estimated_end	3910881		
CH322-105E12	X	945805	966805	located_end	945805
		estimated_end	966805		
CH322-105E13	3L	20564751	20585751	estimated_end	20564751
		located_end	20585751		
CH322-105E14	2R	8410198	8431198	located_end	8410198
		estimated_end	8431198		
CH322-105E16	2R	3068876	3089876	estimated_end	3068876
		located_end	3089876		
CH322-105E17	3L	21857957	21878957	located_end	21857957
		estimated_end	21878957		
CH322-105E18	2R	20309291	20330291	located_end	20309291
		estimated_end	20330291		
CH322-105E19	3L	5596836	5617836	located_end	5596836
		estimated_end	5617836		
CH322-105E20	2L	4466572	4487572	estimated_end	4466572
		located_end	4487572		
CH322-105E23	3R	26051843	26072843	located_end	26051843
		estimated_end	26072843		
CH322-105E24	2L	18935770	18956770	estimated_end	18935770
		located_end	18956770		
CH322-105F02	2R	8241164	8262164	located_end	8241164
		estimated_end	8262164		
CH322-105F03	2R	1943290	1964290	located_end	1943290
		estimated_end	1964290		
CH322-105F06	X	13617086	13638086	located_end	13617086
		estimated_end	13638086		
CH322-105F07	3R	1545745	1566745	estimated_end	1545745
		located_end	1566745		
CH322-105F08	3L	8688363	8709363	estimated_end	8688363
		located_end	8709363		
CH322-105F09	4	731124	752124	estimated_end	731124
		located_end	752124		
CH322-105F11	3R	2936592	2957592	estimated_end	2936592
		located_end	2957592		

CH322-105F12	3R	11382702	11403702	estimated_end	11382702
		located_end	11403702		
CH322-105F13	3R	26551922	26572922	estimated_end	26551922
		located_end	26572922		
CH322-105F14	2L	4604665	4625665	estimated_end	4604665
		located_end	4625665		
CH322-105F15	2L	13306905	13327905	estimated_end	13306905
		located_end	13327905		
CH322-105F16	X	9638694	9659694	located_end	9638694
		estimated_end	9659694		
CH322-105F17	3L	3122574	3143574	located_end	3122574
		estimated_end	3143574		
CH322-105F18	3L	13644577	13665577	estimated_end	13644577
		located_end	13665577		
CH322-105F19	X	507912	528912	estimated_end	507912
		located_end	528912		
CH322-105F20	3L	19961966	19982966	estimated_end	19961966
		located_end	19982966		
CH322-105F21	2R	3373005	3394005	estimated_end	3373005
		located_end	3394005		
CH322-105F24	X	1130584	1151584	located_end	1130584
		estimated_end	1151584		
CH322-105G01	3L	16771720	16792720	located_end	16771720
		estimated_end	16792720		
CH322-105G05	2R	10894530	10915530	located_end	10894530
		estimated_end	10915530		
CH322-105G06	3R	8876964	8897964	estimated_end	8876964
		located_end	8897964		
CH322-105G07	3R	9956248	9977248	estimated_end	9956248
		located_end	9977248		
CH322-105G08	3L	11802587	11823587	estimated_end	11802587
		located_end	11823587		
CH322-105G10	2L	19441501	19462501	located_end	19441501
		estimated_end	19462501		
CH322-105G11	2L	17627693	17648693	estimated_end	17627693
		located_end	17648693		
CH322-105G13	3LHet	2392892	2413892	estimated_end	2392892
		located_end	2413892		
CH322-105G16	2R	19211123	19232123	estimated_end	19211123
		located_end	19232123		
CH322-105G17	2L	7097142	7118142	located_end	7097142
		estimated_end	7118142		
CH322-105G19	3R	17102166	17123166	located_end	17102166
		estimated_end	17123166		
CH322-105G20	3R	25684981	25705981	estimated_end	25684981
		located_end	25705981		
CH322-105G21	3L	24501321	24522321	located_end	24501321
		estimated_end	24522321		
CH322-105G22	3R	16642871	16663871	located_end	16642871
		estimated_end	16663871		
CH322-105G23	2L	5112552	5133552	estimated_end	5112552
		located_end	5133552		
CH322-105G24	2R	2427219	2448219	estimated_end	2427219
		located_end	2448219		

CH322-105H04	3R	21802799	21823799	estimated_end	21802799
		located_end	21823799		
CH322-105H05	3R	9666991	9687991	estimated_end	9666991
		located_end	9687991		
CH322-105H07	3LHet	148846	169846	estimated_end	148846
		located_end	169846		
CH322-105H08	3R	14850552	14871552	estimated_end	14850552
		located_end	14871552		
CH322-105H09	3R	16607685	16628685	located_end	16607685
		estimated_end	16628685		
CH322-105H10	2R	25977 46977	located_end 25977	estimated_end	
CH322-105H11	3R	6605747	6626747	located_end	6605747
		estimated_end	6626747		
CH322-105H12	2R	19464910	19485910	located_end	19464910
		estimated_end	19485910		
CH322-105H13	2L	958030	979030	located_end	958030
		estimated_end	979030		
CH322-105H14	3R	1380531	1401531	located_end	1380531
		estimated_end	1401531		
CH322-105H16	2R	5788872	5809872	estimated_end	5788872
		located_end	5809872		
CH322-105H17	2R	15059482	15080482	located_end	15059482
		estimated_end	15080482		
CH322-105H18	ArmU	45331 66331	located_end 45331	estimated_end	
CH322-105H20	3L	2584326	2605326	located_end	2584326
		estimated_end	2605326		
CH322-105H21	3L	19488235	19509235	estimated_end	19488235
		located_end	19509235		
CH322-105H23	2R	3698666	3719666	located_end	3698666
		estimated_end	3719666		
CH322-105H24	X	651330	672330	located_end	651330
		estimated_end	672330		
CH322-105I04	X	9782834	9803834	estimated_end	9782834
		located_end	9803834		
CH322-105I05	3R	19962143	19983143	estimated_end	19962143
		located_end	19983143		
CH322-105I06	3R	9858566	9879566	located_end	9858566
		estimated_end	9879566		
CH322-105I07	3R	21147477	21168477	located_end	21147477
		estimated_end	21168477		
CH322-105I08	3R	10844659	10865659	estimated_end	10844659
		located_end	10865659		
CH322-105I09	3L	24290308	24311308	located_end	24290308
		estimated_end	24311308		
CH322-105I10	3R	10532891	10553891	estimated_end	10532891
		located_end	10553891		
CH322-105I12	3R	24445752	24466752	located_end	24445752
		estimated_end	24466752		
CH322-105I13	2R	19611412	19632412	located_end	19611412
		estimated_end	19632412		
CH322-105I15	2L	21141360	21162360	located_end	21141360
		estimated_end	21162360		

CH322-105I17	X	491709	512709	estimated_end	491709
		located_end	512709		
CH322-105I18	2RHet	372118	393118	located_end	372118
		estimated_end	393118		
CH322-105I21	X	17887577	17908577	located_end	17887577
		estimated_end	17908577		
CH322-105I22	2L	15450949	15471949	estimated_end	15450949
		located_end	15471949		
CH322-105I24	3L	1413855	1434855	located_end	1413855
		estimated_end	1434855		
CH322-105J02	X	15112313	15133313	estimated_end	15112313
		located_end	15133313		
CH322-105J04	3R	4898525	4919525	estimated_end	4898525
		located_end	4919525		
CH322-105J05	2R	14863473	14884473	estimated_end	14863473
		located_end	14884473		
CH322-105J08	3LHet	205898	226898	estimated_end	205898
		located_end	226898		
CH322-105J09	3L	18234734	18255734	located_end	18234734
		estimated_end	18255734		
CH322-105J10	2R	7764139	7785139	estimated_end	7764139
		located_end	7785139		
CH322-105J11	3LHet	2263977	2284977	located_end	2263977
		estimated_end	2284977		
CH322-105J13	2L	16702994	16723994	estimated_end	16702994
		located_end	16723994		
CH322-105J14	3L	3009455	3030455	estimated_end	3009455
		located_end	3030455		
CH322-105J15	X	10894533	10915533	estimated_end	10894533
		located_end	10915533		
CH322-105J17	3R	16503112	16524112	located_end	16503112
		estimated_end	16524112		
CH322-105J22	3L	21424623	21445623	located_end	21424623
		estimated_end	21445623		
CH322-105J23	X	18114638	18135638	estimated_end	18114638
		located_end	18135638		
CH322-105J24	3R	9624861	9645861	located_end	9624861
		estimated_end	9645861		
CH322-105K03	3R	11128844	11149844	estimated_end	11128844
		located_end	11149844		
CH322-105K04	2L	4623161	4644161	located_end	4623161
		estimated_end	4644161		
CH322-105K05	X	658199	679199	estimated_end	658199
		located_end	679199		
CH322-105K06	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-105K08	3L	19772479	19793479	estimated_end	19772479
		located_end	19793479		
CH322-105K09	2L	9800211	9821211	estimated_end	9800211
		located_end	9821211		
CH322-105K11	3R	11186546	11207546	located_end	11186546
		estimated_end	11207546		
CH322-105K12	3R	4365572	4386572	estimated_end	4365572
		located_end	4386572		

CH322-105K13	2R	5442865	5463865	located_end	5442865
		estimated_end	5463865		
CH322-105K14	3L	16616758	16637758	located_end	16616758
		estimated_end	16637758		
CH322-105K16	3R	16148551	16169551	located_end	16148551
		estimated_end	16169551		
CH322-105K19	3R	9590215	9611215	estimated_end	9590215
		located_end	9611215		
CH322-105K21	3LHet	856141	877141	estimated_end	856141
		located_end	877141		
CH322-105K23	2L	2085548	2106548	located_end	2085548
		estimated_end	2106548		
CH322-105K24	3L	18842838	18863838	located_end	18842838
		estimated_end	18863838		
CH322-105L02	3L	16934726	16955726	estimated_end	16934726
		located_end	16955726		
CH322-105L04	3L	13033131	13054131	estimated_end	13033131
		located_end	13054131		
CH322-105L05	2R	3795407	3816407	estimated_end	3795407
		located_end	3816407		
CH322-105L06	3R	22811580	22832580	located_end	22811580
		estimated_end	22832580		
CH322-105L08	3L	6809671	6830671	estimated_end	6809671
		located_end	6830671		
CH322-105L09	2R	15127781	15148781	located_end	15127781
		estimated_end	15148781		
CH322-105L10	X	16402753	16423753	estimated_end	16402753
		located_end	16423753		
CH322-105L16	X	8034557	8055557	located_end	8034557
		estimated_end	8055557		
CH322-105L19	2R	15979548	16000548	located_end	15979548
		estimated_end	16000548		
CH322-105L21	ArmU	7733623	7754623	estimated_end	7733623
		located_end	7754623		
CH322-105L22	2L	19388704	19409704	estimated_end	19388704
		located_end	19409704		
CH322-105L23	2L	9305728	9326728	located_end	9305728
		estimated_end	9326728		
CH322-105L24	3L	21310171	21331171	located_end	21310171
		estimated_end	21331171		
CH322-105M02	2L	104705	125705	estimated_end	104705
		located_end	125705		
CH322-105M06	2R	14912937	14933937	located_end	14912937
		estimated_end	14933937		
CH322-105M08	2R	5462888	5483888	located_end	5462888
		estimated_end	5483888		
CH322-105M09	3R	443848	464848	located_end	443848
		estimated_end	464848		
CH322-105M10	X	8300116	8321116	located_end	8300116
		estimated_end	8321116		
CH322-105M11	3R	22294410	22315410	located_end	22294410
		estimated_end	22315410		
CH322-105N02	3L	9030710	9051710	located_end	9030710
		estimated_end	9051710		

CH322-105N04	3R	6870834	6891834	located_end	6870834
		estimated_end	6891834		
CH322-105N06	2L	16758162	16779162	estimated_end	16758162
		located_end	16779162		
CH322-105N08	X	14371034	14392034	located_end	14371034
		estimated_end	14392034		
CH322-105N09	2R	1346907	1367907	estimated_end	1346907
		located_end	1367907		
CH322-105N19	2L	10664019	10685019	estimated_end	10664019
		located_end	10685019		
CH322-105N21	2R	5751058	5772058	estimated_end	5751058
		located_end	5772058		
CH322-105O01	3L	1504218	1525218	located_end	1504218
		estimated_end	1525218		
CH322-105O03	X	3326656	3347656	located_end	3326656
		estimated_end	3347656		
CH322-105O04	3R	27854455	27875455	estimated_end	27854455
		located_end	27875455		
CH322-105O06	3R	392377	413377	located_end	392377
		estimated_end	413377		
CH322-105O07	2RHet	2992581	3013581	estimated_end	2992581
		located_end	3013581		
CH322-105O08	2L	20331221	20352221	estimated_end	20331221
		located_end	20352221		
CH322-105O09	3L	8842268	8863268	estimated_end	8842268
		located_end	8863268		
CH322-105O13	X	16168641	16189641	located_end	16168641
		estimated_end	16189641		
CH322-105P19	3R	14963306	14984306	estimated_end	14963306
		located_end	14984306		
CH322-106A01	2L	11384520	11405520	located_end	11384520
		estimated_end	11405520		
CH322-106A02	3L	4325368	4346368	located_end	4325368
		estimated_end	4346368		
CH322-106A03	3L	11498337	11519337	estimated_end	11498337
		located_end	11519337		
CH322-106A04	3L	23562893	23583893	estimated_end	23562893
		located_end	23583893		
CH322-106A05	2L	4810736	4831736	estimated_end	4810736
		located_end	4831736		
CH322-106A06	3L	6064972	6085972	located_end	6064972
		estimated_end	6085972		
CH322-106A07	2L	22590433	22611433	estimated_end	22590433
		located_end	22611433		
CH322-106A08	2L	213432	234432	estimated_end	213432
		located_end	234432		
CH322-106A10	2R	10320578	10341578	estimated_end	10320578
		located_end	10341578		
CH322-106A11	2L	22282802	22303802	located_end	22282802
		estimated_end	22303802		
CH322-106A12	2R	20655688	20676688	located_end	20655688
		estimated_end	20676688		
CH322-106A13	3L	943186	964186	estimated_end	943186
		located_end	964186		

CH322-106A14	2L	4795509	4816509	estimated_end	4795509
		located_end	4816509		
CH322-106A16	2L	6278833	6299833	estimated_end	6278833
		located_end	6299833		
CH322-106A17	2R	19115278	19136278	located_end	19115278
		estimated_end	19136278		
CH322-106A18	2R	18645179	18666179	estimated_end	18645179
		located_end	18666179		
CH322-106A19	3R	9090382	9111382	located_end	9090382
		estimated_end	9111382		
CH322-106A20	3R	12559388	12580388	estimated_end	12559388
		located_end	12580388		
CH322-106A21	X	7354157	7375157	located_end	7354157
		estimated_end	7375157		
CH322-106A22	2L	1157391	1178391	estimated_end	1157391
		located_end	1178391		
CH322-106A23	3R	22459795	22480795	estimated_end	22459795
		located_end	22480795		
CH322-106A24	2L	346011	367011	estimated_end	346011
		located_end	367011		
CH322-106B02	3L	21054462	21075462	located_end	21054462
		estimated_end	21075462		
CH322-106B03	2R	10137551	10158551	located_end	10137551
		estimated_end	10158551		
CH322-106B04	3R	23041077	23062077	located_end	23041077
		estimated_end	23062077		
CH322-106B05	2R	18579490	18600490	estimated_end	18579490
		located_end	18600490		
CH322-106B06	2R	12788042	12809042	estimated_end	12788042
		located_end	12809042		
CH322-106B09	2R	4805019	4826019	estimated_end	4805019
		located_end	4826019		
CH322-106B12	3R	25960721	25981721	estimated_end	25960721
		located_end	25981721		
CH322-106B14	3R	1354412	1375412	estimated_end	1354412
		located_end	1375412		
CH322-106B15	2R	6651429	6672429	estimated_end	6651429
		located_end	6672429		
CH322-106B16	3R	9607355	9628355	estimated_end	9607355
		located_end	9628355		
CH322-106B17	3R	2599602	2620602	estimated_end	2599602
		located_end	2620602		
CH322-106B18	X	10389849	10410849	located_end	10389849
		estimated_end	10410849		
CH322-106B19	X	15824317	15845317	estimated_end	15824317
		located_end	15845317		
CH322-106B20	X	9934152	9955152	estimated_end	9934152
		located_end	9955152		
CH322-106B21	3L	1219292	1240292	estimated_end	1219292
		located_end	1240292		
CH322-106B22	2R	3820340	3841340	located_end	3820340
		estimated_end	3841340		
CH322-106B23	3L	18573608	18594608	estimated_end	18573608
		located_end	18594608		

CH322-106B24	2L	20760953	20781953	estimated_end	20760953
		located_end	20781953		
CH322-106C01	3L	6740082	6761082	estimated_end	6740082
		located_end	6761082		
CH322-106C02	X	18364933	18385933	estimated_end	18364933
		located_end	18385933		
CH322-106C04	3R	22919182	22940182	located_end	22919182
		estimated_end	22940182		
CH322-106C05	3L	13832880	13853880	estimated_end	13832880
		located_end	13853880		
CH322-106C06	X	3061710	3082710	estimated_end	3061710
		located_end	3082710		
CH322-106C08	3L	18874926	18895926	estimated_end	18874926
		located_end	18895926		
CH322-106C09	3L	16231229	16252229	estimated_end	16231229
		located_end	16252229		
CH322-106C10	2R	20735195	20756195	estimated_end	20735195
		located_end	20756195		
CH322-106C11	2R	3900563	3921563	estimated_end	3900563
		located_end	3921563		
CH322-106C13	3R	11086481	11107481	estimated_end	11086481
		located_end	11107481		
CH322-106C15	X	14069401	14090401	estimated_end	14069401
		located_end	14090401		
CH322-106C16	3LHet	2541888	2562888	located_end	2541888
		estimated_end	2562888		
CH322-106C18	3L	775466	796466	located_end	775466
		estimated_end	796466		
CH322-106C19	X	20099345	20120345	estimated_end	20099345
		located_end	20120345		
CH322-106C20	2R	7714759	7735759	estimated_end	7714759
		located_end	7735759		
CH322-106C21	3R	16774727	16795727	estimated_end	16774727
		located_end	16795727		
CH322-106C22	3R	7790516	7811516	estimated_end	7790516
		located_end	7811516		
CH322-106C23	3L	21691135	21712135	estimated_end	21691135
		located_end	21712135		
CH322-106C24	2R	9931708	9952708	located_end	9931708
		estimated_end	9952708		
CH322-106D01	3R	16341265	16362265	located_end	16341265
		estimated_end	16362265		
CH322-106D02	3LHet	460185	481185	estimated_end	460185
		located_end	481185		
CH322-106D03	3R	5382840	5403840	estimated_end	5382840
		located_end	5403840		
CH322-106D04	2R	14918481	14939481	estimated_end	14918481
		located_end	14939481		
CH322-106D07	3L	6454681	6475681	located_end	6454681
		estimated_end	6475681		
CH322-106D08	2L	1090660	1111660	located_end	1090660
		estimated_end	1111660		
CH322-106D10	3R	7882332	7903332	located_end	7882332
		estimated_end	7903332		

CH322-106D12	3R	25317710	25338710	located_end	25317710
		estimated_end	25338710		
CH322-106D14	3R	3397666	3418666	located_end	3397666
		estimated_end	3418666		
CH322-106D16	3R	5384155	5405155	estimated_end	5384155
		located_end	5405155		
CH322-106D17	3R	301862	322862	estimated_end	301862
		located_end	322862		
CH322-106D18	2R	14287134	14308134	located_end	14287134
		estimated_end	14308134		
CH322-106D19	2L	9396101	9417101	estimated_end	9396101
		located_end	9417101		
CH322-106D20	3R	5680282	5701282	estimated_end	5680282
		located_end	5701282		
CH322-106D21	3R	6897520	6918520	located_end	6897520
		estimated_end	6918520		
CH322-106D22	2R	9724437	9745437	located_end	9724437
		estimated_end	9745437		
CH322-106D23	3R	8855261	8876261	located_end	8855261
		estimated_end	8876261		
CH322-106D24	X	14395393	14416393	located_end	14395393
		estimated_end	14416393		
CH322-106E03	3R	21961535	21982535	located_end	21961535
		estimated_end	21982535		
CH322-106E04	2L	18821741	18842741	located_end	18821741
		estimated_end	18842741		
CH322-106E05	2R	17532653	17553653	located_end	17532653
		estimated_end	17553653		
CH322-106E06	3R	25431612	25452612	estimated_end	25431612
		located_end	25452612		
CH322-106E07	2R	4968684	4989684	located_end	4968684
		estimated_end	4989684		
CH322-106E08	2R	18633256	18654256	estimated_end	18633256
		located_end	18654256		
CH322-106E09	3L	6954200	6975200	located_end	6954200
		estimated_end	6975200		
CH322-106E13	2R	6045862	6066862	located_end	6045862
		estimated_end	6066862		
CH322-106E16	2L	2964810	2985810	estimated_end	2964810
		located_end	2985810		
CH322-106E17	2R	19142957	19163957	located_end	19142957
		estimated_end	19163957		
CH322-106E18	3R	8397830	8418830	estimated_end	8397830
		located_end	8418830		
CH322-106E19	X	9951260	9972260	located_end	9951260
		estimated_end	9972260		
CH322-106E20	2L	21341791	21362791	estimated_end	21341791
		located_end	21362791		
CH322-106E21	X	3893203	3914203	estimated_end	3893203
		located_end	3914203		
CH322-106E22	2R	19899068	19920068	estimated_end	19899068
		located_end	19920068		
CH322-106E23	3R	8740429	8761429	located_end	8740429
		estimated_end	8761429		

CH322-106E24	2L	3869567	3890567	located_end	3869567
		estimated_end	3890567		
CH322-106F01	2R	9021996	9042996	located_end	9021996
		estimated_end	9042996		
CH322-106F02	2R	3233456	3254456	located_end	3233456
		estimated_end	3254456		
CH322-106F04	2R	5437464	5458464	located_end	5437464
		estimated_end	5458464		
CH322-106F05	3R	10207667	10228667	estimated_end	10207667
		located_end	10228667		
CH322-106F07	X	4520765	4541765	located_end	4520765
		estimated_end	4541765		
CH322-106F08	3R	16312667	16333667	estimated_end	16312667
		located_end	16333667		
CH322-106F12	3RHet	570656	591656	estimated_end	570656
		located_end	591656		
CH322-106F13	3R	5051878	5072878	estimated_end	5051878
		located_end	5072878		
CH322-106F14	3L	23233327	23254327	located_end	23233327
		estimated_end	23254327		
CH322-106F17	2RHet	106646	127646	located_end	106646
		estimated_end	127646		
CH322-106F20	3L	16908833	16929833	estimated_end	16908833
		located_end	16929833		
CH322-106F22	X	16640051	16661051	estimated_end	16640051
		located_end	16661051		
CH322-106F23	2L	10818665	10839665	estimated_end	10818665
		located_end	10839665		
CH322-106F24	3R	7834504	7855504	estimated_end	7834504
		located_end	7855504		
CH322-106G02	3L	17851263	17872263	estimated_end	17851263
		located_end	17872263		
CH322-106G05	3R	27017855	27038855	estimated_end	27017855
		located_end	27038855		
CH322-106G06	2R	17065359	17086359	located_end	17065359
		estimated_end	17086359		
CH322-106G07	3R	26432329	26453329	estimated_end	26432329
		located_end	26453329		
CH322-106G08	3R	27350288	27371288	estimated_end	27350288
		located_end	27371288		
CH322-106G12	3L	13000038	13021038	estimated_end	13000038
		located_end	13021038		
CH322-106G16	2R	298329	319329	estimated_end	298329
		located_end	319329		
CH322-106G20	2R	13260254	13281254	estimated_end	13260254
		located_end	13281254		
CH322-106G21	3R	22459795	22480795	estimated_end	22459795
		located_end	22480795		
CH322-106G22	2L	5495390	5516390	estimated_end	5495390
		located_end	5516390		
CH322-106G23	3L	3152293	3173293	located_end	3152293
		estimated_end	3173293		
CH322-106G24	2RHet	2139263	2160263	estimated_end	2139263
		located_end	2160263		

CH322-106H04	4	1101565	1122565	located_end	1101565
		estimated_end	1122565		
CH322-106H05	3L	15812109	15833109	located_end	15812109
		estimated_end	15833109		
CH322-106H06	X	8031156	8052156	estimated_end	8031156
		located_end	8052156		
CH322-106H09	3L	18671196	18692196	located_end	18671196
		estimated_end	18692196		
CH322-106H10	2L	22326088	22347088	located_end	22326088
		estimated_end	22347088		
CH322-106H11	2L	14796537	14817537	located_end	14796537
		estimated_end	14817537		
CH322-106H13	2L	3469554	3490554	located_end	3469554
		estimated_end	3490554		
CH322-106H14	2R	5097290	5118290	located_end	5097290
		estimated_end	5118290		
CH322-106H15	2R	14315838	14336838	estimated_end	14315838
		located_end	14336838		
CH322-106H16	3R	15394869	15415869	estimated_end	15394869
		located_end	15415869		
CH322-106H21	X	5922147	5943147	located_end	5922147
		estimated_end	5943147		
CH322-106H22	3L	2211875	2232875	located_end	2211875
		estimated_end	2232875		
CH322-106H23	3R	11696235	11717235	estimated_end	11696235
		located_end	11717235		
CH322-106H24	3R	17445898	17466898	estimated_end	17445898
		located_end	17466898		
CH322-106I04	2R	20662228	20683228	located_end	20662228
		estimated_end	20683228		
CH322-106I05	3R	15464441	15485441	located_end	15464441
		estimated_end	15485441		
CH322-106I06	X	1225567	1246567	located_end	1225567
		estimated_end	1246567		
CH322-106I07	3L	23053175	23074175	located_end	23053175
		estimated_end	23074175		
CH322-106I08	3R	23183892	23204892	estimated_end	23183892
		located_end	23204892		
CH322-106I09	3R	23077392	23098392	located_end	23077392
		estimated_end	23098392		
CH322-106I10	2R	164195	185195	located_end	164195
		estimated_end	185195		
CH322-106I12	2R	4376695	4397695	estimated_end	4376695
		located_end	4397695		
CH322-106I14	X	1609650	1630650	estimated_end	1609650
		located_end	1630650		
CH322-106I15	X	4368577	4389577	located_end	4368577
		estimated_end	4389577		
CH322-106I16	3R	12985215	13006215	estimated_end	12985215
		located_end	13006215		
CH322-106I17	X	7977085	7998085	estimated_end	7977085
		located_end	7998085		
CH322-106I18	X	18943917	18964917	located_end	18943917
		estimated_end	18964917		

CH322-106I19	2R	14797979	14818979	estimated_end	14797979
		located_end	14818979		
CH322-106I21	2L	21879669	21900669	estimated_end	21879669
		located_end	21900669		
CH322-106I23	3R	2604062	2625062	located_end	2604062
		estimated_end	2625062		
CH322-106J01	2L	12173216	12194216	located_end	12173216
		estimated_end	12194216		
CH322-106J07	2L	-6024 14976	estimated_end	-6024 located_end	
		14976			
CH322-106J08	2L	20633956	20654956	estimated_end	20633956
		located_end	20654956		
CH322-106J10	3R	24205468	24226468	estimated_end	24205468
		located_end	24226468		
CH322-106J11	X	13678318	13699318	estimated_end	13678318
		located_end	13699318		
CH322-106J14	3L	13954805	13975805	located_end	13954805
		estimated_end	13975805		
CH322-106J15	3L	11681350	11702350	located_end	11681350
		estimated_end	11702350		
CH322-106J16	3L	21959189	21980189	located_end	21959189
		estimated_end	21980189		
CH322-106J18	3LHet	1328837	1349837	estimated_end	1328837
		located_end	1349837		
CH322-106J19	2R	5104949	5125949	located_end	5104949
		estimated_end	5125949		
CH322-106J21	2R	4721168	4742168	located_end	4721168
		estimated_end	4742168		
CH322-106J22	3R	9917397	9938397	estimated_end	9917397
		located_end	9938397		
CH322-106J23	2L	1618808	1639808	estimated_end	1618808
		located_end	1639808		
CH322-106K05	2R	15131704	15152704	estimated_end	15131704
		located_end	15152704		
CH322-106K06	X	17221125	17242125	located_end	17221125
		estimated_end	17242125		
CH322-106K07	X	9135243	9156243	estimated_end	9135243
		located_end	9156243		
CH322-106K09	X	1071653	1092653	estimated_end	1071653
		located_end	1092653		
CH322-106K10	3R	26867430	26888430	estimated_end	26867430
		located_end	26888430		
CH322-106K15	2R	19219237	19240237	located_end	19219237
		estimated_end	19240237		
CH322-106K16	2R	7224648	7245648	estimated_end	7224648
		located_end	7245648		
CH322-106K19	X	8299043	8320043	estimated_end	8299043
		located_end	8320043		
CH322-106K21	3L	13438705	13459705	estimated_end	13438705
		located_end	13459705		
CH322-106K22	X	20188947	20209947	estimated_end	20188947
		located_end	20209947		
CH322-106K23	X	2687856	2708856	located_end	2687856
		estimated_end	2708856		

CH322-106K24	ArmU	1470313	1491313	estimated_end	1470313
		located_end	1491313		
CH322-106L03	2L	21135929	21156929	located_end	21135929
		estimated_end	21156929		
CH322-106L09	3R	11952923	11973923	estimated_end	11952923
		located_end	11973923		
CH322-106L10	3L	12002747	12023747	estimated_end	12002747
		located_end	12023747		
CH322-106L18	2L	15979949	16000949	located_end	15979949
		estimated_end	16000949		
CH322-106L24	2L	12549634	12570634	located_end	12549634
		estimated_end	12570634		
CH322-106M02	3R	5867402	5888402	located_end	5867402
		estimated_end	5888402		
CH322-106M04	3L	3466964	3487964	located_end	3466964
		estimated_end	3487964		
CH322-106M06	3R	18608314	18629314	estimated_end	18608314
		located_end	18629314		
CH322-106M10	2L	11991360	12012360	located_end	11991360
		estimated_end	12012360		
CH322-106M12	3L	1552475	1573475	located_end	1552475
		estimated_end	1573475		
CH322-106N01	2RHet	445672	466672	located_end	445672
		estimated_end	466672		
CH322-106N02	2R	19751839	19772839	located_end	19751839
		estimated_end	19772839		
CH322-106N03	X	12524322	12545322	located_end	12524322
		estimated_end	12545322		
CH322-106N09	3R	6514676	6535676	estimated_end	6514676
		located_end	6535676		
CH322-106O01	3R	1138140	1159140	located_end	1138140
		estimated_end	1159140		
CH322-106O03	3R	10410564	10431564	located_end	10410564
		estimated_end	10431564		
CH322-106O04	3R	13588437	13609437	estimated_end	13588437
		located_end	13609437		
CH322-106O07	2R	15674638	15695638	estimated_end	15674638
		located_end	15695638		
CH322-106P01	3R	12002341	12023341	located_end	12002341
		estimated_end	12023341		
CH322-106P02	3R	11487305	11508305	located_end	11487305
		estimated_end	11508305		
CH322-106P03	3R	20919892	20940892	estimated_end	20919892
		located_end	20940892		
CH322-106P04	3R	21811503	21832503	estimated_end	21811503
		located_end	21832503		
CH322-106P10	X	6865836	6886836	located_end	6865836
		estimated_end	6886836		
CH322-106P15	3L	11556455	11577455	located_end	11556455
		estimated_end	11577455		
CH322-106P17	2R	4827587	4848587	estimated_end	4827587
		located_end	4848587		
CH322-106P18	2R	3186802	3207802	estimated_end	3186802
		located_end	3207802		

CH322-106P19	2R	12788042	12809042	estimated_end	12788042
		located_end	12809042		
CH322-107A01	2R	2466852	2487852	located_end	2466852
		estimated_end	2487852		
CH322-107A02	3L	14943505	14964505	located_end	14943505
		estimated_end	14964505		
CH322-107A03	3L	13000803	13021803	located_end	13000803
		estimated_end	13021803		
CH322-107A04	X	17649116	17670116	located_end	17649116
		estimated_end	17670116		
CH322-107A06	2L	6520062	6541062	estimated_end	6520062
		located_end	6541062		
CH322-107A07	3L	15124141	15145141	estimated_end	15124141
		located_end	15145141		
CH322-107A08	2R	12199716	12220716	located_end	12199716
		estimated_end	12220716		
CH322-107A11	3R	7087407	7108407	estimated_end	7087407
		located_end	7108407		
CH322-107A13	2R	17450595	17471595	located_end	17450595
		estimated_end	17471595		
CH322-107A14	X	14184741	14205741	located_end	14184741
		estimated_end	14205741		
CH322-107A17	X	11756432	11777432	located_end	11756432
		estimated_end	11777432		
CH322-107A18	2L	19431664	19452664	located_end	19431664
		estimated_end	19452664		
CH322-107A19	3R	25710661	25731661	estimated_end	25710661
		located_end	25731661		
CH322-107A21	3L	15257619	15278619	located_end	15257619
		estimated_end	15278619		
CH322-107A24	3R	27487844	27508844	located_end	27487844
		estimated_end	27508844		
CH322-107B03	3L	14123527	14144527	located_end	14123527
		estimated_end	14144527		
CH322-107B05	3L	11401538	11422538	located_end	11401538
		estimated_end	11422538		
CH322-107B06	3R	15289061	15310061	estimated_end	15289061
		located_end	15310061		
CH322-107B07	3R	16811803	16832803	located_end	16811803
		estimated_end	16832803		
CH322-107B09	2R	16508875	16529875	located_end	16508875
		estimated_end	16529875		
CH322-107B10	3R	8813488	8834488	located_end	8813488
		estimated_end	8834488		
CH322-107B11	X	770133	791133	located_end	770133
		estimated_end	791133		
CH322-107B13	2L	8304343	8325343	estimated_end	8304343
		located_end	8325343		
CH322-107B14	3R	7223489	7244489	estimated_end	7223489
		located_end	7244489		
CH322-107B19	2R	13340844	13361844	located_end	13340844
		estimated_end	13361844		
CH322-107B20	3R	5485470	5506470	located_end	5485470
		estimated_end	5506470		

CH322-107B21	3R	9678552	9699552	estimated_end	9678552
		located_end	9699552		
CH322-107B24	3R	417262	438262	located_end	417262
		estimated_end	438262		
CH322-107C01	3R	952030	973030	located_end	952030
		estimated_end	973030		
CH322-107C02	3R	5119785	5140785	located_end	5119785
		estimated_end	5140785		
CH322-107C03	2L	4256229	4277229	estimated_end	4256229
		located_end	4277229		
CH322-107C04	2R	3069143	3090143	located_end	3069143
		estimated_end	3090143		
CH322-107C05	2L	9579787	9600787	estimated_end	9579787
		located_end	9600787		
CH322-107C06	2L	16891587	16912587	located_end	16891587
		estimated_end	16912587		
CH322-107C11	2R	6242885	6263885	estimated_end	6242885
		located_end	6263885		
CH322-107C17	2R	17154837	17175837	located_end	17154837
		estimated_end	17175837		
CH322-107C18	X	17135407	17156407	estimated_end	17135407
		located_end	17156407		
CH322-107C19	3R	3839200	3860200	located_end	3839200
		estimated_end	3860200		
CH322-107C23	2L	3455015	3476015	located_end	3455015
		estimated_end	3476015		
CH322-107C24	2L	4572889	4593889	estimated_end	4572889
		located_end	4593889		
CH322-107D01	3L	7327236	7348236	located_end	7327236
		estimated_end	7348236		
CH322-107D04	3R	3451030	3472030	estimated_end	3451030
		located_end	3472030		
CH322-107D05	3R	8824678	8845678	estimated_end	8824678
		located_end	8845678		
CH322-107D06	2R	8238205	8259205	located_end	8238205
		estimated_end	8259205		
CH322-107D07	X	2504946	2525946	estimated_end	2504946
		located_end	2525946		
CH322-107D08	3R	16481178	16502178	estimated_end	16481178
		located_end	16502178		
CH322-107D09	3R	9450280	9471280	located_end	9450280
		estimated_end	9471280		
CH322-107D11	3R	8017129	8038129	estimated_end	8017129
		located_end	8038129		
CH322-107D15	X	7186051	7207051	located_end	7186051
		estimated_end	7207051		
CH322-107D20	2R	16788959	16809959	estimated_end	16788959
		located_end	16809959		
CH322-107D21	2R	9313716	9334716	estimated_end	9313716
		located_end	9334716		
CH322-107E01	3R	14360282	14381282	estimated_end	14360282
		located_end	14381282		
CH322-107E03	3R	15041003	15062003	located_end	15041003
		estimated_end	15062003		

CH322-107E04	X	6173247	6194247	estimated_end	6173247
		located_end	6194247		
CH322-107E07	3R	3689853	3710853	estimated_end	3689853
		located_end	3710853		
CH322-107E08	2L	16029036	16050036	estimated_end	16029036
		located_end	16050036		
CH322-107E12	3L	2091124	2112124	located_end	2091124
		estimated_end	2112124		
CH322-107E15	3R	7724322	7745322	located_end	7724322
		estimated_end	7745322		
CH322-107E16	2R	19516314	19537314	estimated_end	19516314
		located_end	19537314		
CH322-107E17	3L	3570104	3591104	located_end	3570104
		estimated_end	3591104		
CH322-107E18	2R	18340434	18361434	located_end	18340434
		estimated_end	18361434		
CH322-107E21	3R	1657191	1678191	estimated_end	1657191
		located_end	1678191		
CH322-107E22	3L	1399927	1420927	estimated_end	1399927
		located_end	1420927		
CH322-107E23	3L	22345748	22366748	located_end	22345748
		estimated_end	22366748		
CH322-107F01	3L	19229735	19250735	estimated_end	19229735
		located_end	19250735		
CH322-107F02	3R	16888313	16909313	located_end	16888313
		estimated_end	16909313		
CH322-107F03	3R	17538252	17559252	located_end	17538252
		estimated_end	17559252		
CH322-107F04	2R	9342296	9363296	located_end	9342296
		estimated_end	9363296		
CH322-107F15	2R	4117753	4138753	located_end	4117753
		estimated_end	4138753		
CH322-107F17	2L	22571440	22592440	estimated_end	22571440
		located_end	22592440		
CH322-107F18	2L	8256264	8277264	located_end	8256264
		estimated_end	8277264		
CH322-107F22	2R	18163173	18184173	estimated_end	18163173
		located_end	18184173		
CH322-107F23	2L	9196967	9217967	estimated_end	9196967
		located_end	9217967		
CH322-107G06	3L	16233534	16254534	estimated_end	16233534
		located_end	16254534		
CH322-107G07	3LHet	2257396	2278396	estimated_end	2257396
		located_end	2278396		
CH322-107G14	2L	11080981	11101981	estimated_end	11080981
		located_end	11101981		
CH322-107G16	3R	20743786	20764786	located_end	20743786
		estimated_end	20764786		
CH322-107G17	3L	764379	785379	estimated_end	764379
		located_end	785379		
CH322-107G24	2L	18564755	18585755	estimated_end	18564755
		located_end	18585755		
CH322-107H02	XHet	146080	167080	estimated_end	146080
		located_end	167080		

CH322-107H03	3R	6016521	6037521	located_end	6016521
		estimated_end	6037521		
CH322-107H04	2L	15905134	15926134	located_end	15905134
		estimated_end	15926134		
CH322-107H05	2R	15301540	15322540	located_end	15301540
		estimated_end	15322540		
CH322-107H07	ArmU	6802935	6823935	estimated_end	6802935
		located_end	6823935		
CH322-107H12	2R	15553595	15574595	estimated_end	15553595
		located_end	15574595		
CH322-107H19	3R	8253308	8274308	estimated_end	8253308
		located_end	8274308		
CH322-107H22	X	22198899	22219899	estimated_end	22198899
		located_end	22219899		
CH322-107H23	2R	10032515	10053515	estimated_end	10032515
		located_end	10053515		
CH322-107H24	3R	9730313	9751313	located_end	9730313
		estimated_end	9751313		
CH322-107I05	2L	8156041	8177041	estimated_end	8156041
		located_end	8177041		
CH322-107I09	3L	7209779	7230779	estimated_end	7209779
		located_end	7230779		
CH322-107I15	2R	7720560	7741560	located_end	7720560
		estimated_end	7741560		
CH322-107I17	3L	631221	652221	estimated_end	631221
		located_end	652221		
CH322-107I19	3RHet	1788293	1809293	estimated_end	1788293
		located_end	1809293		
CH322-107I20	3LHet	613409	634409	located_end	613409
		estimated_end	634409		
CH322-107I23	3L	12772822	12793822	located_end	12772822
		estimated_end	12793822		
CH322-107I24	2L	15261685	15282685	estimated_end	15261685
		located_end	15282685		
CH322-107J01	3R	26765080	26786080	estimated_end	26765080
		located_end	26786080		
CH322-107J05	3R	20834872	20855872	estimated_end	20834872
		located_end	20855872		
CH322-107J07	3R	20054793	20075793	estimated_end	20054793
		located_end	20075793		
CH322-107J11	2L	13644276	13665276	estimated_end	13644276
		located_end	13665276		
CH322-107J15	3L	7297866	7318866	located_end	7297866
		estimated_end	7318866		
CH322-107J19	2L	5902110	5923110	estimated_end	5902110
		located_end	5923110		
CH322-107J20	3R	16310043	16331043	estimated_end	16310043
		located_end	16331043		
CH322-107J21	2L	6447380	6468380	located_end	6447380
		estimated_end	6468380		
CH322-107J23	2L	10989003	11010003	located_end	10989003
		estimated_end	11010003		
CH322-107K04	3R	16768640	16789640	estimated_end	16768640
		located_end	16789640		

CH322-107K05	X	21505389	21526389	located_end	21505389
		estimated_end	21526389		
CH322-107K06	2R	4415281	4436281	located_end	4415281
		estimated_end	4436281		
CH322-107K07	3R	25570381	25591381	located_end	25570381
		estimated_end	25591381		
CH322-107K13	2L	14428152	14449152	estimated_end	14428152
		located_end	14449152		
CH322-107K14	3L	4219223	4240223	located_end	4219223
		estimated_end	4240223		
CH322-107K15	3R	7816885	7837885	estimated_end	7816885
		located_end	7837885		
CH322-107K23	3L	280421	301421	estimated_end	280421
		located_end	301421		
CH322-107K24	2R	12249247	12270247	located_end	12249247
		estimated_end	12270247		
CH322-107L04	3L	14003171	14024171	located_end	14003171
		estimated_end	14024171		
CH322-107L18	2L	14267703	14288703	located_end	14267703
		estimated_end	14288703		
CH322-107L23	X	8932357	8953357	estimated_end	8932357
		located_end	8953357		
CH322-107M02	3RHet	1678428	1699428	estimated_end	1678428
		located_end	1699428		
CH322-107M04	3R	2943699	2964699	located_end	2943699
		estimated_end	2964699		
CH322-107M05	3L	638859	659859	estimated_end	638859
		located_end	659859		
CH322-107M06	3R	16663639	16684639	located_end	16663639
		estimated_end	16684639		
CH322-107N01	3L	4720854	4741854	estimated_end	4720854
		located_end	4741854		
CH322-107N02	3L	8144853	8165853	estimated_end	8144853
		located_end	8165853		
CH322-107N03	2R	7943769	7964769	estimated_end	7943769
		located_end	7964769		
CH322-107N04	X	13011001	13032001	located_end	13011001
		estimated_end	13032001		
CH322-107N06	2R	10519853	10540853	estimated_end	10519853
		located_end	10540853		
CH322-107N07	2R	392672	413672	located_end	392672
		estimated_end	413672		
CH322-107N08	2L	15029750	15050750	estimated_end	15029750
		located_end	15050750		
CH322-107N09	3R	14571335	14592335	located_end	14571335
		estimated_end	14592335		
CH322-107O03	3L	2414413	2435413	located_end	2414413
		estimated_end	2435413		
CH322-107O06	X	3733035	3754035	located_end	3733035
		estimated_end	3754035		
CH322-107O08	3L	8958499	8979499	located_end	8958499
		estimated_end	8979499		
CH322-107O09	3R	1581767	1602767	estimated_end	1581767
		located_end	1602767		

CH322-107010	2L	5026510	5047510	estimated_end	5026510
		located_end	5047510		
CH322-107011	3L	10361590	10382590	estimated_end	10361590
		located_end	10382590		
CH322-107P02	2L	809618	830618	estimated_end	809618
		located_end	830618		
CH322-107P03	3R	1624248	1645248	estimated_end	1624248
		located_end	1645248		
CH322-107P04	X	18733738	18754738	estimated_end	18733738
		located_end	18754738		
CH322-107P06	2R	13420387	13441387	estimated_end	13420387
		located_end	13441387		
CH322-107P09	X	15630051	15651051	estimated_end	15630051
		located_end	15651051		
CH322-107P10	2R	4965005	4986005	located_end	4965005
		estimated_end	4986005		
CH322-107P15	2R	21104609	21125609	estimated_end	21104609
		located_end	21125609		
CH322-107P18	3L	1832557	1853557	estimated_end	1832557
		located_end	1853557		
CH322-107P20	X	1746149	1767149	located_end	1746149
		estimated_end	1767149		
CH322-108A01	3R	8130312	8151312	estimated_end	8130312
		located_end	8151312		
CH322-108A03	2R	8674411	8695411	located_end	8674411
		estimated_end	8695411		
CH322-108A04	3R	451832	472832	located_end	451832
		estimated_end	472832		
CH322-108A05	3L	4269659	4290659	located_end	4269659
		estimated_end	4290659		
CH322-108A06	X	2085431	2106431	located_end	2085431
		estimated_end	2106431		
CH322-108A07	X	6853005	6874005	estimated_end	6853005
		located_end	6874005		
CH322-108A09	X	18543195	18564195	located_end	18543195
		estimated_end	18564195		
CH322-108A11	X	4558248	4579248	estimated_end	4558248
		located_end	4579248		
CH322-108A13	2L	8276591	8297591	located_end	8276591
		estimated_end	8297591		
CH322-108A15	3R	21802346	21823346	estimated_end	21802346
		located_end	21823346		
CH322-108A16	3R	25861079	25882079	estimated_end	25861079
		located_end	25882079		
CH322-108A17	3R	25139195	25160195	located_end	25139195
		estimated_end	25160195		
CH322-108A18	3R	1418772	1439772	estimated_end	1418772
		located_end	1439772		
CH322-108A20	2L	5104524	5125524	located_end	5104524
		estimated_end	5125524		
CH322-108A21	3L	666047	687047	estimated_end	666047
		located_end	687047		
CH322-108A22	3L	21424337	21445337	estimated_end	21424337
		located_end	21445337		

CH322-108A23	2L	1974657	1995657	located_end	1974657
		estimated_end	1995657		
CH322-108A24	2R	13736671	13757671	estimated_end	13736671
		located_end	13757671		
CH322-108B01	3LHet	186020	207020	located_end	186020
		estimated_end	207020		
CH322-108B02	3R	13361512	13382512	located_end	13361512
		estimated_end	13382512		
CH322-108B03	3R	20610122	20631122	located_end	20610122
		estimated_end	20631122		
CH322-108B04	3R	18134745	18155745	estimated_end	18134745
		located_end	18155745		
CH322-108B05	2R	8434721	8455721	estimated_end	8434721
		located_end	8455721		
CH322-108B06	2L	5051511	5072511	estimated_end	5051511
		located_end	5072511		
CH322-108B08	X	19649132	19670132	located_end	19649132
		estimated_end	19670132		
CH322-108B09	3R	19552047	19573047	estimated_end	19552047
		located_end	19573047		
CH322-108B10	X	641970	662970	estimated_end	641970
		located_end	662970		
CH322-108B11	3R	10397072	10418072	located_end	10397072
		estimated_end	10418072		
CH322-108B12	3R	166605	187605	located_end	166605
		estimated_end	187605		
CH322-108B14	3L	13775069	13796069	located_end	13775069
		estimated_end	13796069		
CH322-108B15	2L	15292887	15313887	estimated_end	15292887
		located_end	15313887		
CH322-108B17	3L	10293005	10314005	located_end	10293005
		estimated_end	10314005		
CH322-108B18	X	17087715	17108715	located_end	17087715
		estimated_end	17108715		
CH322-108B19	3R	7627024	7648024	estimated_end	7627024
		located_end	7648024		
CH322-108B20	2L	763807	784807	estimated_end	763807
		located_end	784807		
CH322-108B21	3L	5107070	5128070	estimated_end	5107070
		located_end	5128070		
CH322-108B22	3R	16751376	16772376	located_end	16751376
		estimated_end	16772376		
CH322-108B23	3L	22880335	22901335	estimated_end	22880335
		located_end	22901335		
CH322-108B24	3L	7792833	7813833	estimated_end	7792833
		located_end	7813833		
CH322-108C02	3L	8289042	8310042	located_end	8289042
		estimated_end	8310042		
CH322-108C03	2L	12017566	12038566	estimated_end	12017566
		located_end	12038566		
CH322-108C04	X	531884	552884	located_end	531884
		estimated_end	552884		
CH322-108C05	2L	19755585	19776585	estimated_end	19755585
		located_end	19776585		

CH322-108C06	3L	10984855	11005855	estimated_end	10984855
		located_end	11005855		
CH322-108C08	2L	205473	226473	located_end	205473
		estimated_end	226473		
CH322-108C09	3L	9627768	9648768	located_end	9627768
		estimated_end	9648768		
CH322-108C10	X	14995961	15016961	estimated_end	14995961
		located_end	15016961		
CH322-108C12	3R	16646381	16667381	located_end	16646381
		estimated_end	16667381		
CH322-108C13	3R	23773036	23794036	located_end	23773036
		estimated_end	23794036		
CH322-108C15	2L	2346169	2367169	estimated_end	2346169
		located_end	2367169		
CH322-108C17	3L	2048748	2069748	located_end	2048748
		estimated_end	2069748		
CH322-108C19	X	22177998	22198998	located_end	22177998
		estimated_end	22198998		
CH322-108C20	3L	2955145	2976145	estimated_end	2955145
		located_end	2976145		
CH322-108C24	3R	23996723	24017723	located_end	23996723
		estimated_end	24017723		
CH322-108D01	3R	477449	498449	estimated_end	477449
		located_end	498449		
CH322-108D02	X	16502105	16523105	estimated_end	16502105
		located_end	16523105		
CH322-108D03	3R	12546533	12567533	located_end	12546533
		estimated_end	12567533		
CH322-108D05	2R	3761022	3782022	estimated_end	3761022
		located_end	3782022		
CH322-108D06	3RHet	1043456	1064456	located_end	1043456
		estimated_end	1064456		
CH322-108D08	2R	16156880	16177880	estimated_end	16156880
		located_end	16177880		
CH322-108D10	2R	18500079	18521079	located_end	18500079
		estimated_end	18521079		
CH322-108D16	3R	27336513	27357513	located_end	27336513
		estimated_end	27357513		
CH322-108D18	3L	23867586	23888586	located_end	23867586
		estimated_end	23888586		
CH322-108D20	2R	17292215	17313215	located_end	17292215
		estimated_end	17313215		
CH322-108D21	2L	16548162	16569162	estimated_end	16548162
		located_end	16569162		
CH322-108E01	X	2305440	2326440	estimated_end	2305440
		located_end	2326440		
CH322-108E04	X	9121268	9142268	located_end	9121268
		estimated_end	9142268		
CH322-108E05	X	9472058	9493058	estimated_end	9472058
		located_end	9493058		
CH322-108E07	2L	20616126	20637126	located_end	20616126
		estimated_end	20637126		
CH322-108E08	X	18155057	18176057	estimated_end	18155057
		located_end	18176057		

CH322-108E09	2L	6311015	6332015	located_end	6311015
		estimated_end	6332015		
CH322-108E11	2L	737893	758893	estimated_end	737893
		located_end	758893		
CH322-108E13	3R	26078260	26099260	estimated_end	26078260
		located_end	26099260		
CH322-108E14	2R	3105207	3126207	located_end	3105207
		estimated_end	3126207		
CH322-108E17	2R	2569003	2590003	estimated_end	2569003
		located_end	2590003		
CH322-108E18	3R	14024372	14045372	estimated_end	14024372
		located_end	14045372		
CH322-108E19	3R	18261261	18282261	located_end	18261261
		estimated_end	18282261		
CH322-108E20	2R	4505743	4526743	estimated_end	4505743
		located_end	4526743		
CH322-108E21	3L	17388298	17409298	estimated_end	17388298
		located_end	17409298		
CH322-108E22	2R	5730567	5751567	located_end	5730567
		estimated_end	5751567		
CH322-108E23	2R	12890120	12911120	located_end	12890120
		estimated_end	12911120		
CH322-108E24	3L	8283162	8304162	estimated_end	8283162
		located_end	8304162		
CH322-108F02	2R	6226097	6247097	estimated_end	6226097
		located_end	6247097		
CH322-108F04	2L	16217658	16238658	estimated_end	16217658
		located_end	16238658		
CH322-108F06	2R	15044725	15065725	estimated_end	15044725
		located_end	15065725		
CH322-108F07	3L	8530485	8551485	located_end	8530485
		estimated_end	8551485		
CH322-108F09	2R	5886883	5907883	estimated_end	5886883
		located_end	5907883		
CH322-108F10	3R	16944009	16965009	estimated_end	16944009
		located_end	16965009		
CH322-108F13	3L	8907507	8928507	located_end	8907507
		estimated_end	8928507		
CH322-108F15	3L	7157899	7178899	estimated_end	7157899
		located_end	7178899		
CH322-108F16	2L	6842732	6863732	estimated_end	6842732
		located_end	6863732		
CH322-108F17	2R	5341724	5362724	estimated_end	5341724
		located_end	5362724		
CH322-108F20	2L	8855771	8876771	estimated_end	8855771
		located_end	8876771		
CH322-108F21	3L	4513995	4534995	estimated_end	4513995
		located_end	4534995		
CH322-108F22	3L	21436709	21457709	located_end	21436709
		estimated_end	21457709		
CH322-108F24	X	10515996	10536996	estimated_end	10515996
		located_end	10536996		
CH322-108G05	3L	10060693	10081693	located_end	10060693
		estimated_end	10081693		

CH322-108G06	3L	146835	167835	estimated_end	146835
		located_end	167835		
CH322-108G07	2R	20528721	20549721	estimated_end	20528721
		located_end	20549721		
CH322-108G10	2L	13559073	13580073	estimated_end	13559073
		located_end	13580073		
CH322-108G13	2R	760219	781219	estimated_end	760219
		located_end	781219		
CH322-108G15	ArmU	8853795	8874795	located_end	8853795
		estimated_end	8874795		
CH322-108G16	3R	10504024	10525024	located_end	10504024
		estimated_end	10525024		
CH322-108G17	3L	1820946	1841946	estimated_end	1820946
		located_end	1841946		
CH322-108G19	X	7991101	8012101	located_end	7991101
		estimated_end	8012101		
CH322-108G21	3R	12915061	12936061	estimated_end	12915061
		located_end	12936061		
CH322-108G23	2L	3985378	4006378	located_end	3985378
		estimated_end	4006378		
CH322-108G24	3R	1537096	1558096	estimated_end	1537096
		located_end	1558096		
CH322-108H05	3L	1251646	1272646	estimated_end	1251646
		located_end	1272646		
CH322-108H07	X	14954808	14975808	estimated_end	14954808
		located_end	14975808		
CH322-108H08	2L	5341518	5362518	located_end	5341518
		estimated_end	5362518		
CH322-108H12	3R	21097678	21118678	located_end	21097678
		estimated_end	21118678		
CH322-108H16	2R	9119599	9140599	estimated_end	9119599
		located_end	9140599		
CH322-108H20	3LHet	231937	252937	estimated_end	231937
		located_end	252937		
CH322-108H24	2L	7302609	7323609	located_end	7302609
		estimated_end	7323609		
CH322-108I04	3R	6607628	6628628	estimated_end	6607628
		located_end	6628628		
CH322-108I05	X	18974839	18995839	estimated_end	18974839
		located_end	18995839		
CH322-108I07	3R	23002310	23023310	estimated_end	23002310
		located_end	23023310		
CH322-108I10	2R	1885960	1906960	located_end	1885960
		estimated_end	1906960		
CH322-108I14	3L	15978553	15999553	estimated_end	15978553
		located_end	15999553		
CH322-108I15	3R	22749590	22770590	located_end	22749590
		estimated_end	22770590		
CH322-108I20	4	376674	397674	located_end	376674
		estimated_end	397674		
CH322-108I21	3R	508286	529286	estimated_end	508286
		located_end	529286		
CH322-108I22	3L	17382626	17403626	located_end	17382626
		estimated_end	17403626		

CH322-108J05	2L	10788150	10809150	estimated_end	10788150
		located_end	10809150		
CH322-108J06	X	9953425	9974425	estimated_end	9953425
		located_end	9974425		
CH322-108J07	3R	7804004	7825004	estimated_end	7804004
		located_end	7825004		
CH322-108J14	3R	19186486	19207486	located_end	19186486
		estimated_end	19207486		
CH322-108J15	2R	20776640	20797640	located_end	20776640
		estimated_end	20797640		
CH322-108J17	2L	217040	238040	estimated_end	217040
		located_end	238040		
CH322-108J21	3R	5328260	5349260	estimated_end	5328260
		located_end	5349260		
CH322-108J23	3L	20134250	20155250	estimated_end	20134250
		located_end	20155250		
CH322-108J24	2L	11005914	11026914	estimated_end	11005914
		located_end	11026914		
CH322-108K11	2R	18890600	18911600	located_end	18890600
		estimated_end	18911600		
CH322-108K21	3R	2840529	2861529	estimated_end	2840529
		located_end	2861529		
CH322-108K22	X	1821701	1842701	located_end	1821701
		estimated_end	1842701		
CH322-108K23	2L	4536549	4557549	estimated_end	4536549
		located_end	4557549		
CH322-108K24	2RHet	2578535	2599535	estimated_end	2578535
		located_end	2599535		
CH322-108L23	3L	18819756	18840756	located_end	18819756
		estimated_end	18840756		
CH322-108M03	X	5580247	5601247	located_end	5580247
		estimated_end	5601247		
CH322-108N09	2R	18516578	18537578	located_end	18516578
		estimated_end	18537578		
CH322-108O03	X	15617354	15638354	estimated_end	15617354
		located_end	15638354		
CH322-108O04	X	5995840	6016840	located_end	5995840
		estimated_end	6016840		
CH322-108P04	2R	1987974	2008974	estimated_end	1987974
		located_end	2008974		
CH322-108P19	2L	4996431	5017431	estimated_end	4996431
		located_end	5017431		
CH322-108P21	3R	21848497	21869497	located_end	21848497
		estimated_end	21869497		
CH322-108P24	X	5476563	5497563	located_end	5476563
		estimated_end	5497563		
CH322-109A01	3L	18842689	18863689	located_end	18842689
		estimated_end	18863689		
CH322-109A02	2R	17961393	17982393	located_end	17961393
		estimated_end	17982393		
CH322-109A03	2R	20657029	20678029	located_end	20657029
		estimated_end	20678029		
CH322-109A05	ArmU	2210939	2231939	estimated_end	2210939
		located_end	2231939		

CH322-109A06	X	126019	147019	estimated_end	126019
		located_end	147019		
CH322-109A07	3R	26450834	26471834	estimated_end	26450834
		located_end	26471834		
CH322-109A08	2R	15183284	15204284	estimated_end	15183284
		located_end	15204284		
CH322-109A09	3L	14373820	14394820	estimated_end	14373820
		located_end	14394820		
CH322-109A10	2L	9301838	9322838	estimated_end	9301838
		located_end	9322838		
CH322-109A13	3L	12667255	12688255	estimated_end	12667255
		located_end	12688255		
CH322-109A14	3L	15584823	15605823	located_end	15584823
		estimated_end	15605823		
CH322-109A15	3L	3155403	3176403	located_end	3155403
		estimated_end	3176403		
CH322-109A16	2L	8864434	8885434	estimated_end	8864434
		located_end	8885434		
CH322-109A17	ArmU	6175573	6196573	located_end	6175573
		estimated_end	6196573		
CH322-109A18	3L	20633149	20654149	located_end	20633149
		estimated_end	20654149		
CH322-109A19	2L	8283885	8304885	located_end	8283885
		estimated_end	8304885		
CH322-109A20	X	19407141	19428141	estimated_end	19407141
		located_end	19428141		
CH322-109A21	X	494757	515757	located_end	494757
		estimated_end	515757		
CH322-109A22	3R	5357591	5378591	located_end	5357591
		estimated_end	5378591		
CH322-109B01	X	18354427	18375427	estimated_end	18354427
		located_end	18375427		
CH322-109B02	3L	7605171	7626171	estimated_end	7605171
		located_end	7626171		
CH322-109B04	ArmU	36333 57333	located_end 36333	estimated_end	57333
CH322-109B09	2L	20758159	20779159	located_end	20758159
		estimated_end	20779159		
CH322-109B11	3R	12467166	12488166	located_end	12467166
		estimated_end	12488166		
CH322-109B12	2L	743328	764328	estimated_end	743328
		located_end	764328		
CH322-109B13	3L	5015409	5036409	located_end	5015409
		estimated_end	5036409		
CH322-109B14	2L	2015713	2036713	estimated_end	2015713
		located_end	2036713		
CH322-109B16	2L	13196739	13217739	estimated_end	13196739
		located_end	13217739		
CH322-109B17	3R	4602133	4623133	located_end	4602133
		estimated_end	4623133		
CH322-109B18	2L	880651	901651	located_end	880651
		estimated_end	901651		
CH322-109B19	3R	17495312	17516312	estimated_end	17495312
		located_end	17516312		

CH322-109B20	X	5777099	5798099	located_end	5777099
		estimated_end	5798099		
CH322-109B22	3R	16831947	16852947	located_end	16831947
		estimated_end	16852947		
CH322-109B24	2L	11375038	11396038	located_end	11375038
		estimated_end	11396038		
CH322-109C01	2L	22320837	22341837	located_end	22320837
		estimated_end	22341837		
CH322-109C02	3LHet	590506	611506	estimated_end	590506
		located_end	611506		
CH322-109C03	3LHet	232382	253382	located_end	232382
		estimated_end	253382		
CH322-109C04	2R	20724967	20745967	located_end	20724967
		estimated_end	20745967		
CH322-109C05	X	9739673	9760673	estimated_end	9739673
		located_end	9760673		
CH322-109C06	X	21230988	21251988	estimated_end	21230988
		located_end	21251988		
CH322-109C08	3L	12696866	12717866	located_end	12696866
		estimated_end	12717866		
CH322-109C09	2RHet	92878 113878		located_end	92878 estimated_end
					113878
CH322-109C10	3L	2464693	2485693	estimated_end	2464693
		located_end	2485693		
CH322-109C13	3L	19598177	19619177	located_end	19598177
		estimated_end	19619177		
CH322-109C14	2L	10430055	10451055	estimated_end	10430055
		located_end	10451055		
CH322-109C16	X	6421684	6442684	located_end	6421684
		estimated_end	6442684		
CH322-109C18	3R	5251689	5272689	estimated_end	5251689
		located_end	5272689		
CH322-109C22	3R	21091001	21112001	located_end	21091001
		estimated_end	21112001		
CH322-109C23	2RHet	105416	126416	estimated_end	105416
		located_end	126416		
CH322-109C24	3R	20469672	20490672	estimated_end	20469672
		located_end	20490672		
CH322-109D01	3R	25142319	25163319	estimated_end	25142319
		located_end	25163319		
CH322-109D02	2L	4526341	4547341	located_end	4526341
		estimated_end	4547341		
CH322-109D04	2R	4834296	4855296	estimated_end	4834296
		located_end	4855296		
CH322-109D05	2L	1802933	1823933	estimated_end	1802933
		located_end	1823933		
CH322-109D07	2R	10671869	10692869	estimated_end	10671869
		located_end	10692869		
CH322-109D08	2R	2092855	2113855	estimated_end	2092855
		located_end	2113855		
CH322-109D10	3R	3169768	3190768	located_end	3169768
		estimated_end	3190768		
CH322-109D13	X	9950148	9971148	located_end	9950148
		estimated_end	9971148		

CH322-109D15	2L	21644792	21665792	located_end	21644792
		estimated_end	21665792		
CH322-109D16	2R	18574920	18595920	located_end	18574920
		estimated_end	18595920		
CH322-109D18	3R	27310462	27331462	located_end	27310462
		estimated_end	27331462		
CH322-109D20	2L	7772512	7793512	located_end	7772512
		estimated_end	7793512		
CH322-109D21	4	288657	309657	located_end	288657
		estimated_end	309657		
CH322-109D22	3L	4842074	4863074	located_end	4842074
		estimated_end	4863074		
CH322-109D23	3L	22864051	22885051	estimated_end	22864051
		located_end	22885051		
CH322-109D24	3L	11704848	11725848	located_end	11704848
		estimated_end	11725848		
CH322-109E01	3L	17654954	17675954	estimated_end	17654954
		located_end	17675954		
CH322-109E03	2L	15104261	15125261	located_end	15104261
		estimated_end	15125261		
CH322-109E04	3R	23888722	23909722	estimated_end	23888722
		located_end	23909722		
CH322-109E05	4	440190	461190	estimated_end	440190
		located_end	461190		
CH322-109E06	2L	11005927	11026927	located_end	11005927
		estimated_end	11026927		
CH322-109E07	3R	11953092	11974092	located_end	11953092
		estimated_end	11974092		
CH322-109E08	3R	17139872	17160872	located_end	17139872
		estimated_end	17160872		
CH322-109E09	2R	10519405	10540405	estimated_end	10519405
		located_end	10540405		
CH322-109E10	2R	8237279	8258279	estimated_end	8237279
		located_end	8258279		
CH322-109E11	3R	6712839	6733839	estimated_end	6712839
		located_end	6733839		
CH322-109E12	3L	5580629	5601629	located_end	5580629
		estimated_end	5601629		
CH322-109E14	X	4537178	4558178	estimated_end	4537178
		located_end	4558178		
CH322-109E16	2L	7030795	7051795	estimated_end	7030795
		located_end	7051795		
CH322-109E19	X	14952342	14973342	estimated_end	14952342
		located_end	14973342		
CH322-109E20	2R	9846510	9867510	located_end	9846510
		estimated_end	9867510		
CH322-109E21	2R	15128838	15149838	located_end	15128838
		estimated_end	15149838		
CH322-109E22	2R	12090400	12111400	located_end	12090400
		estimated_end	12111400		
CH322-109E23	3R	13574867	13595867	estimated_end	13574867
		located_end	13595867		
CH322-109E24	3L	362105	383105	estimated_end	362105
		located_end	383105		

CH322-109F01	3L	15215006	15236006	located_end	15215006
		estimated_end	15236006		
CH322-109F03	X	19056557	19077557	estimated_end	19056557
		located_end	19077557		
CH322-109F04	2L	8885430	8906430	estimated_end	8885430
		located_end	8906430		
CH322-109F05	2L	2032998	2053998	located_end	2032998
		estimated_end	2053998		
CH322-109F07	2R	9437643	9458643	located_end	9437643
		estimated_end	9458643		
CH322-109F08	3L	339646	360646	estimated_end	339646
		located_end	360646		
CH322-109F10	2R	19162414	19183414	located_end	19162414
		estimated_end	19183414		
CH322-109F11	3L	20848028	20869028	estimated_end	20848028
		located_end	20869028		
CH322-109F12	2R	9014699	9035699	estimated_end	9014699
		located_end	9035699		
CH322-109F14	3LHet	383911	404911	estimated_end	383911
		located_end	404911		
CH322-109F15	3R	11320474	11341474	located_end	11320474
		estimated_end	11341474		
CH322-109F18	3L	10015456	10036456	located_end	10015456
		estimated_end	10036456		
CH322-109F19	3R	22501380	22522380	located_end	22501380
		estimated_end	22522380		
CH322-109F21	4	288358	309358	located_end	288358
		estimated_end	309358		
CH322-109G01	2L	10446737	10467737	located_end	10446737
		estimated_end	10467737		
CH322-109G02	3RHet	550239	571239	estimated_end	550239
		located_end	571239		
CH322-109G04	2R	10621128	10642128	estimated_end	10621128
		located_end	10642128		
CH322-109G05	3R	407439	428439	estimated_end	407439
		located_end	428439		
CH322-109G06	3R	14609734	14630734	located_end	14609734
		estimated_end	14630734		
CH322-109G07	X	3187107	3208107	estimated_end	3187107
		located_end	3208107		
CH322-109G08	3R	13478118	13499118	located_end	13478118
		estimated_end	13499118		
CH322-109G09	2L	14489647	14510647	located_end	14489647
		estimated_end	14510647		
CH322-109G10	3R	5807833	5828833	estimated_end	5807833
		located_end	5828833		
CH322-109G14	3R	3858134	3879134	located_end	3858134
		estimated_end	3879134		
CH322-109G15	3R	25119880	25140880	located_end	25119880
		estimated_end	25140880		
CH322-109G16	X	14187361	14208361	estimated_end	14187361
		located_end	14208361		
CH322-109G17	3R	421670	442670	located_end	421670
		estimated_end	442670		

CH322-109G18	2R	11877672	11898672	estimated_end	11877672
		located_end	11898672		
CH322-109G20	2R	11402890	11423890	located_end	11402890
		estimated_end	11423890		
CH322-109G21	X	20489322	20510322	estimated_end	20489322
		located_end	20510322		
CH322-109G23	2R	18683217	18704217	estimated_end	18683217
		located_end	18704217		
CH322-109H05	3L	15052143	15073143	located_end	15052143
		estimated_end	15073143		
CH322-109H06	3L	21158348	21179348	estimated_end	21158348
		located_end	21179348		
CH322-109H07	X	7856907	7877907	located_end	7856907
		estimated_end	7877907		
CH322-109H08	2L	11447994	11468994	estimated_end	11447994
		located_end	11468994		
CH322-109H09	3R	27268635	27289635	estimated_end	27268635
		located_end	27289635		
CH322-109H10	2L	12644852	12665852	estimated_end	12644852
		located_end	12665852		
CH322-109H12	3R	16084855	16105855	estimated_end	16084855
		located_end	16105855		
CH322-109H14	4	1012584	1033584	located_end	1012584
		estimated_end	1033584		
CH322-109H15	2R	6124754	6145754	estimated_end	6124754
		located_end	6145754		
CH322-109H17	2L	5245972	5266972	located_end	5245972
		estimated_end	5266972		
CH322-109H18	2L	18716338	18737338	located_end	18716338
		estimated_end	18737338		
CH322-109H19	2L	2995480	3016480	located_end	2995480
		estimated_end	3016480		
CH322-109H20	3L	20266138	20287138	located_end	20266138
		estimated_end	20287138		
CH322-109H23	3L	1758493	1779493	estimated_end	1758493
		located_end	1779493		
CH322-109H24	3R	13401415	13422415	estimated_end	13401415
		located_end	13422415		
CH322-109I03	ArmU	603500	624500	estimated_end	603500
		located_end	624500		
CH322-109I04	3L	14607973	14628973	located_end	14607973
		estimated_end	14628973		
CH322-109I05	X	1551190	1572190	located_end	1551190
		estimated_end	1572190		
CH322-109I08	2R	15916588	15937588	located_end	15916588
		estimated_end	15937588		
CH322-109I09	2L	22323717	22344717	located_end	22323717
		estimated_end	22344717		
CH322-109I11	3L	12137973	12158973	located_end	12137973
		estimated_end	12158973		
CH322-109I12	3L	5473602	5494602	located_end	5473602
		estimated_end	5494602		
CH322-109I14	2R	14185177	14206177	located_end	14185177
		estimated_end	14206177		

CH322-109I15	3R	7757266	7778266	located_end	7757266
		estimated_end	7778266		
CH322-109I18	3R	25844346	25865346	located_end	25844346
		estimated_end	25865346		
CH322-109I19	3LHet	2455309	2476309	located_end	2455309
		estimated_end	2476309		
CH322-109I22	3R	13943629	13964629	estimated_end	13943629
		located_end	13964629		
CH322-109I24	3L	20078642	20099642	estimated_end	20078642
		located_end	20099642		
CH322-109J01	3R	6645359	6666359	located_end	6645359
		estimated_end	6666359		
CH322-109J03	3L	19466003	19487003	estimated_end	19466003
		located_end	19487003		
CH322-109J04	2R	10557507	10578507	located_end	10557507
		estimated_end	10578507		
CH322-109J05	3R	15327915	15348915	located_end	15327915
		estimated_end	15348915		
CH322-109J06	3R	2944421	2965421	located_end	2944421
		estimated_end	2965421		
CH322-109J07	2R	10430375	10451375	located_end	10430375
		estimated_end	10451375		
CH322-109J08	2R	471127	492127	estimated_end	471127
		located_end	492127		
CH322-109J12	2L	1748465	1769465	located_end	1748465
		estimated_end	1769465		
CH322-109J15	3L	8588377	8609377	located_end	8588377
		estimated_end	8609377		
CH322-109J17	3R	20896219	20917219	estimated_end	20896219
		located_end	20917219		
CH322-109J18	2L	12679859	12700859	located_end	12679859
		estimated_end	12700859		
CH322-109J19	2L	5041001	5062001	located_end	5041001
		estimated_end	5062001		
CH322-109J20	2R	20059710	20080710	located_end	20059710
		estimated_end	20080710		
CH322-109J21	2L	18788037	18809037	located_end	18788037
		estimated_end	18809037		
CH322-109J22	X	12248999	12269999	located_end	12248999
		estimated_end	12269999		
CH322-109J23	3L	18666976	18687976	estimated_end	18666976
		located_end	18687976		
CH322-109J24	3R	18066415	18087415	estimated_end	18066415
		located_end	18087415		
CH322-109K01	3R	12097597	12118597	estimated_end	12097597
		located_end	12118597		
CH322-109K02	3L	13108720	13129720	estimated_end	13108720
		located_end	13129720		
CH322-109K04	3L	4226681	4247681	estimated_end	4226681
		located_end	4247681		
CH322-109K05	3R	19488564	19509564	located_end	19488564
		estimated_end	19509564		
CH322-109K06	3R	170071	191071	located_end	170071
		estimated_end	191071		

CH322-109K07	3R	21621163	21642163	estimated_end	21621163
		located_end	21642163		
CH322-109K08	3L	21108204	21129204	located_end	21108204
		estimated_end	21129204		
CH322-109K10	2R	398059	419059	located_end	398059
		estimated_end	419059		
CH322-109K11	2R	17445408	17466408	located_end	17445408
		estimated_end	17466408		
CH322-109K13	3L	19996328	20017328	located_end	19996328
		estimated_end	20017328		
CH322-109K14	X	16443421	16464421	located_end	16443421
		estimated_end	16464421		
CH322-109K15	3R	7637939	7658939	estimated_end	7637939
		located_end	7658939		
CH322-109K16	3R	12221220	12242220	located_end	12221220
		estimated_end	12242220		
CH322-109K17	3L	22679609	22700609	located_end	22679609
		estimated_end	22700609		
CH322-109K19	3R	27316686	27337686	estimated_end	27316686
		located_end	27337686		
CH322-109K23	3LHet	1050509	1071509	located_end	1050509
		estimated_end	1071509		
CH322-109K24	3R	18421820	18442820	estimated_end	18421820
		located_end	18442820		
CH322-109L01	3R	18594762	18615762	located_end	18594762
		estimated_end	18615762		
CH322-109L02	3LHet	232021	253021	estimated_end	232021
		located_end	253021		
CH322-109L03	X	5492916	5513916	located_end	5492916
		estimated_end	5513916		
CH322-109L04	X	16654543	16675543	located_end	16654543
		estimated_end	16675543		
CH322-109L06	3RHet	1909144	1930144	located_end	1909144
		estimated_end	1930144		
CH322-109L07	ArmU	7609269	7630269	estimated_end	7609269
		located_end	7630269		
CH322-109L08	3L	4441155	4462155	estimated_end	4441155
		located_end	4462155		
CH322-109L10	3L	17254259	17275259	estimated_end	17254259
		located_end	17275259		
CH322-109L11	3L	17083671	17104671	estimated_end	17083671
		located_end	17104671		
CH322-109L14	3R	5823908	5844908	estimated_end	5823908
		located_end	5844908		
CH322-109L15	2L	9555891	9576891	estimated_end	9555891
		located_end	9576891		
CH322-109L16	3L	13032741	13053741	located_end	13032741
		estimated_end	13053741		
CH322-109L20	2L	20693485	20714485	estimated_end	20693485
		located_end	20714485		
CH322-109L21	2L	7032270	7053270	located_end	7032270
		estimated_end	7053270		
CH322-109L22	3LHet	460752	481752	estimated_end	460752
		located_end	481752		

CH322-109L23	3L	6365813	6386813	located_end	6365813
		estimated_end	6386813		
CH322-109L24	2L	373966	394966	located_end	373966
		estimated_end	394966		
CH322-109M02	3R	933256	954256	located_end	933256
		estimated_end	954256		
CH322-109M03	3L	6012792	6033792	located_end	6012792
		estimated_end	6033792		
CH322-109M04	3R	21473901	21494901	estimated_end	21473901
		located_end	21494901		
CH322-109M06	3R	1663656	1684656	estimated_end	1663656
		located_end	1684656		
CH322-109M07	3L	20180005	20201005	estimated_end	20180005
		located_end	20201005		
CH322-109M09	2R	4142952	4163952	estimated_end	4142952
		located_end	4163952		
CH322-109M10	3R	5606122	5627122	estimated_end	5606122
		located_end	5627122		
CH322-109M11	X	12680202	12701202	estimated_end	12680202
		located_end	12701202		
CH322-109M12	3L	9180096	9201096	estimated_end	9180096
		located_end	9201096		
CH322-109M15	2L	696213	717213	estimated_end	696213
		located_end	717213		
CH322-109M16	3R	18983962	19004962	located_end	18983962
		estimated_end	19004962		
CH322-109M17	2R	19351747	19372747	estimated_end	19351747
		located_end	19372747		
CH322-109M18	2L	16777125	16798125	located_end	16777125
		estimated_end	16798125		
CH322-109M19	3R	20141167	20162167	estimated_end	20141167
		located_end	20162167		
CH322-109M21	2R	10927980	10948980	located_end	10927980
		estimated_end	10948980		
CH322-109M23	2L	22448348	22469348	estimated_end	22448348
		located_end	22469348		
CH322-109M24	2L	1942521	1963521	estimated_end	1942521
		located_end	1963521		
CH322-109N01	3R	9707222	9728222	located_end	9707222
		estimated_end	9728222		
CH322-109N02	2L	13619089	13640089	estimated_end	13619089
		located_end	13640089		
CH322-109N04	2L	6184554	6205554	located_end	6184554
		estimated_end	6205554		
CH322-109N05	3R	21133499	21154499	located_end	21133499
		estimated_end	21154499		
CH322-109N06	3R	1658405	1679405	estimated_end	1658405
		located_end	1679405		
CH322-109N07	3L	12968243	12989243	located_end	12968243
		estimated_end	12989243		
CH322-109N08	2L	21228392	21249392	estimated_end	21228392
		located_end	21249392		
CH322-109N09	X	20493667	20514667	located_end	20493667
		estimated_end	20514667		

CH322-109N10	X	20404457	20425457	estimated_end	20404457
		located_end	20425457		
CH322-109N11	2L	9550497	9571497	located_end	9550497
		estimated_end	9571497		
CH322-109N12	2L	1161660	1182660	located_end	1161660
		estimated_end	1182660		
CH322-109N16	X	9131538	9152538	located_end	9131538
		estimated_end	9152538		
CH322-109N17	2R	16399896	16420896	estimated_end	16399896
		located_end	16420896		
CH322-109N18	3R	1334532	1355532	estimated_end	1334532
		located_end	1355532		
CH322-109N21	3L	10173937	10194937	estimated_end	10173937
		located_end	10194937		
CH322-109N23	3R	5872673	5893673	located_end	5872673
		estimated_end	5893673		
CH322-109N24	2L	6137675	6158675	located_end	6137675
		estimated_end	6158675		
CH322-109O02	X	2609370	2630370	located_end	2609370
		estimated_end	2630370		
CH322-109O04	2R	16423776	16444776	estimated_end	16423776
		located_end	16444776		
CH322-109O05	2L	4779778	4800778	estimated_end	4779778
		located_end	4800778		
CH322-109O06	X	3986348	4007348	located_end	3986348
		estimated_end	4007348		
CH322-109O07	2L	2969408	2990408	estimated_end	2969408
		located_end	2990408		
CH322-109O08	2R	6247140	6268140	estimated_end	6247140
		located_end	6268140		
CH322-109O11	2L	20740349	20761349	estimated_end	20740349
		located_end	20761349		
CH322-109O12	2RHet	74163 95163	74163 95163	located_end	74163 95163
		estimated_end	95163		
CH322-109O13	2L	1497539	1518539	located_end	1497539
		estimated_end	1518539		
CH322-109O16	X	3956112	3977112	estimated_end	3956112
		located_end	3977112		
CH322-109O18	3L	14614669	14635669	located_end	14614669
		estimated_end	14635669		
CH322-109O19	X	3667487	3688487	located_end	3667487
		estimated_end	3688487		
CH322-109O21	3L	10929998	10950998	located_end	10929998
		estimated_end	10950998		
CH322-109O24	X	2560405	2581405	located_end	2560405
		estimated_end	2581405		
CH322-109P01	3LHet	2518320	2539320	located_end	2518320
		estimated_end	2539320		
CH322-109P02	3L	5112276	5133276	estimated_end	5112276
		located_end	5133276		
CH322-109P03	3L	9793901	9814901	located_end	9793901
		estimated_end	9814901		
CH322-109P04	3L	17598232	17619232	estimated_end	17598232
		located_end	17619232		

CH322-109P09	X	3668475	3689475	located_end	3668475
		estimated_end	3689475		
CH322-109P13	2R	16068126	16089126	estimated_end	16068126
		located_end	16089126		
CH322-109P17	3R	21324659	21345659	located_end	21324659
		estimated_end	21345659		
CH322-109P18	3R	23445926	23466926	located_end	23445926
		estimated_end	23466926		
CH322-109P19	3L	5666221	5687221	located_end	5666221
		estimated_end	5687221		
CH322-109P21	3RHet	1362240	1383240	estimated_end	1362240
		located_end	1383240		
CH322-109P23	3R	8053720	8074720	estimated_end	8053720
		located_end	8074720		
CH322-109P24	3R	17000235	17021235	located_end	17000235
		estimated_end	17021235		
CH322-10A06	2R	15659981	15680981	estimated_end	15659981
		located_end	15680981		
CH322-10A08	2R	2508454	2529454	located_end	2508454
		estimated_end	2529454		
CH322-10A14	3R	5884927	5905927	estimated_end	5884927
		located_end	5905927		
CH322-10A17	2L	3066444	3087444	located_end	3066444
		estimated_end	3087444		
CH322-10A19	2L	12919812	12940812	located_end	12919812
		estimated_end	12940812		
CH322-10B01	3R	21698760	21719760	located_end	21698760
		estimated_end	21719760		
CH322-10B04	3LHet	1245948	1266948	estimated_end	1245948
		located_end	1266948		
CH322-10B16	2RHet	195200	216200	located_end	195200
		estimated_end	216200		
CH322-10C01	3R	22768678	22789678	located_end	22768678
		estimated_end	22789678		
CH322-10C02	X	8187028	8208028	estimated_end	8187028
		located_end	8208028		
CH322-10C08	2RHet	3060781	3081781	located_end	3060781
		estimated_end	3081781		
CH322-10C12	3L	17313230	17334230	estimated_end	17313230
		located_end	17334230		
CH322-10C14	2RHet	129459	150459	estimated_end	129459
		located_end	150459		
CH322-10C20	ArmU	9802751	9823751	estimated_end	9802751
		located_end	9823751		
CH322-10C23	3RHet	609078	630078	estimated_end	609078
		located_end	630078		
CH322-10C24	3L	11468502	11489502	located_end	11468502
		estimated_end	11489502		
CH322-10D02	2L	8123596	8144596	estimated_end	8123596
		located_end	8144596		
CH322-10D09	X	13273530	13294530	located_end	13273530
		estimated_end	13294530		
CH322-10D24	2L	2331921	2352921	located_end	2331921
		estimated_end	2352921		

CH322-10E02 X	8713344	8734344	located_end	8713344
estimated_end	8734344			
CH322-10E07 3L	6885127	6906127	estimated_end	6885127
located_end	6906127			
CH322-10E08 2L	1504584	1525584	located_end	1504584
estimated_end	1525584			
CH322-10E24 3L	1151175	1172175	estimated_end	1151175
located_end	1172175			
CH322-10F03 2R	19893042	19914042	located_end	19893042
estimated_end	19914042			
CH322-10F05 3R	22406883	22427883	located_end	22406883
estimated_end	22427883			
CH322-10F07 3L	23336939	23357939	located_end	23336939
estimated_end	23357939			
CH322-10F14 2R	5687744	5708744	located_end	5687744
estimated_end	5708744			
CH322-10F16 3R	15628826	15649826	located_end	15628826
estimated_end	15649826			
CH322-10F19 3LHet	2285117	2306117	located_end	2285117
estimated_end	2306117			
CH322-10F21 3R	1381172	1402172	located_end	1381172
estimated_end	1402172			
CH322-10F22 2L	6907169	6928169	estimated_end	6907169
located_end	6928169			
CH322-10G01 2R	6337185	6358185	estimated_end	6337185
located_end	6358185			
CH322-10G04 3L	14469912	14490912	estimated_end	14469912
located_end	14490912			
CH322-10G05 2R	14467752	14488752	estimated_end	14467752
located_end	14488752			
CH322-10G08 2L	1085867	1106867	estimated_end	1085867
located_end	1106867			
CH322-10H02 X	971104	992104	estimated_end	971104
located_end	992104			
CH322-10H03 3R	9659508	9680508	estimated_end	9659508
located_end	9680508			
CH322-10H04 3L	8252272	8273272	located_end	8252272
estimated_end	8273272			
CH322-10H06 2RHet	1722502	1743502	estimated_end	1722502
located_end	1743502			
CH322-10H07 2R	5945630	5966630	estimated_end	5945630
located_end	5966630			
CH322-10H08 3RHet	214743	235743	estimated_end	214743
located_end	235743			
CH322-10H09 2L	4567520	4588520	estimated_end	4567520
located_end	4588520			
CH322-10H11 3L	2076755	2097755	estimated_end	2076755
located_end	2097755			
CH322-10H15 X	7443109	7464109	estimated_end	7443109
located_end	7464109			
CH322-10H18 2R	11412283	11433283	located_end	11412283
estimated_end	11433283			
CH322-10H19 3RHet	261253	282253	estimated_end	261253
located_end	282253			

CH322-10H22 3L	14112139	14133139	estimated_end	14112139
	located_end	14133139		
CH322-10H24 2R	20984240	21005240	estimated_end	20984240
	located_end	21005240		
CH322-10I01 3L	22237317	22258317	located_end	22237317
	estimated_end	22258317		
CH322-10I04 2L	2711047	2732047	located_end	2711047
	estimated_end	2732047		
CH322-10I05 2RHet	2236208	2257208	located_end	2236208
	estimated_end	2257208		
CH322-10I08 2L	16507038	16528038	estimated_end	16507038
	located_end	16528038		
CH322-10I12 3L	23608491	23629491	located_end	23608491
	estimated_end	23629491		
CH322-10I22 2R	3197842	3218842	estimated_end	3197842
	located_end	3218842		
CH322-10J01 3L	4453368	4474368	estimated_end	4453368
	located_end	4474368		
CH322-10J02 3L	10965860	10986860	estimated_end	10965860
	located_end	10986860		
CH322-10J08 3L	18718041	18739041	estimated_end	18718041
	located_end	18739041		
CH322-10J10 X	21953977	21974977	estimated_end	21953977
	located_end	21974977		
CH322-10J12 3R	11140185	11161185	estimated_end	11140185
	located_end	11161185		
CH322-10J13 3L	15293518	15314518	estimated_end	15293518
	located_end	15314518		
CH322-10J17 3L	16763263	16784263	located_end	16763263
	estimated_end	16784263		
CH322-10J19 3L	5186722	5207722	estimated_end	5186722
	located_end	5207722		
CH322-10J23 ArmU	147588	168588	estimated_end	147588
	located_end	168588		
CH322-10K07 3R	8290049	8311049	located_end	8290049
	estimated_end	8311049		
CH322-10K08 3R	26893994	26914994	estimated_end	26893994
	located_end	26914994		
CH322-10K10 3L	4933384	4954384	located_end	4933384
	estimated_end	4954384		
CH322-10K24 X	19162493	19183493	located_end	19162493
	estimated_end	19183493		
CH322-10L04 2RHet	1366796	1387796	located_end	1366796
	estimated_end	1387796		
CH322-10L05 2R	18596100	18617100	estimated_end	18596100
	located_end	18617100		
CH322-10L09 3L	11124273	11145273	estimated_end	11124273
	located_end	11145273		
CH322-10L12 X	19616976	19637976	located_end	19616976
	estimated_end	19637976		
CH322-10L15 2L	4369560	4390560	located_end	4369560
	estimated_end	4390560		
CH322-10L16 ArmU	3112966	3133966	estimated_end	3112966
	located_end	3133966		

CH322-10L17 2L	6603901	6624901	estimated_end	6603901
	located_end	6624901		
CH322-10M01 3R	21186235	21207235	estimated_end	21186235
	located_end	21207235		
CH322-10M05 3L	1215585	1236585	located_end	1215585
	estimated_end	1236585		
CH322-10M08 2L	22008050	22029050	estimated_end	22008050
	located_end	22029050		
CH322-10M09 3R	4144507	4165507	located_end	4144507
	estimated_end	4165507		
CH322-10M24 ArmU	1575065	1596065	estimated_end	1575065
	located_end	1596065		
CH322-10N01 ArmU	1549267	1570267	estimated_end	1549267
	located_end	1570267		
CH322-10N02 3L	22437880	22458880	estimated_end	22437880
	located_end	22458880		
CH322-10N12 2R	16211113	16232113	located_end	16211113
	estimated_end	16232113		
CH322-10N15 2RHet	2799815	2820815	located_end	2799815
	estimated_end	2820815		
CH322-10N22 2R	846875	867875	located_end	846875
	estimated_end	867875		
CH322-10N24 2R	2909880	2930880	estimated_end	2909880
	located_end	2930880		
CH322-10O13 2R	5245642	5266642	estimated_end	5245642
	located_end	5266642		
CH322-10O20 3R	8774588	8795588	located_end	8774588
	estimated_end	8795588		
CH322-10O23 3R	7520724	7541724	estimated_end	7520724
	located_end	7541724		
CH322-10P07 X	21016091	21037091	located_end	21016091
	estimated_end	21037091		
CH322-10P11 3L	7893968	7914968	located_end	7893968
	estimated_end	7914968		
CH322-10P18 X	4932454	4953454	located_end	4932454
	estimated_end	4953454		
CH322-10P22 X	647114	668114	located_end	647114
	estimated_end	668114		
CH322-10P24 3R	2885377	2906377	estimated_end	2885377
	located_end	2906377		
CH322-110A02 2L	4999035	5020035	estimated_end	4999035
	located_end	5020035		
CH322-110A03 3R	13913310	13934310	located_end	13913310
	estimated_end	13934310		
CH322-110A04 X	8368560	8389560	estimated_end	8368560
	located_end	8389560		
CH322-110A06 3R	26431040	26452040	located_end	26431040
	estimated_end	26452040		
CH322-110A07 2L	12664106	12685106	located_end	12664106
	estimated_end	12685106		
CH322-110A09 2R	11364266	11385266	estimated_end	11364266
	located_end	11385266		
CH322-110A10 ArmU	4334877	4355877	estimated_end	4334877
	located_end	4355877		

CH322-110A11	2L	3126067	3147067	estimated_end	3126067
		located_end	3147067		
CH322-110A12	3R	19328819	19349819	estimated_end	19328819
		located_end	19349819		
CH322-110A14	X	12353893	12374893	estimated_end	12353893
		located_end	12374893		
CH322-110A15	2L	10324799	10345799	estimated_end	10324799
		located_end	10345799		
CH322-110A16	2R	14775347	14796347	estimated_end	14775347
		located_end	14796347		
CH322-110A18	2R	19723926	19744926	estimated_end	19723926
		located_end	19744926		
CH322-110A20	2R	8784742	8805742	estimated_end	8784742
		located_end	8805742		
CH322-110A21	3R	6674549	6695549	estimated_end	6674549
		located_end	6695549		
CH322-110A22	3R	6528119	6549119	estimated_end	6528119
		located_end	6549119		
CH322-110A23	3R	8588848	8609848	estimated_end	8588848
		located_end	8609848		
CH322-110A24	3R	2580429	2601429	estimated_end	2580429
		located_end	2601429		
CH322-110B02	3L	8044520	8065520	located_end	8044520
		estimated_end	8065520		
CH322-110B03	2R	3431336	3452336	located_end	3431336
		estimated_end	3452336		
CH322-110B04	2R	2535255	2556255	located_end	2535255
		estimated_end	2556255		
CH322-110B05	3R	9556128	9577128	located_end	9556128
		estimated_end	9577128		
CH322-110B06	2R	8213334	8234334	located_end	8213334
		estimated_end	8234334		
CH322-110B07	2L	2972700	2993700	located_end	2972700
		estimated_end	2993700		
CH322-110B08	2R	10190268	10211268	located_end	10190268
		estimated_end	10211268		
CH322-110B09	X	17226184	17247184	estimated_end	17226184
		located_end	17247184		
CH322-110B10	3R	11126257	11147257	located_end	11126257
		estimated_end	11147257		
CH322-110B11	3R	11905811	11926811	located_end	11905811
		estimated_end	11926811		
CH322-110B12	2R	6970991	6991991	estimated_end	6970991
		located_end	6991991		
CH322-110B15	X	336251	357251	located_end	336251
		estimated_end	357251		
CH322-110B16	3L	22683970	22704970	estimated_end	22683970
		located_end	22704970		
CH322-110B17	2L	412091	433091	estimated_end	412091
		located_end	433091		
CH322-110B18	3L	4019655	4040655	estimated_end	4019655
		located_end	4040655		
CH322-110B19	3L	223713	244713	located_end	223713
		estimated_end	244713		

CH322-110B21	2L	14238841	14259841	located_end	14238841
		estimated_end	14259841		
CH322-110B24	2L	3847970	3868970	estimated_end	3847970
		located_end	3868970		
CH322-110C01	2L	16319875	16340875	estimated_end	16319875
		located_end	16340875		
CH322-110C02	2L	20426373	20447373	located_end	20426373
		estimated_end	20447373		
CH322-110C05	2L	12042582	12063582	estimated_end	12042582
		located_end	12063582		
CH322-110C06	3L	17895562	17916562	located_end	17895562
		estimated_end	17916562		
CH322-110C08	3R	10054725	10075725	located_end	10054725
		estimated_end	10075725		
CH322-110C09	2R	14769760	14790760	located_end	14769760
		estimated_end	14790760		
CH322-110C10	3R	13989270	14010270	located_end	13989270
		estimated_end	14010270		
CH322-110C11	2L	14813447	14834447	located_end	14813447
		estimated_end	14834447		
CH322-110C12	X	5382022	5403022	located_end	5382022
		estimated_end	5403022		
CH322-110C14	3L	11774074	11795074	located_end	11774074
		estimated_end	11795074		
CH322-110C18	3R	184219	205219	estimated_end	184219
		located_end	205219		
CH322-110C20	2R	14899765	14920765	estimated_end	14899765
		located_end	14920765		
CH322-110C21	X	16166022	16187022	estimated_end	16166022
		located_end	16187022		
CH322-110C23	2L	17951298	17972298	estimated_end	17951298
		located_end	17972298		
CH322-110C24	3L	1207612	1228612	located_end	1207612
		estimated_end	1228612		
CH322-110D01	3R	19074308	19095308	estimated_end	19074308
		located_end	19095308		
CH322-110D02	3R	25710661	25731661	estimated_end	25710661
		located_end	25731661		
CH322-110D03	2R	17854392	17875392	estimated_end	17854392
		located_end	17875392		
CH322-110D04	2L	15723625	15744625	estimated_end	15723625
		located_end	15744625		
CH322-110D05	3L	1249776	1270776	located_end	1249776
		estimated_end	1270776		
CH322-110D06	2L	6755041	6776041	estimated_end	6755041
		located_end	6776041		
CH322-110D07	3R	25934503	25955503	located_end	25934503
		estimated_end	25955503		
CH322-110D08	2R	18988880	19009880	located_end	18988880
		estimated_end	19009880		
CH322-110D09	3R	24962308	24983308	estimated_end	24962308
		located_end	24983308		
CH322-110D10	2L	7423151	7444151	located_end	7423151
		estimated_end	7444151		

CH322-110D11	2L	3427546	3448546	estimated_end	3427546
		located_end	3448546		
CH322-110D13	X	20636353	20657353	estimated_end	20636353
		located_end	20657353		
CH322-110D14	3LHet	677024	698024	located_end	677024
		estimated_end	698024		
CH322-110D16	X	6659228	6680228	estimated_end	6659228
		located_end	6680228		
CH322-110D17	3L	19870988	19891988	estimated_end	19870988
		located_end	19891988		
CH322-110D18	3R	6195369	6216369	located_end	6195369
		estimated_end	6216369		
CH322-110D19	3L	8474539	8495539	located_end	8474539
		estimated_end	8495539		
CH322-110D20	2L	20839823	20860823	estimated_end	20839823
		located_end	20860823		
CH322-110D21	X	17356043	17377043	located_end	17356043
		estimated_end	17377043		
CH322-110D22	2R	6333914	6354914	estimated_end	6333914
		located_end	6354914		
CH322-110D24	X	5879348	5900348	estimated_end	5879348
		located_end	5900348		
CH322-110E03	3L	14145872	14166872	estimated_end	14145872
		located_end	14166872		
CH322-110E04	3L	13222294	13243294	estimated_end	13222294
		located_end	13243294		
CH322-110E05	3R	5461793	5482793	located_end	5461793
		estimated_end	5482793		
CH322-110E06	2L	11053021	11074021	located_end	11053021
		estimated_end	11074021		
CH322-110E07	3R	13601270	13622270	estimated_end	13601270
		located_end	13622270		
CH322-110E09	3L	5158575	5179575	estimated_end	5158575
		located_end	5179575		
CH322-110E10	3R	23549200	23570200	located_end	23549200
		estimated_end	23570200		
CH322-110E11	2R	17174753	17195753	estimated_end	17174753
		located_end	17195753		
CH322-110E15	X	18185869	18206869	located_end	18185869
		estimated_end	18206869		
CH322-110E16	3R	9597671	9618671	estimated_end	9597671
		located_end	9618671		
CH322-110E17	3R	11308210	11329210	located_end	11308210
		estimated_end	11329210		
CH322-110E19	3L	21249401	21270401	estimated_end	21249401
		located_end	21270401		
CH322-110E20	3R	19183212	19204212	estimated_end	19183212
		located_end	19204212		
CH322-110E22	X	8345376	8366376	estimated_end	8345376
		located_end	8366376		
CH322-110F01	3R	8796991	8817991	located_end	8796991
		estimated_end	8817991		
CH322-110F03	3R	25631731	25652731	estimated_end	25631731
		located_end	25652731		

CH322-110F04	3R	11702632	11723632	estimated_end	11702632
		located_end	11723632		
CH322-110F05	2L	6936188	6957188	estimated_end	6936188
		located_end	6957188		
CH322-110F06	X	6873852	6894852	located_end	6873852
		estimated_end	6894852		
CH322-110F07	X	14328663	14349663	estimated_end	14328663
		located_end	14349663		
CH322-110F09	2R	13492312	13513312	located_end	13492312
		estimated_end	13513312		
CH322-110F10	2L	3306526	3327526	estimated_end	3306526
		located_end	3327526		
CH322-110F15	2R	8268173	8289173	estimated_end	8268173
		located_end	8289173		
CH322-110F18	2L	2461723	2482723	located_end	2461723
		estimated_end	2482723		
CH322-110F21	X	9201842	9222842	estimated_end	9201842
		located_end	9222842		
CH322-110F22	2L	17533477	17554477	estimated_end	17533477
		located_end	17554477		
CH322-110F24	2R	18832902	18853902	located_end	18832902
		estimated_end	18853902		
CH322-110G01	2L	7975527	7996527	estimated_end	7975527
		located_end	7996527		
CH322-110G02	3R	19781627	19802627	located_end	19781627
		estimated_end	19802627		
CH322-110G05	3R	27623856	27644856	located_end	27623856
		estimated_end	27644856		
CH322-110G06	3R	17115035	17136035	located_end	17115035
		estimated_end	17136035		
CH322-110G09	2L	17379762	17400762	estimated_end	17379762
		located_end	17400762		
CH322-110G11	2R	3539738	3560738	located_end	3539738
		estimated_end	3560738		
CH322-110G13	X	10839774	10860774	located_end	10839774
		estimated_end	10860774		
CH322-110G14	3L	4009345	4030345	estimated_end	4009345
		located_end	4030345		
CH322-110G15	X	2221651	2242651	located_end	2221651
		estimated_end	2242651		
CH322-110G17	X	8040483	8061483	located_end	8040483
		estimated_end	8061483		
CH322-110G18	2R	15073726	15094726	located_end	15073726
		estimated_end	15094726		
CH322-110G19	X	20063405	20084405	located_end	20063405
		estimated_end	20084405		
CH322-110G20	3R	7125898	7146898	estimated_end	7125898
		located_end	7146898		
CH322-110G21	2L	4965051	4986051	located_end	4965051
		estimated_end	4986051		
CH322-110G22	3L	18843550	18864550	estimated_end	18843550
		located_end	18864550		
CH322-110H01	3L	15425980	15446980	estimated_end	15425980
		located_end	15446980		

CH322-110H02	2Rhet	1860677	1881677	estimated_end	1860677
		located_end	1881677		
CH322-110H04	2R	13644626	13665626	estimated_end	13644626
		located_end	13665626		
CH322-110H05	2L	397483	418483	located_end	397483
		estimated_end	418483		
CH322-110H07	3R	25632641	25653641	estimated_end	25632641
		located_end	25653641		
CH322-110H08	2R	2957743	2978743	estimated_end	2957743
		located_end	2978743		
CH322-110H09	3L	24484892	24505892	located_end	24484892
		estimated_end	24505892		
CH322-110H10	2L	5110363	5131363	estimated_end	5110363
		located_end	5131363		
CH322-110H11	2R	14336071	14357071	estimated_end	14336071
		located_end	14357071		
CH322-110H13	3R	23622004	23643004	estimated_end	23622004
		located_end	23643004		
CH322-110H15	2R	8889110	8910110	estimated_end	8889110
		located_end	8910110		
CH322-110H16	X	11216935	11237935	estimated_end	11216935
		located_end	11237935		
CH322-110H17	2R	1962434	1983434	located_end	1962434
		estimated_end	1983434		
CH322-110H18	3L	7575358	7596358	estimated_end	7575358
		located_end	7596358		
CH322-110H19	2R	4688078	4709078	located_end	4688078
		estimated_end	4709078		
CH322-110H20	X	14550355	14571355	estimated_end	14550355
		located_end	14571355		
CH322-110H21	2L	15241513	15262513	located_end	15241513
		estimated_end	15262513		
CH322-110H22	3LHet	988017	1009017	estimated_end	988017
		located_end	1009017		
CH322-110H23	2R	13293037	13314037	located_end	13293037
		estimated_end	13314037		
CH322-110I04	3R	21039108	21060108	estimated_end	21039108
		located_end	21060108		
CH322-110I05	3R	14863084	14884084	estimated_end	14863084
		located_end	14884084		
CH322-110I06	2R	19796952	19817952	located_end	19796952
		estimated_end	19817952		
CH322-110I07	3L	19043930	19064930	estimated_end	19043930
		located_end	19064930		
CH322-110I09	2R	7106488	7127488	estimated_end	7106488
		located_end	7127488		
CH322-110I10	3R	10896345	10917345	estimated_end	10896345
		located_end	10917345		
CH322-110I11	2L	3618277	3639277	estimated_end	3618277
		located_end	3639277		
CH322-110I12	2L	7187207	7208207	estimated_end	7187207
		located_end	7208207		
CH322-110I14	3R	20134939	20155939	located_end	20134939
		estimated_end	20155939		

CH322-110I15	3L	9359631	9380631	located_end	9359631
		estimated_end	9380631		
CH322-110I16	2R	16189651	16210651	located_end	16189651
		estimated_end	16210651		
CH322-110I18	2R	13392774	13413774	estimated_end	13392774
		located_end	13413774		
CH322-110I19	2R	2861315	2882315	estimated_end	2861315
		located_end	2882315		
CH322-110I20	3R	18372808	18393808	located_end	18372808
		estimated_end	18393808		
CH322-110I21	X	5227402	5248402	located_end	5227402
		estimated_end	5248402		
CH322-110I22	3L	16549099	16570099	estimated_end	16549099
		located_end	16570099		
CH322-110I23	2L	21615674	21636674	located_end	21615674
		estimated_end	21636674		
CH322-110J01	2R	145611	166611	estimated_end	145611
		located_end	166611		
CH322-110J02	3R	8826652	8847652	located_end	8826652
		estimated_end	8847652		
CH322-110J03	X	14641728	14662728	estimated_end	14641728
		located_end	14662728		
CH322-110J04	2R	14720339	14741339	estimated_end	14720339
		located_end	14741339		
CH322-110J06	2L	15901487	15922487	located_end	15901487
		estimated_end	15922487		
CH322-110J08	3L	6434076	6455076	located_end	6434076
		estimated_end	6455076		
CH322-110J11	3R	22343713	22364713	estimated_end	22343713
		located_end	22364713		
CH322-110J12	3L	8440258	8461258	estimated_end	8440258
		located_end	8461258		
CH322-110J15	3L	9640424	9661424	located_end	9640424
		estimated_end	9661424		
CH322-110J16	2L	5460674	5481674	located_end	5460674
		estimated_end	5481674		
CH322-110J18	3R	3122536	3143536	estimated_end	3122536
		located_end	3143536		
CH322-110J20	X	4252691	4273691	estimated_end	4252691
		located_end	4273691		
CH322-110J21	2L	467710	488710	estimated_end	467710
		located_end	488710		
CH322-110J22	2L	1178905	1199905	located_end	1178905
		estimated_end	1199905		
CH322-110J23	2R	16502133	16523133	located_end	16502133
		estimated_end	16523133		
CH322-110K01	3R	23193067	23214067	located_end	23193067
		estimated_end	23214067		
CH322-110K02	3RHet	250527	271527	estimated_end	250527
		located_end	271527		
CH322-110K03	3R	15592810	15613810	estimated_end	15592810
		located_end	15613810		
CH322-110K05	3LHet	1164724	1185724	estimated_end	1164724
		located_end	1185724		

CH322-110K08	ArmU	6858743	6879743	estimated_end	6858743
		located_end	6879743		
CH322-110K09	3L	1483178	1504178	located_end	1483178
		estimated_end	1504178		
CH322-110K10	X	2186543	2207543	located_end	2186543
		estimated_end	2207543		
CH322-110K11	3R	11044521	11065521	estimated_end	11044521
		located_end	11065521		
CH322-110K12	3L	18288093	18309093	estimated_end	18288093
		located_end	18309093		
CH322-110K13	2L	19285250	19306250	located_end	19285250
		estimated_end	19306250		
CH322-110K14	X	16943061	16964061	estimated_end	16943061
		located_end	16964061		
CH322-110K16	3R	26997341	27018341	located_end	26997341
		estimated_end	27018341		
CH322-110K17	3R	23450172	23471172	located_end	23450172
		estimated_end	23471172		
CH322-110K18	3R	17069153	17090153	estimated_end	17069153
		located_end	17090153		
CH322-110K19	3R	25389587	25410587	estimated_end	25389587
		located_end	25410587		
CH322-110K20	X	10885501	10906501	located_end	10885501
		estimated_end	10906501		
CH322-110K23	3L	1271886	1292886	located_end	1271886
		estimated_end	1292886		
CH322-110L01	3R	25720521	25741521	located_end	25720521
		estimated_end	25741521		
CH322-110L03	X	16578759	16599759	located_end	16578759
		estimated_end	16599759		
CH322-110L04	3R	25649384	25670384	located_end	25649384
		estimated_end	25670384		
CH322-110L06	X	16413480	16434480	located_end	16413480
		estimated_end	16434480		
CH322-110L08	2L	2174522	2195522	estimated_end	2174522
		located_end	2195522		
CH322-110L10	3L	12760042	12781042	estimated_end	12760042
		located_end	12781042		
CH322-110L13	X	15345592	15366592	located_end	15345592
		estimated_end	15366592		
CH322-110L14	3R	12277187	12298187	located_end	12277187
		estimated_end	12298187		
CH322-110L16	2R	17928701	17949701	estimated_end	17928701
		located_end	17949701		
CH322-110L20	2R	4429113	4450113	estimated_end	4429113
		located_end	4450113		
CH322-110L21	2L	2356477	2377477	located_end	2356477
		estimated_end	2377477		
CH322-110L22	3L	1942095	1963095	located_end	1942095
		estimated_end	1963095		
CH322-110L23	2R	9066361	9087361	located_end	9066361
		estimated_end	9087361		
CH322-110M02	2R	18110780	18131780	located_end	18110780
		estimated_end	18131780		

CH322-110M04	2L	5244539	5265539	estimated_end	5244539
		located_end	5265539		
CH322-110M05	X	19266521	19287521	located_end	19266521
		estimated_end	19287521		
CH322-110M06	X	19023667	19044667	estimated_end	19023667
		located_end	19044667		
CH322-110M07	3R	7155682	7176682	estimated_end	7155682
		located_end	7176682		
CH322-110M09	2R	13966234	13987234	estimated_end	13966234
		located_end	13987234		
CH322-110M11	3L	8659853	8680853	estimated_end	8659853
		located_end	8680853		
CH322-110M13	2L	843971	864971	located_end	843971
		estimated_end	864971		
CH322-110M15	3R	8831743	8852743	estimated_end	8831743
		located_end	8852743		
CH322-110M19	3R	6262864	6283864	located_end	6262864
		estimated_end	6283864		
CH322-110M23	3L	3092658	3113658	estimated_end	3092658
		located_end	3113658		
CH322-110M24	3R	16411444	16432444	estimated_end	16411444
		located_end	16432444		
CH322-110N01	2R	5717888	5738888	estimated_end	5717888
		located_end	5738888		
CH322-110N02	2R	10687050	10708050	located_end	10687050
		estimated_end	10708050		
CH322-110N03	2L	3522148	3543148	estimated_end	3522148
		located_end	3543148		
CH322-110N04	2R	2041789	2062789	estimated_end	2041789
		located_end	2062789		
CH322-110N05	3R	20448877	20469877	estimated_end	20448877
		located_end	20469877		
CH322-110N06	3R	11017640	11038640	estimated_end	11017640
		located_end	11038640		
CH322-110N07	2L	7376211	7397211	located_end	7376211
		estimated_end	7397211		
CH322-110N08	3L	15986537	16007537	estimated_end	15986537
		located_end	16007537		
CH322-110N09	3L	1762304	1783304	estimated_end	1762304
		located_end	1783304		
CH322-110N10	X	14687789	14708789	estimated_end	14687789
		located_end	14708789		
CH322-110N12	3R	13245190	13266190	estimated_end	13245190
		located_end	13266190		
CH322-110N14	3L	14068336	14089336	located_end	14068336
		estimated_end	14089336		
CH322-110N18	2R	7873933	7894933	located_end	7873933
		estimated_end	7894933		
CH322-110N19	3L	7517671	7538671	estimated_end	7517671
		located_end	7538671		
CH322-110N20	3R	20169971	20190971	estimated_end	20169971
		located_end	20190971		
CH322-110N21	X	13789695	13810695	located_end	13789695
		estimated_end	13810695		

CH322-110N22	3R	5621472	5642472	located_end	5621472
		estimated_end	5642472		
CH322-110N23	3L	6421579	6442579	estimated_end	6421579
		located_end	6442579		
CH322-110N24	2R	13783464	13804464	located_end	13783464
		estimated_end	13804464		
CH322-110O01	2L	13455518	13476518	estimated_end	13455518
		located_end	13476518		
CH322-110O02	3RHet	2033821	2054821	located_end	2033821
		estimated_end	2054821		
CH322-110O03	2R	12766620	12787620	estimated_end	12766620
		located_end	12787620		
CH322-110O05	3L	2596988	2617988	estimated_end	2596988
		located_end	2617988		
CH322-110O08	2R	18366538	18387538	located_end	18366538
		estimated_end	18387538		
CH322-110O09	3L	1411313	1432313	estimated_end	1411313
		located_end	1432313		
CH322-110O13	4	732385	753385	located_end	732385
		estimated_end	753385		
CH322-110O15	3R	19756167	19777167	estimated_end	19756167
		located_end	19777167		
CH322-110O16	3R	6942495	6963495	estimated_end	6942495
		located_end	6963495		
CH322-110O18	2R	9449269	9470269	estimated_end	9449269
		located_end	9470269		
CH322-110O19	3R	15182088	15203088	located_end	15182088
		estimated_end	15203088		
CH322-110O21	3L	1906352	1927352	estimated_end	1906352
		located_end	1927352		
CH322-110O24	3R	24177520	24198520	located_end	24177520
		estimated_end	24198520		
CH322-110P01	2R	20810397	20831397	estimated_end	20810397
		located_end	20831397		
CH322-110P02	2L	15266789	15287789	estimated_end	15266789
		located_end	15287789		
CH322-110P03	3L	10914907	10935907	located_end	10914907
		estimated_end	10935907		
CH322-110P04	3L	19833201	19854201	located_end	19833201
		estimated_end	19854201		
CH322-110P05	3R	1678716	1699716	located_end	1678716
		estimated_end	1699716		
CH322-110P09	3R	4480145	4501145	located_end	4480145
		estimated_end	4501145		
CH322-110P10	3LHet	2191540	2212540	located_end	2191540
		estimated_end	2212540		
CH322-110P13	3R	25262730	25283730	located_end	25262730
		estimated_end	25283730		
CH322-110P14	3R	19078406	19099406	located_end	19078406
		estimated_end	19099406		
CH322-110P16	2L	4113880	4134880	located_end	4113880
		estimated_end	4134880		
CH322-110P18	X	4903734	4924734	located_end	4903734
		estimated_end	4924734		

CH322-110P19	2L	12661856	12682856	located_end	12661856
		estimated_end	12682856		
CH322-110P20	2R	4812744	4833744	estimated_end	4812744
		located_end	4833744		
CH322-110P21	3R	2629391	2650391	estimated_end	2629391
		located_end	2650391		
CH322-110P23	2R	3186284	3207284	located_end	3186284
		estimated_end	3207284		
CH322-111A01	2R	20665708	20686708	estimated_end	20665708
		located_end	20686708		
CH322-111A02	2R	9049622	9070622	located_end	9049622
		estimated_end	9070622		
CH322-111A07	2L	21822347	21843347	located_end	21822347
		estimated_end	21843347		
CH322-111A11	3L	15675763	15696763	located_end	15675763
		estimated_end	15696763		
CH322-111A13	3L	2600125	2621125	located_end	2600125
		estimated_end	2621125		
CH322-111A14	3R	8800141	8821141	located_end	8800141
		estimated_end	8821141		
CH322-111A16	2L	18235137	18256137	estimated_end	18235137
		located_end	18256137		
CH322-111A17	3R	8799444	8820444	located_end	8799444
		estimated_end	8820444		
CH322-111A18	3R	27267426	27288426	located_end	27267426
		estimated_end	27288426		
CH322-111A19	3RHet	1770334	1791334	estimated_end	1770334
		located_end	1791334		
CH322-111A22	3R	14817402	14838402	estimated_end	14817402
		located_end	14838402		
CH322-111A23	X	10364136	10385136	estimated_end	10364136
		located_end	10385136		
CH322-111A24	3R	19254407	19275407	estimated_end	19254407
		located_end	19275407		
CH322-111B01	X	4066081	4087081	located_end	4066081
		estimated_end	4087081		
CH322-111B02	4	705153	726153	located_end	705153
		estimated_end	726153		
CH322-111B04	3L	11196810	11217810	located_end	11196810
		estimated_end	11217810		
CH322-111B05	3R	17553519	17574519	located_end	17553519
		estimated_end	17574519		
CH322-111B07	ArmU	1327234	1348234	located_end	1327234
		estimated_end	1348234		
CH322-111B09	X	20548350	20569350	located_end	20548350
		estimated_end	20569350		
CH322-111B10	3R	2353851	2374851	estimated_end	2353851
		located_end	2374851		
CH322-111B11	3L	24332903	24353903	estimated_end	24332903
		located_end	24353903		
CH322-111B12	3R	385054	406054	estimated_end	385054
		located_end	406054		
CH322-111B13	X	7915544	7936544	estimated_end	7915544
		located_end	7936544		

CH322-111B15	3R	11636379	11657379	located_end	11636379
		estimated_end	11657379		
CH322-111B16	3R	8098428	8119428	estimated_end	8098428
		located_end	8119428		
CH322-111B17	3R	20422794	20443794	located_end	20422794
		estimated_end	20443794		
CH322-111B18	2R	19592176	19613176	estimated_end	19592176
		located_end	19613176		
CH322-111B19	2L	20415910	20436910	estimated_end	20415910
		located_end	20436910		
CH322-111B20	3R	7150765	7171765	located_end	7150765
		estimated_end	7171765		
CH322-111B22	X	11008449	11029449	estimated_end	11008449
		located_end	11029449		
CH322-111B23	X	19178213	19199213	located_end	19178213
		estimated_end	19199213		
CH322-111B24	X	14072524	14093524	located_end	14072524
		estimated_end	14093524		
CH322-111C02	3R	9660017	9681017	estimated_end	9660017
		located_end	9681017		
CH322-111C03	3L	13380922	13401922	estimated_end	13380922
		located_end	13401922		
CH322-111C05	X	20702632	20723632	located_end	20702632
		estimated_end	20723632		
CH322-111C09	3R	22982271	23003271	located_end	22982271
		estimated_end	23003271		
CH322-111C10	X	17846597	17867597	estimated_end	17846597
		located_end	17867597		
CH322-111C12	3L	19888022	19909022	located_end	19888022
		estimated_end	19909022		
CH322-111C13	3R	26453902	26474902	located_end	26453902
		estimated_end	26474902		
CH322-111C14	3R	3826586	3847586	estimated_end	3826586
		located_end	3847586		
CH322-111C16	2R	11802294	11823294	located_end	11802294
		estimated_end	11823294		
CH322-111C18	X	6433424	6454424	located_end	6433424
		estimated_end	6454424		
CH322-111C19	3R	25618341	25639341	located_end	25618341
		estimated_end	25639341		
CH322-111C20	2R	7816622	7837622	estimated_end	7816622
		located_end	7837622		
CH322-111C21	3L	16618876	16639876	located_end	16618876
		estimated_end	16639876		
CH322-111C22	2L	7515355	7536355	estimated_end	7515355
		located_end	7536355		
CH322-111C23	2L	22561319	22582319	estimated_end	22561319
		located_end	22582319		
CH322-111C24	X	14691535	14712535	located_end	14691535
		estimated_end	14712535		
CH322-111D01	2L	659529	680529	located_end	659529
		estimated_end	680529		
CH322-111D02	2L	16632177	16653177	located_end	16632177
		estimated_end	16653177		

CH322-111D03	2R	19445762	19466762	located_end	19445762
		estimated_end	19466762		
CH322-111D04	2R	5245828	5266828	estimated_end	5245828
		located_end	5266828		
CH322-111D05	2L	12673106	12694106	estimated_end	12673106
		located_end	12694106		
CH322-111D08	2L	18894441	18915441	estimated_end	18894441
		located_end	18915441		
CH322-111D09	2L	21758590	21779590	located_end	21758590
		estimated_end	21779590		
CH322-111D10	3L	2884705	2905705	estimated_end	2884705
		located_end	2905705		
CH322-111D12	2L	11821711	11842711	located_end	11821711
		estimated_end	11842711		
CH322-111D13	2L	13110687	13131687	estimated_end	13110687
		located_end	13131687		
CH322-111D14	3L	596444	617444	estimated_end	596444
		located_end	617444		
CH322-111D15	X	9232991	9253991	estimated_end	9232991
		located_end	9253991		
CH322-111D17	2L	7756878	7777878	located_end	7756878
		estimated_end	7777878		
CH322-111D19	3L	7722141	7743141	estimated_end	7722141
		located_end	7743141		
CH322-111D20	3R	7992764	8013764	estimated_end	7992764
		located_end	8013764		
CH322-111D22	3L	15260543	15281543	estimated_end	15260543
		located_end	15281543		
CH322-111D23	3R	4891090	4912090	estimated_end	4891090
		located_end	4912090		
CH322-111E03	2L	16250318	16271318	estimated_end	16250318
		located_end	16271318		
CH322-111E04	ArmU	7783599	7804599	located_end	7783599
		estimated_end	7804599		
CH322-111E05	2R	8302220	8323220	located_end	8302220
		estimated_end	8323220		
CH322-111E06	3L	9805654	9826654	located_end	9805654
		estimated_end	9826654		
CH322-111E07	3R	15965366	15986366	located_end	15965366
		estimated_end	15986366		
CH322-111E08	3L	14559605	14580605	estimated_end	14559605
		located_end	14580605		
CH322-111E09	2L	9427462	9448462	estimated_end	9427462
		located_end	9448462		
CH322-111E10	3L	16010720	16031720	located_end	16010720
		estimated_end	16031720		
CH322-111E11	3RHet	1551318	1572318	estimated_end	1551318
		located_end	1572318		
CH322-111E13	2L	9723711	9744711	located_end	9723711
		estimated_end	9744711		
CH322-111E14	2R	8107025	8128025	located_end	8107025
		estimated_end	8128025		
CH322-111E16	3L	21275494	21296494	located_end	21275494
		estimated_end	21296494		

CH322-111E17	2L	12028995	12049995	estimated_end	12028995
		located_end	12049995		
CH322-111E20	3L	18226827	18247827	estimated_end	18226827
		located_end	18247827		
CH322-111E22	2L	443875	464875	estimated_end	443875
		located_end	464875		
CH322-111E23	2L	12009538	12030538	located_end	12009538
		estimated_end	12030538		
CH322-111E24	3R	21992308	22013308	estimated_end	21992308
		located_end	22013308		
CH322-111F01	3LHet	2200814	2221814	estimated_end	2200814
		located_end	2221814		
CH322-111F02	3LHet	2167624	2188624	located_end	2167624
		estimated_end	2188624		
CH322-111F03	2R	20835730	20856730	located_end	20835730
		estimated_end	20856730		
CH322-111F04	3L	6060103	6081103	estimated_end	6060103
		located_end	6081103		
CH322-111F05	3R	17317400	17338400	located_end	17317400
		estimated_end	17338400		
CH322-111F06	2R	148874	169874	located_end	148874
		estimated_end	169874		
CH322-111F07	2L	11157960	11178960	located_end	11157960
		estimated_end	11178960		
CH322-111F08	2L	5337288	5358288	estimated_end	5337288
		located_end	5358288		
CH322-111F09	3L	1297042	1318042	located_end	1297042
		estimated_end	1318042		
CH322-111F10	3R	11983178	12004178	located_end	11983178
		estimated_end	12004178		
CH322-111F11	2R	18953667	18974667	estimated_end	18953667
		located_end	18974667		
CH322-111F12	2L	19040747	19061747	located_end	19040747
		estimated_end	19061747		
CH322-111F14	2L	21798906	21819906	located_end	21798906
		estimated_end	21819906		
CH322-111F17	3L	1880936	1901936	located_end	1880936
		estimated_end	1901936		
CH322-111F18	X	420229	441229	located_end	420229
		estimated_end	441229		
CH322-111F19	2R	9744380	9765380	estimated_end	9744380
		located_end	9765380		
CH322-111F20	3L	23077436	23098436	located_end	23077436
		estimated_end	23098436		
CH322-111F22	X	16527420	16548420	located_end	16527420
		estimated_end	16548420		
CH322-111F23	2R	5709152	5730152	estimated_end	5709152
		located_end	5730152		
CH322-111F24	3L	7076747	7097747	estimated_end	7076747
		located_end	7097747		
CH322-111G02	2R	5213322	5234322	estimated_end	5213322
		located_end	5234322		
CH322-111G03	X	20335079	20356079	estimated_end	20335079
		located_end	20356079		

CH322-111G04	4	471353	492353	located_end	471353
		estimated_end	492353		
CH322-111G05	2L	10625823	10646823	estimated_end	10625823
		located_end	10646823		
CH322-111G06	3L	4319469	4340469	estimated_end	4319469
		located_end	4340469		
CH322-111G08	X	20511857	20532857	located_end	20511857
		estimated_end	20532857		
CH322-111G09	3L	12074610	12095610	located_end	12074610
		estimated_end	12095610		
CH322-111G10	2R	11973722	11994722	estimated_end	11973722
		located_end	11994722		
CH322-111G12	3R	15327249	15348249	estimated_end	15327249
		located_end	15348249		
CH322-111G13	3R	4182979	4203979	located_end	4182979
		estimated_end	4203979		
CH322-111G14	3L	4960099	4981099	estimated_end	4960099
		located_end	4981099		
CH322-111G16	2L	6162174	6183174	estimated_end	6162174
		located_end	6183174		
CH322-111G18	3R	26293207	26314207	located_end	26293207
		estimated_end	26314207		
CH322-111G19	3L	20305625	20326625	located_end	20305625
		estimated_end	20326625		
CH322-111G20	X	1333882	1354882	estimated_end	1333882
		located_end	1354882		
CH322-111G21	3LHet	258287	279287	located_end	258287
		estimated_end	279287		
CH322-111G23	3L	8613309	8634309	located_end	8613309
		estimated_end	8634309		
CH322-111G24	2L	13826194	13847194	located_end	13826194
		estimated_end	13847194		
CH322-111H01	2R	19967679	19988679	located_end	19967679
		estimated_end	19988679		
CH322-111H02	2R	20433680	20454680	located_end	20433680
		estimated_end	20454680		
CH322-111H03	2L	19540974	19561974	estimated_end	19540974
		located_end	19561974		
CH322-111H04	2R	18226270	18247270	estimated_end	18226270
		located_end	18247270		
CH322-111H05	3L	11031932	11052932	estimated_end	11031932
		located_end	11052932		
CH322-111H06	2L	7368123	7389123	estimated_end	7368123
		located_end	7389123		
CH322-111H07	3L	5463915	5484915	estimated_end	5463915
		located_end	5484915		
CH322-111H08	3R	5876540	5897540	located_end	5876540
		estimated_end	5897540		
CH322-111H09	3L	22467696	22488696	located_end	22467696
		estimated_end	22488696		
CH322-111H10	2R	8472937	8493937	estimated_end	8472937
		located_end	8493937		
CH322-111H14	2L	11126007	11147007	located_end	11126007
		estimated_end	11147007		

CH322-111H16	2R	885736	906736	estimated_end	885736
		located_end	906736		
CH322-111H17	2L	2952067	2973067	located_end	2952067
		estimated_end	2973067		
CH322-111H18	2L	20347824	20368824	located_end	20347824
		estimated_end	20368824		
CH322-111H19	2R	20700380	20721380	located_end	20700380
		estimated_end	20721380		
CH322-111H20	3R	10167037	10188037	located_end	10167037
		estimated_end	10188037		
CH322-111H21	3R	18616244	18637244	located_end	18616244
		estimated_end	18637244		
CH322-111H22	3R	23095859	23116859	estimated_end	23095859
		located_end	23116859		
CH322-111H23	2L	4345954	4366954	estimated_end	4345954
		located_end	4366954		
CH322-111I03	2L	21362060	21383060	located_end	21362060
		estimated_end	21383060		
CH322-111I04	X	20346974	20367974	located_end	20346974
		estimated_end	20367974		
CH322-111I06	2R	14380364	14401364	estimated_end	14380364
		located_end	14401364		
CH322-111I07	3L	13846569	13867569	located_end	13846569
		estimated_end	13867569		
CH322-111I08	X	15447857	15468857	estimated_end	15447857
		located_end	15468857		
CH322-111I09	3L	9727413	9748413	estimated_end	9727413
		located_end	9748413		
CH322-111I10	3L	2092298	2113298	located_end	2092298
		estimated_end	2113298		
CH322-111I11	2L	22693432	22714432	located_end	22693432
		estimated_end	22714432		
CH322-111I12	2L	22595919	22616919	estimated_end	22595919
		located_end	22616919		
CH322-111I13	3R	5411243	5432243	located_end	5411243
		estimated_end	5432243		
CH322-111I14	2R	3146379	3167379	estimated_end	3146379
		located_end	3167379		
CH322-111I15	2L	6128949	6149949	located_end	6128949
		estimated_end	6149949		
CH322-111I16	2L	2434966	2455966	located_end	2434966
		estimated_end	2455966		
CH322-111I17	3L	14458196	14479196	estimated_end	14458196
		located_end	14479196		
CH322-111I19	2R	11310288	11331288	located_end	11310288
		estimated_end	11331288		
CH322-111I20	2L	15298200	15319200	located_end	15298200
		estimated_end	15319200		
CH322-111I21	3R	24336524	24357524	located_end	24336524
		estimated_end	24357524		
CH322-111I22	2R	7141768	7162768	estimated_end	7141768
		located_end	7162768		
CH322-111I23	2R	7007448	7028448	estimated_end	7007448
		located_end	7028448		

CH322-111I24	3R	25708488	25729488	estimated_end	25708488
		located_end	25729488		
CH322-111J01	3L	14330306	14351306	located_end	14330306
		estimated_end	14351306		
CH322-111J02	2L	1427520	1448520	located_end	1427520
		estimated_end	1448520		
CH322-111J03	3R	14208359	14229359	estimated_end	14208359
		located_end	14229359		
CH322-111J05	3R	11636265	11657265	estimated_end	11636265
		located_end	11657265		
CH322-111J06	3R	12341888	12362888	estimated_end	12341888
		located_end	12362888		
CH322-111J07	3R	17097928	17118928	estimated_end	17097928
		located_end	17118928		
CH322-111J08	2R	5119221	5140221	located_end	5119221
		estimated_end	5140221		
CH322-111J10	3L	18561000	18582000	located_end	18561000
		estimated_end	18582000		
CH322-111J11	2L	16733390	16754390	estimated_end	16733390
		located_end	16754390		
CH322-111J13	3R	22423565	22444565	estimated_end	22423565
		located_end	22444565		
CH322-111J15	3R	19142679	19163679	estimated_end	19142679
		located_end	19163679		
CH322-111J16	2L	9652704	9673704	estimated_end	9652704
		located_end	9673704		
CH322-111J17	2L	20922344	20943344	estimated_end	20922344
		located_end	20943344		
CH322-111J18	2R	18878626	18899626	estimated_end	18878626
		located_end	18899626		
CH322-111J19	2R	9461915	9482915	located_end	9461915
		estimated_end	9482915		
CH322-111J20	3L	16763263	16784263	located_end	16763263
		estimated_end	16784263		
CH322-111J21	X	18085038	18106038	located_end	18085038
		estimated_end	18106038		
CH322-111J22	3R	26520054	26541054	located_end	26520054
		estimated_end	26541054		
CH322-111J23	2R	4480414	4501414	located_end	4480414
		estimated_end	4501414		
CH322-111J24	3R	4492501	4513501	estimated_end	4492501
		located_end	4513501		
CH322-111K01	X	16016470	16037470	located_end	16016470
		estimated_end	16037470		
CH322-111K02	2L	6721995	6742995	estimated_end	6721995
		located_end	6742995		
CH322-111K03	3R	13247843	13268843	located_end	13247843
		estimated_end	13268843		
CH322-111K04	3R	13545768	13566768	estimated_end	13545768
		located_end	13566768		
CH322-111K05	2L	11079735	11100735	located_end	11079735
		estimated_end	11100735		
CH322-111K06	2R	9929534	9950534	located_end	9929534
		estimated_end	9950534		

CH322-111K07	2L	17533850	17554850	estimated_end	17533850
		located_end	17554850		
CH322-111K09	3R	20592211	20613211	located_end	20592211
		estimated_end	20613211		
CH322-111K12	3R	27288615	27309615	estimated_end	27288615
		located_end	27309615		
CH322-111K13	3L	19849307	19870307	estimated_end	19849307
		located_end	19870307		
CH322-111K14	2L	10849256	10870256	estimated_end	10849256
		located_end	10870256		
CH322-111K16	3R	22263217	22284217	located_end	22263217
		estimated_end	22284217		
CH322-111K17	3R	12146005	12167005	located_end	12146005
		estimated_end	12167005		
CH322-111K19	2L	7209474	7230474	estimated_end	7209474
		located_end	7230474		
CH322-111K20	3R	17971751	17992751	located_end	17971751
		estimated_end	17992751		
CH322-111K21	X	4942261	4963261	located_end	4942261
		estimated_end	4963261		
CH322-111K22	X	9437172	9458172	estimated_end	9437172
		located_end	9458172		
CH322-111K23	2L	1804692	1825692	estimated_end	1804692
		located_end	1825692		
CH322-111K24	3L	22873267	22894267	located_end	22873267
		estimated_end	22894267		
CH322-111L02	3R	25335080	25356080	located_end	25335080
		estimated_end	25356080		
CH322-111L03	2R	6013268	6034268	located_end	6013268
		estimated_end	6034268		
CH322-111L04	2R	20379411	20400411	estimated_end	20379411
		located_end	20400411		
CH322-111L05	2R	2994501	3015501	located_end	2994501
		estimated_end	3015501		
CH322-111L06	3L	12671009	12692009	estimated_end	12671009
		located_end	12692009		
CH322-111L07	3R	5434658	5455658	estimated_end	5434658
		located_end	5455658		
CH322-111L09	2L	14535863	14556863	estimated_end	14535863
		located_end	14556863		
CH322-111L11	X	423208	444208	located_end	423208
		estimated_end	444208		
CH322-111L14	X	15475507	15496507	estimated_end	15475507
		located_end	15496507		
CH322-111L15	2R	4697288	4718288	located_end	4697288
		estimated_end	4718288		
CH322-111L16	3R	14592089	14613089	located_end	14592089
		estimated_end	14613089		
CH322-111L18	X	3581700	3602700	estimated_end	3581700
		located_end	3602700		
CH322-111L19	3R	22311711	22332711	estimated_end	22311711
		located_end	22332711		
CH322-111L20	X	12659103	12680103	located_end	12659103
		estimated_end	12680103		

CH322-111L21	2R	15201074	15222074	located_end	15201074
		estimated_end	15222074		
CH322-111L22	3RHet	1942688	1963688	located_end	1942688
		estimated_end	1963688		
CH322-111M03	3R	5489566	5510566	estimated_end	5489566
		located_end	5510566		
CH322-111M04	3R	5157583	5178583	located_end	5157583
		estimated_end	5178583		
CH322-111M05	2R	20590748	20611748	estimated_end	20590748
		located_end	20611748		
CH322-111M06	3L	13206869	13227869	estimated_end	13206869
		located_end	13227869		
CH322-111M07	3L	11881682	11902682	estimated_end	11881682
		located_end	11902682		
CH322-111M08	3R	7993249	8014249	estimated_end	7993249
		located_end	8014249		
CH322-111M15	3R	630354	651354	estimated_end	630354
		located_end	651354		
CH322-111M16	3R	25456844	25477844	located_end	25456844
		estimated_end	25477844		
CH322-111M17	3L	20337024	20358024	estimated_end	20337024
		located_end	20358024		
CH322-111M19	3R	4544718	4565718	estimated_end	4544718
		located_end	4565718		
CH322-111M23	3R	12099635	12120635	estimated_end	12099635
		located_end	12120635		
CH322-111N01	2L	19545924	19566924	estimated_end	19545924
		located_end	19566924		
CH322-111N02	2R	8451698	8472698	estimated_end	8451698
		located_end	8472698		
CH322-111N03	X	7726005	7747005	estimated_end	7726005
		located_end	7747005		
CH322-111N05	2R	11768155	11789155	located_end	11768155
		estimated_end	11789155		
CH322-111N07	3L	14098493	14119493	located_end	14098493
		estimated_end	14119493		
CH322-111N08	2L	22244101	22265101	estimated_end	22244101
		located_end	22265101		
CH322-111N09	3R	19554508	19575508	estimated_end	19554508
		located_end	19575508		
CH322-111N10	2R	6180370	6201370	located_end	6180370
		estimated_end	6201370		
CH322-111N11	3L	17650281	17671281	estimated_end	17650281
		located_end	17671281		
CH322-111N12	3RHet	862151	883151	located_end	862151
		estimated_end	883151		
CH322-111N15	3R	25022776	25043776	estimated_end	25022776
		located_end	25043776		
CH322-111N18	2R	18940178	18961178	located_end	18940178
		estimated_end	18961178		
CH322-111N19	3R	25939818	25960818	estimated_end	25939818
		located_end	25960818		
CH322-111N21	3L	12709152	12730152	estimated_end	12709152
		located_end	12730152		

CH322-111N22	3L	5936362	5957362	located_end	5936362
		estimated_end	5957362		
CH322-111N24	2R	18264756	18285756	located_end	18264756
		estimated_end	18285756		
CH322-111O01	2L	7476135	7497135	located_end	7476135
		estimated_end	7497135		
CH322-111O02	3L	2406446	2427446	located_end	2406446
		estimated_end	2427446		
CH322-111O03	2L	20124811	20145811	located_end	20124811
		estimated_end	20145811		
CH322-111O05	3L	4183701	4204701	located_end	4183701
		estimated_end	4204701		
CH322-111O09	3R	24261343	24282343	located_end	24261343
		estimated_end	24282343		
CH322-111O11	2L	20386931	20407931	located_end	20386931
		estimated_end	20407931		
CH322-111O18	2L	66421 87421	located_end 66421	estimated_end	87421
CH322-111O19	2R	9957890	9978890	estimated_end	9957890
		located_end	9978890		
CH322-111O21	3L	6122032	6143032	located_end	6122032
		estimated_end	6143032		
CH322-111O23	2L	8177816	8198816	located_end	8177816
		estimated_end	8198816		
CH322-111O24	3L	14412555	14433555	located_end	14412555
		estimated_end	14433555		
CH322-111P05	X	8949979	8970979	located_end	8949979
		estimated_end	8970979		
CH322-111P10	X	16973311	16994311	located_end	16973311
		estimated_end	16994311		
CH322-111P15	3L	24243883	24264883	located_end	24243883
		estimated_end	24264883		
CH322-111P16	X	16753768	16774768	located_end	16753768
		estimated_end	16774768		
CH322-111P18	2R	16552461	16573461	estimated_end	16552461
		located_end	16573461		
CH322-111P19	X	2127848	2148848	estimated_end	2127848
		located_end	2148848		
CH322-111P21	2R	6373404	6394404	located_end	6373404
		estimated_end	6394404		
CH322-112A01	3R	15044167	15065167	located_end	15044167
		estimated_end	15065167		
CH322-112A02	3R	19654256	19675256	located_end	19654256
		estimated_end	19675256		
CH322-112A03	2R	9373603	9394603	located_end	9373603
		estimated_end	9394603		
CH322-112A04	3R	412317	433317	estimated_end	412317
		located_end	433317		
CH322-112A05	3R	5886121	5907121	estimated_end	5886121
		located_end	5907121		
CH322-112A06	X	18516321	18537321	located_end	18516321
		estimated_end	18537321		
CH322-112A08	3RHet	2494888	2515888	located_end	2494888
		estimated_end	2515888		

CH322-112A09	3R	3614445	3635445	located_end	3614445
		estimated_end	3635445		
CH322-112A12	4	993707	1014707	located_end	993707
		estimated_end	1014707		
CH322-112A13	2L	1611582	1632582	located_end	1611582
		estimated_end	1632582		
CH322-112A14	3L	7293507	7314507	estimated_end	7293507
		located_end	7314507		
CH322-112A15	3LHet	2470215	2491215	estimated_end	2470215
		located_end	2491215		
CH322-112A16	3L	1610191	1631191	estimated_end	1610191
		located_end	1631191		
CH322-112A17	3R	26168810	26189810	located_end	26168810
		estimated_end	26189810		
CH322-112A18	3R	5954888	5975888	located_end	5954888
		estimated_end	5975888		
CH322-112A19	X	13823965	13844965	estimated_end	13823965
		located_end	13844965		
CH322-112A22	2R	5613894	5634894	estimated_end	5613894
		located_end	5634894		
CH322-112A24	2L	15149821	15170821	located_end	15149821
		estimated_end	15170821		
CH322-112B01	3L	11216860	11237860	estimated_end	11216860
		located_end	11237860		
CH322-112B02	2R	4771335	4792335	estimated_end	4771335
		located_end	4792335		
CH322-112B03	3R	6231885	6252885	located_end	6231885
		estimated_end	6252885		
CH322-112B06	2R	8524634	8545634	located_end	8524634
		estimated_end	8545634		
CH322-112B07	3L	20621451	20642451	located_end	20621451
		estimated_end	20642451		
CH322-112B08	3L	321547	342547	located_end	321547
		estimated_end	342547		
CH322-112B09	X	11659773	11680773	located_end	11659773
		estimated_end	11680773		
CH322-112B10	3R	14082554	14103554	estimated_end	14082554
		located_end	14103554		
CH322-112B11	X	19387159	19408159	estimated_end	19387159
		located_end	19408159		
CH322-112B12	3R	933256	954256	located_end	933256
		estimated_end	954256		
CH322-112B15	3L	14614368	14635368	located_end	14614368
		estimated_end	14635368		
CH322-112B16	3R	9336430	9357430	estimated_end	9336430
		located_end	9357430		
CH322-112B17	3R	18209876	18230876	estimated_end	18209876
		located_end	18230876		
CH322-112B18	3R	4754447	4775447	located_end	4754447
		estimated_end	4775447		
CH322-112B19	X	19524490	19545490	estimated_end	19524490
		located_end	19545490		
CH322-112B20	2R	6606101	6627101	estimated_end	6606101
		located_end	6627101		

CH322-112B21	2L	16467889	16488889	estimated_end	16467889
		located_end	16488889		
CH322-112B22	X	11967932	11988932	located_end	11967932
		estimated_end	11988932		
CH322-112B23	2L	11159981	11180981	located_end	11159981
		estimated_end	11180981		
CH322-112B24	3L	5548981	5569981	located_end	5548981
		estimated_end	5569981		
CH322-112C01	2L	8975493	8996493	estimated_end	8975493
		located_end	8996493		
CH322-112C02	3L	3032288	3053288	located_end	3032288
		estimated_end	3053288		
CH322-112C03	3R	10579473	10600473	located_end	10579473
		estimated_end	10600473		
CH322-112C04	3L	21403937	21424937	estimated_end	21403937
		located_end	21424937		
CH322-112C05	3L	20699879	20720879	located_end	20699879
		estimated_end	20720879		
CH322-112C06	3L	1813579	1834579	estimated_end	1813579
		located_end	1834579		
CH322-112C11	X	2490898	2511898	located_end	2490898
		estimated_end	2511898		
CH322-112C13	3R	2957589	2978589	located_end	2957589
		estimated_end	2978589		
CH322-112C14	2R	3665059	3686059	estimated_end	3665059
		located_end	3686059		
CH322-112C17	3R	18752689	18773689	located_end	18752689
		estimated_end	18773689		
CH322-112C18	2R	17657456	17678456	estimated_end	17657456
		located_end	17678456		
CH322-112C19	2L	5439543	5460543	estimated_end	5439543
		located_end	5460543		
CH322-112C20	3L	12738521	12759521	estimated_end	12738521
		located_end	12759521		
CH322-112C21	2L	15789404	15810404	located_end	15789404
		estimated_end	15810404		
CH322-112C22	2L	16722886	16743886	located_end	16722886
		estimated_end	16743886		
CH322-112C23	3L	17945759	17966759	estimated_end	17945759
		located_end	17966759		
CH322-112C24	2L	20258735	20279735	located_end	20258735
		estimated_end	20279735		
CH322-112D01	3R	23100147	23121147	estimated_end	23100147
		located_end	23121147		
CH322-112D02	X	18578790	18599790	located_end	18578790
		estimated_end	18599790		
CH322-112D03	3R	24222776	24243776	estimated_end	24222776
		located_end	24243776		
CH322-112D05	3R	20044512	20065512	located_end	20044512
		estimated_end	20065512		
CH322-112D06	2L	4046051	4067051	located_end	4046051
		estimated_end	4067051		
CH322-112D07	2L	15483249	15504249	located_end	15483249
		estimated_end	15504249		

CH322-112D08	X	15845451	15866451	estimated_end	15845451
		located_end	15866451		
CH322-112D09	3L	15069418	15090418	estimated_end	15069418
		located_end	15090418		
CH322-112D10	3R	21572051	21593051	located_end	21572051
		estimated_end	21593051		
CH322-112D12	3R	12595659	12616659	estimated_end	12595659
		located_end	12616659		
CH322-112D13	3R	15247836	15268836	located_end	15247836
		estimated_end	15268836		
CH322-112D14	2R	20572953	20593953	estimated_end	20572953
		located_end	20593953		
CH322-112D15	ArmU	1631015	1652015	estimated_end	1631015
		located_end	1652015		
CH322-112D16	3L	19554192	19575192	estimated_end	19554192
		located_end	19575192		
CH322-112D17	3L	20489264	20510264	estimated_end	20489264
		located_end	20510264		
CH322-112D18	3R	15921977	15942977	located_end	15921977
		estimated_end	15942977		
CH322-112D19	4	130052	151052	located_end	130052
		estimated_end	151052		
CH322-112D20	2R	19222969	19243969	estimated_end	19222969
		located_end	19243969		
CH322-112D21	X	19544070	19565070	estimated_end	19544070
		located_end	19565070		
CH322-112D22	2L	12969942	12990942	estimated_end	12969942
		located_end	12990942		
CH322-112D23	3L	20434085	20455085	estimated_end	20434085
		located_end	20455085		
CH322-112D24	3L	21640542	21661542	estimated_end	21640542
		located_end	21661542		
CH322-112E02	3R	3260033	3281033	estimated_end	3260033
		located_end	3281033		
CH322-112E03	3L	7266395	7287395	located_end	7266395
		estimated_end	7287395		
CH322-112E04	3R	14831148	14852148	estimated_end	14831148
		located_end	14852148		
CH322-112E06	3R	21306638	21327638	estimated_end	21306638
		located_end	21327638		
CH322-112E08	3R	27558423	27579423	located_end	27558423
		estimated_end	27579423		
CH322-112E09	2L	18335728	18356728	estimated_end	18335728
		located_end	18356728		
CH322-112E12	2L	7755504	7776504	estimated_end	7755504
		located_end	7776504		
CH322-112E17	X	18686314	18707314	located_end	18686314
		estimated_end	18707314		
CH322-112E18	3R	21841592	21862592	estimated_end	21841592
		located_end	21862592		
CH322-112E20	2R	19749399	19770399	estimated_end	19749399
		located_end	19770399		
CH322-112E21	X	15729782	15750782	located_end	15729782
		estimated_end	15750782		

CH322-112E23	3LHet	410357	431357	located_end	410357
	estimated_end	431357			
CH322-112E24	3R	9858571	9879571	located_end	9858571
	estimated_end	9879571			
CH322-112F01	2L	1913982	1934982	estimated_end	1913982
	located_end	1934982			
CH322-112F02	3R	23251255	23272255	estimated_end	23251255
	located_end	23272255			
CH322-112F04	3R	17270541	17291541	estimated_end	17270541
	located_end	17291541			
CH322-112F06	2L	7881042	7902042	located_end	7881042
	estimated_end	7902042			
CH322-112F07	3L	516070	537070	located_end	516070
	estimated_end	537070			
CH322-112F08	X	11093657	11114657	estimated_end	11093657
	located_end	11114657			
CH322-112F10	3R	20158791	20179791	estimated_end	20158791
	located_end	20179791			
CH322-112F12	X	4468424	4489424	located_end	4468424
	estimated_end	4489424			
CH322-112F14	2R	6530898	6551898	located_end	6530898
	estimated_end	6551898			
CH322-112F15	2L	5347041	5368041	located_end	5347041
	estimated_end	5368041			
CH322-112F16	3L	11740765	11761765	located_end	11740765
	estimated_end	11761765			
CH322-112F17	X	16836401	16857401	estimated_end	16836401
	located_end	16857401			
CH322-112F18	2L	739648	760648	located_end	739648
	estimated_end	760648			
CH322-112F21	2L	928143	949143	located_end	928143
	estimated_end	949143			
CH322-112F22	3R	17470696	17491696	estimated_end	17470696
	located_end	17491696			
CH322-112F23	3R	12298412	12319412	estimated_end	12298412
	located_end	12319412			
CH322-112F24	2R	8788364	8809364	located_end	8788364
	estimated_end	8809364			
CH322-112G01	2L	8091107	8112107	estimated_end	8091107
	located_end	8112107			
CH322-112G04	2R	2765457	2786457	estimated_end	2765457
	located_end	2786457			
CH322-112G05	2R	12031375	12052375	estimated_end	12031375
	located_end	12052375			
CH322-112G11	3R	19967800	19988800	located_end	19967800
	estimated_end	19988800			
CH322-112G12	3R	2184168	2205168	located_end	2184168
	estimated_end	2205168			
CH322-112G13	3R	1458339	1479339	estimated_end	1458339
	located_end	1479339			
CH322-112G14	2R	4788536	4809536	estimated_end	4788536
	located_end	4809536			
CH322-112G17	3R	18409922	18430922	estimated_end	18409922
	located_end	18430922			

CH322-112G18	2R	19966543	19987543	located_end	19966543
		estimated_end	19987543		
CH322-112G19	3R	23067358	23088358	estimated_end	23067358
		located_end	23088358		
CH322-112G20	3L	6559507	6580507	located_end	6559507
		estimated_end	6580507		
CH322-112G21	X	1948315	1969315	located_end	1948315
		estimated_end	1969315		
CH322-112G22	3R	5740553	5761553	estimated_end	5740553
		located_end	5761553		
CH322-112H01	2L	8756009	8777009	located_end	8756009
		estimated_end	8777009		
CH322-112H04	3L	4953974	4974974	located_end	4953974
		estimated_end	4974974		
CH322-112H05	2L	10852162	10873162	located_end	10852162
		estimated_end	10873162		
CH322-112H06	3L	16388980	16409980	estimated_end	16388980
		located_end	16409980		
CH322-112H07	3L	15850446	15871446	estimated_end	15850446
		located_end	15871446		
CH322-112H10	2R	14492597	14513597	estimated_end	14492597
		located_end	14513597		
CH322-112H11	2L	5534382	5555382	located_end	5534382
		estimated_end	5555382		
CH322-112H13	2R	11880702	11901702	estimated_end	11880702
		located_end	11901702		
CH322-112H14	2L	5281019	5302019	estimated_end	5281019
		located_end	5302019		
CH322-112H15	2L	8947940	8968940	located_end	8947940
		estimated_end	8968940		
CH322-112H16	2L	4946719	4967719	located_end	4946719
		estimated_end	4967719		
CH322-112H18	3R	20686382	20707382	located_end	20686382
		estimated_end	20707382		
CH322-112H19	2R	6203837	6224837	located_end	6203837
		estimated_end	6224837		
CH322-112H21	3R	26339103	26360103	located_end	26339103
		estimated_end	26360103		
CH322-112H22	X	10337489	10358489	located_end	10337489
		estimated_end	10358489		
CH322-112H24	3L	648178	669178	located_end	648178
		estimated_end	669178		
CH322-112I02	3R	13854448	13875448	located_end	13854448
		estimated_end	13875448		
CH322-112I04	3L	20299704	20320704	located_end	20299704
		estimated_end	20320704		
CH322-112I05	3R	7455638	7476638	estimated_end	7455638
		located_end	7476638		
CH322-112I06	X	8111359	8132359	estimated_end	8111359
		located_end	8132359		
CH322-112I08	3R	14386720	14407720	estimated_end	14386720
		located_end	14407720		
CH322-112I10	X	13642190	13663190	estimated_end	13642190
		located_end	13663190		

CH322-112I13	3R	20667504	20688504	estimated_end	20667504
		located_end	20688504		
CH322-112I14	2R	3780439	3801439	located_end	3780439
		estimated_end	3801439		
CH322-112I16	X	3137896	3158896	located_end	3137896
		estimated_end	3158896		
CH322-112I18	2RHet	3140604	3161604	located_end	3140604
		estimated_end	3161604		
CH322-112I21	2R	16875144	16896144	located_end	16875144
		estimated_end	16896144		
CH322-112I22	2R	1282699	1303699	located_end	1282699
		estimated_end	1303699		
CH322-112I23	2L	14080777	14101777	estimated_end	14080777
		located_end	14101777		
CH322-112I24	3R	3177639	3198639	estimated_end	3177639
		located_end	3198639		
CH322-112J01	2L	12376965	12397965	estimated_end	12376965
		located_end	12397965		
CH322-112J02	2R	5360423	5381423	estimated_end	5360423
		located_end	5381423		
CH322-112J04	2L	21717252	21738252	located_end	21717252
		estimated_end	21738252		
CH322-112J05	3R	1267116	1288116	estimated_end	1267116
		located_end	1288116		
CH322-112J06	X	14701252	14722252	located_end	14701252
		estimated_end	14722252		
CH322-112J09	2R	2800818	2821818	estimated_end	2800818
		located_end	2821818		
CH322-112J10	X	11355105	11376105	estimated_end	11355105
		located_end	11376105		
CH322-112J11	2R	12719898	12740898	estimated_end	12719898
		located_end	12740898		
CH322-112J12	2R	19014963	19035963	estimated_end	19014963
		located_end	19035963		
CH322-112J13	2R	10109073	10130073	estimated_end	10109073
		located_end	10130073		
CH322-112J14	2R	11815864	11836864	estimated_end	11815864
		located_end	11836864		
CH322-112J15	3L	7760564	7781564	located_end	7760564
		estimated_end	7781564		
CH322-112J16	XHet	44262 65262	located_end 44262	estimated_end	
		65262			
CH322-112J18	2L	15440070	15461070	estimated_end	15440070
		located_end	15461070		
CH322-112J19	2R	2130936	2151936	located_end	2130936
		estimated_end	2151936		
CH322-112J20	3L	20864374	20885374	estimated_end	20864374
		located_end	20885374		
CH322-112J21	3R	16234275	16255275	located_end	16234275
		estimated_end	16255275		
CH322-112J22	2L	8628473	8649473	located_end	8628473
		estimated_end	8649473		
CH322-112J24	4	227135	248135	located_end	227135
		estimated_end	248135		

CH322-112K01	2R	1679709	1700709	located_end	1679709
		estimated_end	1700709		
CH322-112K08	X	18500685	18521685	estimated_end	18500685
		located_end	18521685		
CH322-112K10	3R	20553315	20574315	estimated_end	20553315
		located_end	20574315		
CH322-112K16	3L	5114471	5135471	estimated_end	5114471
		located_end	5135471		
CH322-112K17	2L	15732952	15753952	located_end	15732952
		estimated_end	15753952		
CH322-112K18	2L	8489461	8510461	estimated_end	8489461
		located_end	8510461		
CH322-112K19	3L	3812159	3833159	located_end	3812159
		estimated_end	3833159		
CH322-112K20	X	3994624	4015624	located_end	3994624
		estimated_end	4015624		
CH322-112K21	2R	9929259	9950259	located_end	9929259
		estimated_end	9950259		
CH322-112K22	3L	8830724	8851724	estimated_end	8830724
		located_end	8851724		
CH322-112K23	2R	6599447	6620447	estimated_end	6599447
		located_end	6620447		
CH322-112K24	3R	15201956	15222956	located_end	15201956
		estimated_end	15222956		
CH322-112L02	2R	9768993	9789993	located_end	9768993
		estimated_end	9789993		
CH322-112L06	3R	1186058	1207058	estimated_end	1186058
		located_end	1207058		
CH322-112L07	2R	7374923	7395923	located_end	7374923
		estimated_end	7395923		
CH322-112L08	3L	22424294	22445294	located_end	22424294
		estimated_end	22445294		
CH322-112L10	2R	12348898	12369898	located_end	12348898
		estimated_end	12369898		
CH322-112L14	3L	8132701	8153701	estimated_end	8132701
		located_end	8153701		
CH322-112L15	2R	10856712	10877712	estimated_end	10856712
		located_end	10877712		
CH322-112L19	X	16838301	16859301	estimated_end	16838301
		located_end	16859301		
CH322-112L20	3R	25758698	25779698	estimated_end	25758698
		located_end	25779698		
CH322-112L21	3R	872345	893345	estimated_end	872345
		located_end	893345		
CH322-112L22	3L	4082484	4103484	located_end	4082484
		estimated_end	4103484		
CH322-112L24	3R	17500028	17521028	estimated_end	17500028
		located_end	17521028		
CH322-112M02	3R	267368	288368	located_end	267368
		estimated_end	288368		
CH322-112M04	2L	6456693	6477693	located_end	6456693
		estimated_end	6477693		
CH322-112M08	3R	17119396	17140396	estimated_end	17119396
		located_end	17140396		

CH322-112M11	2L	7685701	7706701	estimated_end	7685701
		located_end	7706701		
CH322-112M17	3L	624676	645676	estimated_end	624676
		located_end	645676		
CH322-112M19	X	6483863	6504863	estimated_end	6483863
		located_end	6504863		
CH322-112N01	X	8765918	8786918	located_end	8765918
		estimated_end	8786918		
CH322-112N02	3L	5383225	5404225	located_end	5383225
		estimated_end	5404225		
CH322-112N03	2R	3206933	3227933	located_end	3206933
		estimated_end	3227933		
CH322-112N10	3R	3670502	3691502	located_end	3670502
		estimated_end	3691502		
CH322-112N11	2R	12433751	12454751	estimated_end	12433751
		located_end	12454751		
CH322-112N23	2R	6225879	6246879	located_end	6225879
		estimated_end	6246879		
CH322-112N24	3L	9454016	9475016	located_end	9454016
		estimated_end	9475016		
CH322-112O01	2R	233220	254220	estimated_end	233220
		located_end	254220		
CH322-112O04	2R	17206875	17227875	located_end	17206875
		estimated_end	17227875		
CH322-112O07	2R	6742944	6763944	located_end	6742944
		estimated_end	6763944		
CH322-112O24	2R	10671312	10692312	estimated_end	10671312
		located_end	10692312		
CH322-112P01	2L	11245898	11266898	located_end	11245898
		estimated_end	11266898		
CH322-112P02	3L	5874580	5895580	estimated_end	5874580
		located_end	5895580		
CH322-113A15	3L	2665668	2686668	estimated_end	2665668
		located_end	2686668		
CH322-113B03	3L	1399302	1420302	located_end	1399302
		estimated_end	1420302		
CH322-113C04	ArmU	5314077	5335077	estimated_end	5314077
		located_end	5335077		
CH322-113C06	3R	15190905	15211905	located_end	15190905
		estimated_end	15211905		
CH322-113C16	3L	2065670	2086670	estimated_end	2065670
		located_end	2086670		
CH322-113D04	2L	13256711	13277711	located_end	13256711
		estimated_end	13277711		
CH322-113D12	3RHet	16508 37508	16508	estimated_end	16508 located_end
					37508
CH322-113D13	2R	7227007	7248007	located_end	7227007
		estimated_end	7248007		
CH322-113D14	2R	19253671	19274671	estimated_end	19253671
		located_end	19274671		
CH322-113D15	3R	10616919	10637919	estimated_end	10616919
		located_end	10637919		
CH322-113D18	3R	26700189	26721189	estimated_end	26700189
		located_end	26721189		

CH322-113E02	3L	24047719	24068719	located_end	24047719
		estimated_end	24068719		
CH322-113E05	2R	15061519	15082519	located_end	15061519
		estimated_end	15082519		
CH322-113E06	3L	3710295	3731295	estimated_end	3710295
		located_end	3731295		
CH322-113E10	2L	6887749	6908749	estimated_end	6887749
		located_end	6908749		
CH322-113F02	3R	7419336	7440336	estimated_end	7419336
		located_end	7440336		
CH322-113F05	X	6296988	6317988	located_end	6296988
		estimated_end	6317988		
CH322-113F11	3L	5256941	5277941	estimated_end	5256941
		located_end	5277941		
CH322-113F15	X	7675803	7696803	located_end	7675803
		estimated_end	7696803		
CH322-113F21	ArmU	5711472	5732472	located_end	5711472
		estimated_end	5732472		
CH322-113G08	3R	25602417	25623417	located_end	25602417
		estimated_end	25623417		
CH322-113G17	3L	23541168	23562168	estimated_end	23541168
		located_end	23562168		
CH322-113G18	3R	21083713	21104713	located_end	21083713
		estimated_end	21104713		
CH322-113H06	X	21335585	21356585	estimated_end	21335585
		located_end	21356585		
CH322-113H08	2R	7106488	7127488	estimated_end	7106488
		located_end	7127488		
CH322-113H10	3R	16226113	16247113	estimated_end	16226113
		located_end	16247113		
CH322-113H17	2L	8347200	8368200	located_end	8347200
		estimated_end	8368200		
CH322-113I08	2R	6042720	6063720	located_end	6042720
		estimated_end	6063720		
CH322-113I09	2L	7527781	7548781	located_end	7527781
		estimated_end	7548781		
CH322-113I15	2L	3588261	3609261	estimated_end	3588261
		located_end	3609261		
CH322-113I24	3L	3398237	3419237	estimated_end	3398237
		located_end	3419237		
CH322-113J05	3R	16168797	16189797	located_end	16168797
		estimated_end	16189797		
CH322-113J06	2R	17028832	17049832	located_end	17028832
		estimated_end	17049832		
CH322-113J08	3L	14938636	14959636	estimated_end	14938636
		located_end	14959636		
CH322-113J09	2L	3513871	3534871	estimated_end	3513871
		located_end	3534871		
CH322-113J12	2R	11375159	11396159	estimated_end	11375159
		located_end	11396159		
CH322-113J18	2R	20752737	20773737	located_end	20752737
		estimated_end	20773737		
CH322-113K02	2R	3344363	3365363	located_end	3344363
		estimated_end	3365363		

CH322-113K03	X	14822380	14843380	located_end	14822380
		estimated_end	14843380		
CH322-113K11	2R	6198516	6219516	estimated_end	6198516
		located_end	6219516		
CH322-113K12	2R	18119449	18140449	located_end	18119449
		estimated_end	18140449		
CH322-113K15	2R	14902276	14923276	estimated_end	14902276
		located_end	14923276		
CH322-113K17	2R	19731234	19752234	located_end	19731234
		estimated_end	19752234		
CH322-113L05	2L	13943052	13964052	located_end	13943052
		estimated_end	13964052		
CH322-113L11	ArmU	111098	132098	estimated_end	111098
		located_end	132098		
CH322-113L12	2L	22869432	22890432	located_end	22869432
		estimated_end	22890432		
CH322-113L22	X	15718109	15739109	estimated_end	15718109
		located_end	15739109		
CH322-113M07	3R	16417933	16438933	estimated_end	16417933
		located_end	16438933		
CH322-113M09	3R	5043764	5064764	located_end	5043764
		estimated_end	5064764		
CH322-113M23	2L	5111801	5132801	located_end	5111801
		estimated_end	5132801		
CH322-113N11	3L	10697633	10718633	estimated_end	10697633
		located_end	10718633		
CH322-113N12	3L	13050767	13071767	located_end	13050767
		estimated_end	13071767		
CH322-113N16	2L	655951	676951	estimated_end	655951
		located_end	676951		
CH322-113N23	X	11644221	11665221	estimated_end	11644221
		located_end	11665221		
CH322-113O11	2L	22484385	22505385	located_end	22484385
		estimated_end	22505385		
CH322-113O18	2L	14653160	14674160	estimated_end	14653160
		located_end	14674160		
CH322-113O20	3R	15512977	15533977	located_end	15512977
		estimated_end	15533977		
CH322-113O24	3L	1219013	1240013	estimated_end	1219013
		located_end	1240013		
CH322-113P03	3R	24993991	25014991	located_end	24993991
		estimated_end	25014991		
CH322-113P24	3L	5751415	5772415	estimated_end	5751415
		located_end	5772415		
CH322-114A21	3R	6858285	6879285	located_end	6858285
		estimated_end	6879285		
CH322-114C07	3R	10619898	10640898	estimated_end	10619898
		located_end	10640898		
CH322-114C16	2L	10762432	10783432	estimated_end	10762432
		located_end	10783432		
CH322-114C17	ArmU	8268708	8289708	estimated_end	8268708
		located_end	8289708		
CH322-114D06	3R	27698724	27719724	located_end	27698724
		estimated_end	27719724		

CH322-114D07	2R	4359003	4380003	located_end	4359003
		estimated_end	4380003		
CH322-114D08	X	5395973	5416973	located_end	5395973
		estimated_end	5416973		
CH322-114D11	2R	17158957	17179957	located_end	17158957
		estimated_end	17179957		
CH322-114D16	ArmU	8479401	8500401	located_end	8479401
		estimated_end	8500401		
CH322-114E09	2R	10207589	10228589	estimated_end	10207589
		located_end	10228589		
CH322-114E14	3R	138108	159108	estimated_end	138108
		located_end	159108		
CH322-114F05	X	1817197	1838197	located_end	1817197
		estimated_end	1838197		
CH322-114F11	3R	7082076	7103076	located_end	7082076
		estimated_end	7103076		
CH322-114G04	3L	19512498	19533498	located_end	19512498
		estimated_end	19533498		
CH322-114G07	2L	19773986	19794986	estimated_end	19773986
		located_end	19794986		
CH322-114G09	2L	14180690	14201690	located_end	14180690
		estimated_end	14201690		
CH322-114G10	2R	2763202	2784202	located_end	2763202
		estimated_end	2784202		
CH322-114G12	2R	2645826	2666826	located_end	2645826
		estimated_end	2666826		
CH322-114G14	X	3335910	3356910	estimated_end	3335910
		located_end	3356910		
CH322-114G16	2R	5826162	5847162	located_end	5826162
		estimated_end	5847162		
CH322-114H08	2R	19916605	19937605	estimated_end	19916605
		located_end	19937605		
CH322-114H20	2RHet	2199129	2220129	located_end	2199129
		estimated_end	2220129		
CH322-114I03	3R	12400832	12421832	estimated_end	12400832
		located_end	12421832		
CH322-114I10	2L	5565723	5586723	located_end	5565723
		estimated_end	5586723		
CH322-114I18	3R	1103363	1124363	estimated_end	1103363
		located_end	1124363		
CH322-114J05	2L	5753268	5774268	located_end	5753268
		estimated_end	5774268		
CH322-114J17	2L	16705669	16726669	located_end	16705669
		estimated_end	16726669		
CH322-114J24	ArmU	8909023	8930023	located_end	8909023
		estimated_end	8930023		
CH322-114K05	2R	6403484	6424484	estimated_end	6403484
		located_end	6424484		
CH322-114K07	3L	15617597	15638597	located_end	15617597
		estimated_end	15638597		
CH322-114K08	3L	9926529	9947529	estimated_end	9926529
		located_end	9947529		
CH322-114K15	2L	2858222	2879222	estimated_end	2858222
		located_end	2879222		

CH322-114K16	2L	20742642	20763642	estimated_end	20742642
		located_end	20763642		
CH322-114K17	2L	4467214	4488214	estimated_end	4467214
		located_end	4488214		
CH322-114L17	2R	18018940	18039940	estimated_end	18018940
		located_end	18039940		
CH322-114L19	2R	1887057	1908057	located_end	1887057
		estimated_end	1908057		
CH322-114L24	2R	16410677	16431677	estimated_end	16410677
		located_end	16431677		
CH322-114M02	2L	18126491	18147491	located_end	18126491
		estimated_end	18147491		
CH322-114M05	2L	7765246	7786246	located_end	7765246
		estimated_end	7786246		
CH322-114M07	2L	9530241	9551241	estimated_end	9530241
		located_end	9551241		
CH322-114N10	2L	15306525	15327525	estimated_end	15306525
		located_end	15327525		
CH322-114N11	X	4442787	4463787	estimated_end	4442787
		located_end	4463787		
CH322-114O23	ArmU	3030401	3051401	located_end	3030401
		estimated_end	3051401		
CH322-114O24	2R	11378938	11399938	estimated_end	11378938
		located_end	11399938		
CH322-114P16	3L	4828207	4849207	estimated_end	4828207
		located_end	4849207		
CH322-114P20	2R	12091771	12112771	estimated_end	12091771
		located_end	12112771		
CH322-115A03	3L	22359673	22380673	located_end	22359673
		estimated_end	22380673		
CH322-115A07	3R	22705938	22726938	located_end	22705938
		estimated_end	22726938		
CH322-115A11	3R	17849862	17870862	located_end	17849862
		estimated_end	17870862		
CH322-115A12	2R	6184429	6205429	estimated_end	6184429
		located_end	6205429		
CH322-115A15	2L	17010010	17031010	located_end	17010010
		estimated_end	17031010		
CH322-115A16	3R	26764763	26785763	located_end	26764763
		estimated_end	26785763		
CH322-115A17	3R	1219955	1240955	located_end	1219955
		estimated_end	1240955		
CH322-115A22	3L	15530385	15551385	estimated_end	15530385
		located_end	15551385		
CH322-115B06	3R	15875345	15896345	located_end	15875345
		estimated_end	15896345		
CH322-115B20	2L	20657972	20678972	located_end	20657972
		estimated_end	20678972		
CH322-115B24	2RHet	930530	951530	located_end	930530
		estimated_end	951530		
CH322-115C07	3L	1479520	1500520	located_end	1479520
		estimated_end	1500520		
CH322-115C16	ArmU	2080569	2101569	located_end	2080569
		estimated_end	2101569		

CH322-115D05	3L	15907529	15928529	located_end	15907529
		estimated_end	15928529		
CH322-115D18	2RHet	768191	789191	estimated_end	768191
		located_end	789191		
CH322-115E05	2R	10339546	10360546	located_end	10339546
		estimated_end	10360546		
CH322-115E12	ArmU	7023754	7044754	estimated_end	7023754
		located_end	7044754		
CH322-115F02	3L	21427654	21448654	estimated_end	21427654
		located_end	21448654		
CH322-115F07	2R	116154	137154	estimated_end	116154
		located_end	137154		
CH322-115F18	2LHet	10645 31645		estimated_end	10645 located_end
					31645
CH322-115F24	2L	22180117	22201117	estimated_end	22180117
		located_end	22201117		
CH322-115G05	2L	3832154	3853154	estimated_end	3832154
		located_end	3853154		
CH322-115G07	2L	16045461	16066461	estimated_end	16045461
		located_end	16066461		
CH322-115H14	3L	13381341	13402341	estimated_end	13381341
		located_end	13402341		
CH322-115J02	X	12568036	12589036	located_end	12568036
		estimated_end	12589036		
CH322-115K13	2L	20982910	21003910	estimated_end	20982910
		located_end	21003910		
CH322-115M01	3LHet	614592	635592	estimated_end	614592
		located_end	635592		
CH322-115M10	2L	14471626	14492626	located_end	14471626
		estimated_end	14492626		
CH322-115M23	2R	2994104	3015104	located_end	2994104
		estimated_end	3015104		
CH322-115N10	3L	20946147	20967147	estimated_end	20946147
		located_end	20967147		
CH322-115O01	X	16488377	16509377	estimated_end	16488377
		located_end	16509377		
CH322-115O23	X	20482176	20503176	located_end	20482176
		estimated_end	20503176		
CH322-115O24	ArmU	666077	687077	estimated_end	666077
		located_end	687077		
CH322-115P01	2R	3946650	3967650	estimated_end	3946650
		located_end	3967650		
CH322-115P02	3L	18869497	18890497	located_end	18869497
		estimated_end	18890497		
CH322-115P03	2L	9430505	9451505	estimated_end	9430505
		located_end	9451505		
CH322-115P10	X	3866882	3887882	located_end	3866882
		estimated_end	3887882		
CH322-115P23	X	72409 93409		located_end	72409 estimated_end
					93409
CH322-115P24	2L	11531933	11552933	located_end	11531933
		estimated_end	11552933		
CH322-116A01	X	14807474	14828474	located_end	14807474
		estimated_end	14828474		

CH322-116A06	2RHet	1575605	1596605	estimated_end	1575605
		located_end	1596605		
CH322-116A21	3R	11471447	11492447	estimated_end	11471447
		located_end	11492447		
CH322-116B20	2L	21279460	21300460	estimated_end	21279460
		located_end	21300460		
CH322-116B23	3RHet	1378924	1399924	located_end	1378924
		estimated_end	1399924		
CH322-116C03	2RHet	3142226	3163226	located_end	3142226
		estimated_end	3163226		
CH322-116C07	2L	17500043	17521043	located_end	17500043
		estimated_end	17521043		
CH322-116C23	X	6433880	6454880	estimated_end	6433880
		located_end	6454880		
CH322-116D02	ArmU	1227038	1248038	estimated_end	1227038
		located_end	1248038		
CH322-116D04	3R	20452186	20473186	estimated_end	20452186
		located_end	20473186		
CH322-116D07	2R	1622315	1643315	estimated_end	1622315
		located_end	1643315		
CH322-116D18	2RHet	2114590	2135590	estimated_end	2114590
		located_end	2135590		
CH322-116E02	3R	14857562	14878562	located_end	14857562
		estimated_end	14878562		
CH322-116E03	2R	1549709	1570709	estimated_end	1549709
		located_end	1570709		
CH322-116E10	3R	25623922	25644922	estimated_end	25623922
		located_end	25644922		
CH322-116F02	X	17769046	17790046	located_end	17769046
		estimated_end	17790046		
CH322-116F24	X	3766130	3787130	estimated_end	3766130
		located_end	3787130		
CH322-116G01	2L	6354894	6375894	located_end	6354894
		estimated_end	6375894		
CH322-116G08	2L	21177059	21198059	located_end	21177059
		estimated_end	21198059		
CH322-116G12	2R	256459	277459	estimated_end	256459
		located_end	277459		
CH322-116G21	ArmU	1957580	1978580	estimated_end	1957580
		located_end	1978580		
CH322-116H08	3R	24597444	24618444	located_end	24597444
		estimated_end	24618444		
CH322-116H10	3R	27689680	27710680	located_end	27689680
		estimated_end	27710680		
CH322-116H24	X	6874056	6895056	estimated_end	6874056
		located_end	6895056		
CH322-116I04	2R	9049376	9070376	located_end	9049376
		estimated_end	9070376		
CH322-116I14	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-116I19	ArmU	7471511	7492511	estimated_end	7471511
		located_end	7492511		
CH322-116J06	2L	1551491	1572491	located_end	1551491
		estimated_end	1572491		

CH322-116J13	3R	21831345	21852345	located_end	21831345
		estimated_end	21852345		
CH322-116K04	2R	8757135	8778135	estimated_end	8757135
		located_end	8778135		
CH322-116K07	3R	5736589	5757589	located_end	5736589
		estimated_end	5757589		
CH322-116L03	3L	3715963	3736963	estimated_end	3715963
		located_end	3736963		
CH322-116L07	2L	21132890	21153890	located_end	21132890
		estimated_end	21153890		
CH322-116M06	3L	7415652	7436652	estimated_end	7415652
		located_end	7436652		
CH322-116M08	2L	10746063	10767063	estimated_end	10746063
		located_end	10767063		
CH322-116M15	ArmU	9630624	9651624	estimated_end	9630624
		located_end	9651624		
CH322-116M24	2L	14474820	14495820	located_end	14474820
		estimated_end	14495820		
CH322-116N09	X	21866981	21887981	located_end	21866981
		estimated_end	21887981		
CH322-116N13	3L	24229525	24250525	located_end	24229525
		estimated_end	24250525		
CH322-116N16	3L	4420910	4441910	estimated_end	4420910
		located_end	4441910		
CH322-116O02	2R	16761296	16782296	located_end	16761296
		estimated_end	16782296		
CH322-116O05	ArmU	7761852	7782852	located_end	7761852
		estimated_end	7782852		
CH322-116O07	3L	7537062	7558062	estimated_end	7537062
		located_end	7558062		
CH322-116O08	ArmU	9233870	9254870	located_end	9233870
		estimated_end	9254870		
CH322-116O12	ArmU	8440914	8461914	estimated_end	8440914
		located_end	8461914		
CH322-116O14	3L	22513853	22534853	located_end	22513853
		estimated_end	22534853		
CH322-116P02	2R	12430509	12451509	estimated_end	12430509
		located_end	12451509		
CH322-116P24	2R	560602	581602	located_end	560602
		estimated_end	581602		
CH322-117A02	2L	7476132	7497132	located_end	7476132
		estimated_end	7497132		
CH322-117A03	3L	1542574	1563574	estimated_end	1542574
		located_end	1563574		
CH322-117A05	2R	1019391	1040391	estimated_end	1019391
		located_end	1040391		
CH322-117A06	3L	20749472	20770472	located_end	20749472
		estimated_end	20770472		
CH322-117A09	2R	1828647	1849647	located_end	1828647
		estimated_end	1849647		
CH322-117A10	X	2400719	2421719	located_end	2400719
		estimated_end	2421719		
CH322-117A11	3R	5239950	5260950	located_end	5239950
		estimated_end	5260950		

CH322-117A12	3R	19554633	19575633	located_end	19554633
		estimated_end	19575633		
CH322-117A13	3R	12416570	12437570	estimated_end	12416570
		located_end	12437570		
CH322-117A14	2L	15026351	15047351	estimated_end	15026351
		located_end	15047351		
CH322-117A15	3R	1262148	1283148	located_end	1262148
		estimated_end	1283148		
CH322-117A16	2L	20765108	20786108	estimated_end	20765108
		located_end	20786108		
CH322-117A17	2L	14464094	14485094	estimated_end	14464094
		located_end	14485094		
CH322-117A19	3R	19453446	19474446	estimated_end	19453446
		located_end	19474446		
CH322-117A20	2L	3349489	3370489	located_end	3349489
		estimated_end	3370489		
CH322-117A21	2R	11072907	11093907	located_end	11072907
		estimated_end	11093907		
CH322-117A22	3L	8976865	8997865	located_end	8976865
		estimated_end	8997865		
CH322-117A24	2L	11213706	11234706	estimated_end	11213706
		located_end	11234706		
CH322-117B01	3R	10676148	10697148	estimated_end	10676148
		located_end	10697148		
CH322-117B02	2L	15390076	15411076	estimated_end	15390076
		located_end	15411076		
CH322-117B04	X	20235441	20256441	estimated_end	20235441
		located_end	20256441		
CH322-117B05	2R	12837281	12858281	estimated_end	12837281
		located_end	12858281		
CH322-117B06	2L	18714649	18735649	estimated_end	18714649
		located_end	18735649		
CH322-117B07	X	17717340	17738340	estimated_end	17717340
		located_end	17738340		
CH322-117B08	3L	24123468	24144468	located_end	24123468
		estimated_end	24144468		
CH322-117B10	2R	7005938	7026938	located_end	7005938
		estimated_end	7026938		
CH322-117B11	3RHet	1193821	1214821	estimated_end	1193821
		located_end	1214821		
CH322-117B13	X	17599267	17620267	located_end	17599267
		estimated_end	17620267		
CH322-117B14	3R	8355738	8376738	located_end	8355738
		estimated_end	8376738		
CH322-117B15	3L	14496133	14517133	located_end	14496133
		estimated_end	14517133		
CH322-117B16	3R	12399517	12420517	estimated_end	12399517
		located_end	12420517		
CH322-117B19	3R	16009834	16030834	located_end	16009834
		estimated_end	16030834		
CH322-117B21	X	13168396	13189396	located_end	13168396
		estimated_end	13189396		
CH322-117B22	3R	20860583	20881583	estimated_end	20860583
		located_end	20881583		

CH322-117C01	2R	3583300	3604300	estimated_end	3583300
		located_end	3604300		
CH322-117C02	3L	21545221	21566221	located_end	21545221
		estimated_end	21566221		
CH322-117C03	3R	8859904	8880904	located_end	8859904
		estimated_end	8880904		
CH322-117C11	2L	8274583	8295583	estimated_end	8274583
		located_end	8295583		
CH322-117C15	3L	4112420	4133420	located_end	4112420
		estimated_end	4133420		
CH322-117C16	3R	13638040	13659040	located_end	13638040
		estimated_end	13659040		
CH322-117C17	3R	7142318	7163318	estimated_end	7142318
		located_end	7163318		
CH322-117C18	2L	4712025	4733025	estimated_end	4712025
		located_end	4733025		
CH322-117C19	2R	978893	999893	located_end	978893
		estimated_end	999893		
CH322-117C20	3R	25241735	25262735	estimated_end	25241735
		located_end	25262735		
CH322-117C21	3L	6792017	6813017	located_end	6792017
		estimated_end	6813017		
CH322-117C23	3RHet	1903185	1924185	estimated_end	1903185
		located_end	1924185		
CH322-117D02	3R	168828	189828	estimated_end	168828
		located_end	189828		
CH322-117D03	2L	3340039	3361039	estimated_end	3340039
		located_end	3361039		
CH322-117D05	2R	9403204	9424204	located_end	9403204
		estimated_end	9424204		
CH322-117D08	3R	10434527	10455527	located_end	10434527
		estimated_end	10455527		
CH322-117D12	2R	19875916	19896916	estimated_end	19875916
		located_end	19896916		
CH322-117D13	X	17813320	17834320	estimated_end	17813320
		located_end	17834320		
CH322-117D15	2L	19076701	19097701	estimated_end	19076701
		located_end	19097701		
CH322-117D17	2R	8660685	8681685	located_end	8660685
		estimated_end	8681685		
CH322-117D18	ArmU	221179	242179	located_end	221179
		estimated_end	242179		
CH322-117D20	3R	21826968	21847968	located_end	21826968
		estimated_end	21847968		
CH322-117D22	3R	27597261	27618261	estimated_end	27597261
		located_end	27618261		
CH322-117D24	X	18181700	18202700	located_end	18181700
		estimated_end	18202700		
CH322-117E13	2R	10098212	10119212	estimated_end	10098212
		located_end	10119212		
CH322-117E17	2R	20935621	20956621	located_end	20935621
		estimated_end	20956621		
CH322-117E18	2L	19065586	19086586	located_end	19065586
		estimated_end	19086586		

CH322-117E19	2R	3029053	3050053	located_end	3029053
		estimated_end	3050053		
CH322-117E20	2R	10461132	10482132	estimated_end	10461132
		located_end	10482132		
CH322-117E21	3R	12769340	12790340	located_end	12769340
		estimated_end	12790340		
CH322-117E22	3R	1160527	1181527	located_end	1160527
		estimated_end	1181527		
CH322-117E23	X	20689453	20710453	located_end	20689453
		estimated_end	20710453		
CH322-117E24	3R	2719796	2740796	located_end	2719796
		estimated_end	2740796		
CH322-117F02	3L	4706156	4727156	located_end	4706156
		estimated_end	4727156		
CH322-117F03	3L	9454016	9475016	located_end	9454016
		estimated_end	9475016		
CH322-117F11	ArmU	9775448	9796448	estimated_end	9775448
		located_end	9796448		
CH322-117F13	ArmU	8682403	8703403	located_end	8682403
		estimated_end	8703403		
CH322-117F15	3L	19954323	19975323	located_end	19954323
		estimated_end	19975323		
CH322-117F19	3L	7720094	7741094	located_end	7720094
		estimated_end	7741094		
CH322-117F20	3L	17928135	17949135	estimated_end	17928135
		located_end	17949135		
CH322-117F23	3L	24181306	24202306	estimated_end	24181306
		located_end	24202306		
CH322-117F24	3L	23214910	23235910	estimated_end	23214910
		located_end	23235910		
CH322-117G01	2R	4568005	4589005	estimated_end	4568005
		located_end	4589005		
CH322-117G03	2R	11886849	11907849	located_end	11886849
		estimated_end	11907849		
CH322-117G04	3L	880175	901175	located_end	880175
		estimated_end	901175		
CH322-117G12	3L	21973343	21994343	estimated_end	21973343
		located_end	21994343		
CH322-117G16	3L	14415754	14436754	estimated_end	14415754
		located_end	14436754		
CH322-117G19	X	19939941	19960941	located_end	19939941
		estimated_end	19960941		
CH322-117G21	3R	8385830	8406830	estimated_end	8385830
		located_end	8406830		
CH322-117G23	YHet	22674 43674	estimated_end	22674	located_end
		43674			
CH322-117G24	3L	19698000	19719000	located_end	19698000
		estimated_end	19719000		
CH322-117H02	3L	2701137	2722137	estimated_end	2701137
		located_end	2722137		
CH322-117H19	3R	24625116	24646116	estimated_end	24625116
		located_end	24646116		
CH322-117H20	X	22091049	22112049	located_end	22091049
		estimated_end	22112049		

CH322-117H21	X	15442747	15463747	estimated_end	15442747
		located_end	15463747		
CH322-117H23	2R	17933698	17954698	located_end	17933698
		estimated_end	17954698		
CH322-117I01	2R	1660478	1681478	estimated_end	1660478
		located_end	1681478		
CH322-117I10	3R	21907859	21928859	located_end	21907859
		estimated_end	21928859		
CH322-117I21	2L	13953334	13974334	estimated_end	13953334
		located_end	13974334		
CH322-117I22	3R	7800251	7821251	located_end	7800251
		estimated_end	7821251		
CH322-117I23	2L	7287701	7308701	located_end	7287701
		estimated_end	7308701		
CH322-117J02	2R	1183268	1204268	located_end	1183268
		estimated_end	1204268		
CH322-117J13	3L	17864383	17885383	estimated_end	17864383
		located_end	17885383		
CH322-117J17	3R	4134340	4155340	located_end	4134340
		estimated_end	4155340		
CH322-117J18	3R	26358209	26379209	estimated_end	26358209
		located_end	26379209		
CH322-117J19	3L	712952	733952	estimated_end	712952
		located_end	733952		
CH322-117J20	X	16337944	16358944	estimated_end	16337944
		located_end	16358944		
CH322-117J23	2R	2366505	2387505	estimated_end	2366505
		located_end	2387505		
CH322-117J24	X	5667627	5688627	located_end	5667627
		estimated_end	5688627		
CH322-117K01	4	892886	913886	estimated_end	892886
		located_end	913886		
CH322-117K14	2L	16756072	16777072	estimated_end	16756072
		located_end	16777072		
CH322-117K17	3R	24989631	25010631	estimated_end	24989631
		located_end	25010631		
CH322-117K18	4	888686	909686	located_end	888686
		estimated_end	909686		
CH322-117K19	X	20164659	20185659	estimated_end	20164659
		located_end	20185659		
CH322-117K20	2R	5214 26214	5214	estimated_end	5214 located_end
		26214			
CH322-117K22	2R	3844634	3865634	located_end	3844634
		estimated_end	3865634		
CH322-117L01	3L	858195	879195	estimated_end	858195
		located_end	879195		
CH322-117L02	3R	10434790	10455790	estimated_end	10434790
		located_end	10455790		
CH322-117L03	2L	9861199	9882199	located_end	9861199
		estimated_end	9882199		
CH322-117L05	2R	10863843	10884843	estimated_end	10863843
		located_end	10884843		
CH322-117L07	3L	10437255	10458255	estimated_end	10437255
		located_end	10458255		

CH322-117L08	2L	22015001	22036001	estimated_end	22015001
		located_end	22036001		
CH322-117L09	2R	18904829	18925829	estimated_end	18904829
		located_end	18925829		
CH322-117L10	3R	5809380	5830380	located_end	5809380
		estimated_end	5830380		
CH322-117L15	2L	15304054	15325054	estimated_end	15304054
		located_end	15325054		
CH322-117L16	3R	9536255	9557255	located_end	9536255
		estimated_end	9557255		
CH322-117L18	2R	16178353	16199353	located_end	16178353
		estimated_end	16199353		
CH322-117L19	2R	11353230	11374230	located_end	11353230
		estimated_end	11374230		
CH322-117L20	3R	19851018	19872018	estimated_end	19851018
		located_end	19872018		
CH322-117L21	2R	7834285	7855285	estimated_end	7834285
		located_end	7855285		
CH322-117L23	3L	16509553	16530553	estimated_end	16509553
		located_end	16530553		
CH322-117L24	3R	11287746	11308746	located_end	11287746
		estimated_end	11308746		
CH322-117M02	3R	22916311	22937311	estimated_end	22916311
		located_end	22937311		
CH322-117M03	3L	10625637	10646637	estimated_end	10625637
		located_end	10646637		
CH322-117M11	2R	12191718	12212718	estimated_end	12191718
		located_end	12212718		
CH322-117M12	3R	23053519	23074519	located_end	23053519
		estimated_end	23074519		
CH322-117M14	3L	21532288	21553288	located_end	21532288
		estimated_end	21553288		
CH322-117M19	2R	20777739	20798739	estimated_end	20777739
		located_end	20798739		
CH322-117M20	2R	14863320	14884320	located_end	14863320
		estimated_end	14884320		
CH322-117M22	X	378203	399203	located_end	378203
		estimated_end	399203		
CH322-117M23	2L	6044603	6065603	estimated_end	6044603
		located_end	6065603		
CH322-117M24	2R	3647086	3668086	located_end	3647086
		estimated_end	3668086		
CH322-117N01	3R	27560264	27581264	estimated_end	27560264
		located_end	27581264		
CH322-117N02	3L	20703749	20724749	located_end	20703749
		estimated_end	20724749		
CH322-117N03	2RHet	2315516	2336516	located_end	2315516
		estimated_end	2336516		
CH322-117N04	2R	18945264	18966264	located_end	18945264
		estimated_end	18966264		
CH322-117N05	2R	11657773	11678773	estimated_end	11657773
		located_end	11678773		
CH322-117N11	2R	4005544	4026544	located_end	4005544
		estimated_end	4026544		

CH322-117N15	X	14968220	14989220	located_end	14968220
		estimated_end	14989220		
CH322-117N17	2R	19551469	19572469	estimated_end	19551469
		located_end	19572469		
CH322-117N20	2R	10370707	10391707	located_end	10370707
		estimated_end	10391707		
CH322-117O01	3L	13712024	13733024	estimated_end	13712024
		located_end	13733024		
CH322-117O02	2L	2229476	2250476	located_end	2229476
		estimated_end	2250476		
CH322-117O04	3R	26429772	26450772	estimated_end	26429772
		located_end	26450772		
CH322-117O05	3RHet	2026911	2047911	estimated_end	2026911
		located_end	2047911		
CH322-117O06	2R	9769773	9790773	located_end	9769773
		estimated_end	9790773		
CH322-117O08	2L	20848261	20869261	estimated_end	20848261
		located_end	20869261		
CH322-117O09	3R	21000025	21021025	located_end	21000025
		estimated_end	21021025		
CH322-117O10	2L	1131799	1152799	estimated_end	1131799
		located_end	1152799		
CH322-117O13	X	12785250	12806250	located_end	12785250
		estimated_end	12806250		
CH322-117O14	3L	7628654	7649654	located_end	7628654
		estimated_end	7649654		
CH322-117O15	X	15181878	15202878	located_end	15181878
		estimated_end	15202878		
CH322-117O18	3LHet	805110	826110	estimated_end	805110
		located_end	826110		
CH322-117O19	3R	17326914	17347914	located_end	17326914
		estimated_end	17347914		
CH322-117O20	2R	20271418	20292418	located_end	20271418
		estimated_end	20292418		
CH322-117O21	3L	2689379	2710379	estimated_end	2689379
		located_end	2710379		
CH322-117O22	2R	12312838	12333838	estimated_end	12312838
		located_end	12333838		
CH322-117P01	2L	2062540	2083540	estimated_end	2062540
		located_end	2083540		
CH322-117P02	3R	6046309	6067309	estimated_end	6046309
		located_end	6067309		
CH322-117P03	3L	4790272	4811272	estimated_end	4790272
		located_end	4811272		
CH322-117P04	3L	9479739	9500739	estimated_end	9479739
		located_end	9500739		
CH322-117P05	2R	12640440	12661440	located_end	12640440
		estimated_end	12661440		
CH322-117P07	3L	19938860	19959860	estimated_end	19938860
		located_end	19959860		
CH322-117P08	2L	13048626	13069626	estimated_end	13048626
		located_end	13069626		
CH322-117P09	3R	17030725	17051725	estimated_end	17030725
		located_end	17051725		

CH322-117P10	2L	5979891	6000891	estimated_end	5979891
		located_end	6000891		
CH322-117P11	3L	20178692	20199692	located_end	20178692
		estimated_end	20199692		
CH322-117P12	X	16700466	16721466	estimated_end	16700466
		located_end	16721466		
CH322-117P13	X	15605617	15626617	estimated_end	15605617
		located_end	15626617		
CH322-117P14	2L	19741150	19762150	located_end	19741150
		estimated_end	19762150		
CH322-117P15	2R	14578883	14599883	estimated_end	14578883
		located_end	14599883		
CH322-117P16	2R	3011260	3032260	located_end	3011260
		estimated_end	3032260		
CH322-117P17	X	2133425	2154425	estimated_end	2133425
		located_end	2154425		
CH322-117P18	2L	13074636	13095636	located_end	13074636
		estimated_end	13095636		
CH322-117P20	3L	14525831	14546831	estimated_end	14525831
		located_end	14546831		
CH322-117P21	X	1429067	1450067	located_end	1429067
		estimated_end	1450067		
CH322-118A15	2RHet	72774 93774	located_end 72774	estimated_end	93774
CH322-118A22	2L	13027618	13048618	estimated_end	13027618
		located_end	13048618		
CH322-118B22	X	1136150	1157150	located_end	1136150
		estimated_end	1157150		
CH322-118C07	2L	20473501	20494501	estimated_end	20473501
		located_end	20494501		
CH322-118D06	2L	2120630	2141630	estimated_end	2120630
		located_end	2141630		
CH322-118E02	3L	8458327	8479327	located_end	8458327
		estimated_end	8479327		
CH322-118E11	ArmU	3575670	3596670	located_end	3575670
		estimated_end	3596670		
CH322-118E13	X	4274992	4295992	located_end	4274992
		estimated_end	4295992		
CH322-118F06	2R	6616065	6637065	estimated_end	6616065
		located_end	6637065		
CH322-118F18	2R	7140891	7161891	estimated_end	7140891
		located_end	7161891		
CH322-118G08	3R	10505909	10526909	estimated_end	10505909
		located_end	10526909		
CH322-118G19	ArmU	8004801	8025801	located_end	8004801
		estimated_end	8025801		
CH322-118H09	3R	15698723	15719723	located_end	15698723
		estimated_end	15719723		
CH322-118I04	X	16197768	16218768	estimated_end	16197768
		located_end	16218768		
CH322-118I06	ArmU	7960103	7981103	estimated_end	7960103
		located_end	7981103		
CH322-118I07	2RHet	2570504	2591504	estimated_end	2570504
		located_end	2591504		

CH322-118I10	3R	15942789	15963789	located_end	15942789
		estimated_end	15963789		
CH322-118I18	X	6051576	6072576	located_end	6051576
		estimated_end	6072576		
CH322-118I19	4	933443	954443	estimated_end	933443
		located_end	954443		
CH322-118I20	3R	12061896	12082896	located_end	12061896
		estimated_end	12082896		
CH322-118J03	3LHet	2261200	2282200	located_end	2261200
		estimated_end	2282200		
CH322-118J05	3RHet	2150647	2171647	located_end	2150647
		estimated_end	2171647		
CH322-118J14	2L	4164470	4185470	located_end	4164470
		estimated_end	4185470		
CH322-118J19	2L	16763274	16784274	located_end	16763274
		estimated_end	16784274		
CH322-118K17	3L	14693443	14714443	estimated_end	14693443
		located_end	14714443		
CH322-118L14	3L	16991240	17012240	estimated_end	16991240
		located_end	17012240		
CH322-118M02	2RHet	2612271	2633271	estimated_end	2612271
		located_end	2633271		
CH322-118M03	2R	20058060	20079060	estimated_end	20058060
		located_end	20079060		
CH322-118M13	2R	10252763	10273763	located_end	10252763
		estimated_end	10273763		
CH322-118M18	3R	9125207	9146207	located_end	9125207
		estimated_end	9146207		
CH322-118M21	ArmU	9774959	9795959	estimated_end	9774959
		located_end	9795959		
CH322-118N02	ArmU	7545773	7566773	estimated_end	7545773
		located_end	7566773		
CH322-118N07	2RHet	819727	840727	located_end	819727
		estimated_end	840727		
CH322-118N08	X	1607078	1628078	located_end	1607078
		estimated_end	1628078		
CH322-118N18	3R	23473988	23494988	estimated_end	23473988
		located_end	23494988		
CH322-118O02	ArmU	4704006	4725006	located_end	4704006
		estimated_end	4725006		
CH322-118O04	2L	6437971	6458971	estimated_end	6437971
		located_end	6458971		
CH322-118O15	2R	9872929	9893929	estimated_end	9872929
		located_end	9893929		
CH322-118O17	2L	6857302	6878302	located_end	6857302
		estimated_end	6878302		
CH322-118O24	3L	11612875	11633875	estimated_end	11612875
		located_end	11633875		
CH322-118P23	3R	9733517	9754517	located_end	9733517
		estimated_end	9754517		
CH322-119A23	3R	22996198	23017198	estimated_end	22996198
		located_end	23017198		
CH322-119B08	ArmU	2745025	2766025	located_end	2745025
		estimated_end	2766025		

CH322-119B10	ArmU	3555067	3576067	located_end	3555067
		estimated_end	3576067		
CH322-119B12	3L	16421614	16442614	located_end	16421614
		estimated_end	16442614		
CH322-119B17	3R	24006099	24027099	estimated_end	24006099
		located_end	24027099		
CH322-119B18	3L	7696876	7717876	located_end	7696876
		estimated_end	7717876		
CH322-119C07	2R	8245633	8266633	located_end	8245633
		estimated_end	8266633		
CH322-119D17	ArmU	9603654	9624654	estimated_end	9603654
		located_end	9624654		
CH322-119E03	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-119E22	3L	1042834	1063834	estimated_end	1042834
		located_end	1063834		
CH322-119F14	ArmU	9816206	9837206	located_end	9816206
		estimated_end	9837206		
CH322-119F15	ArmU	7501668	7522668	estimated_end	7501668
		located_end	7522668		
CH322-119G01	3LHet	2525621	2546621	estimated_end	2525621
		located_end	2546621		
CH322-119H02	ArmU	9976843	9997843	estimated_end	9976843
		located_end	9997843		
CH322-119H10	2R	20751368	20772368	located_end	20751368
		estimated_end	20772368		
CH322-119H11	3L	2657412	2678412	estimated_end	2657412
		located_end	2678412		
CH322-119H19	3R	15249619	15270619	located_end	15249619
		estimated_end	15270619		
CH322-119I10	2RHet	2344264	2365264	located_end	2344264
		estimated_end	2365264		
CH322-119I13	3R	21539279	21560279	located_end	21539279
		estimated_end	21560279		
CH322-119I22	3R	20188631	20209631	estimated_end	20188631
		located_end	20209631		
CH322-119J13	X	16699369	16720369	estimated_end	16699369
		located_end	16720369		
CH322-119K01	X	15617932	15638932	located_end	15617932
		estimated_end	15638932		
CH322-119K11	3L	184137	205137	estimated_end	184137
		located_end	205137		
CH322-119K18	3R	24566554	24587554	located_end	24566554
		estimated_end	24587554		
CH322-119L22	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-119L24	2L	9003555	9024555	estimated_end	9003555
		located_end	9024555		
CH322-119N04	2L	5187607	5208607	located_end	5187607
		estimated_end	5208607		
CH322-119O09	3L	18041395	18062395	estimated_end	18041395
		located_end	18062395		
CH322-119O23	X	7769934	7790934	located_end	7769934
		estimated_end	7790934		

CH322-119P10	2L	18498165	18519165	located_end	18498165
		estimated_end	18519165		
CH322-11A02	3R	14474904	14495904	located_end	14474904
		estimated_end	14495904		
CH322-11A04	2L	22639709	22660709	located_end	22639709
		estimated_end	22660709		
CH322-11A06	X	11528010	11549010	estimated_end	11528010
		located_end	11549010		
CH322-11A15	3R	1990646	2011646	estimated_end	1990646
		located_end	2011646		
CH322-11A16	2L	441279	462279	estimated_end	441279
		located_end	462279		
CH322-11A24	3L	21351733	21372733	estimated_end	21351733
		located_end	21372733		
CH322-11B01	2R	5164388	5185388	estimated_end	5164388
		located_end	5185388		
CH322-11B05	X	20133754	20154754	located_end	20133754
		estimated_end	20154754		
CH322-11B09	2R	275263	296263	estimated_end	275263
		located_end	296263		
CH322-11B11	3R	11998104	12019104	located_end	11998104
		estimated_end	12019104		
CH322-11B18	2R	15155577	15176577	located_end	15155577
		estimated_end	15176577		
CH322-11C03	2L	22913586	22934586	located_end	22913586
		estimated_end	22934586		
CH322-11C13	2L	7756610	7777610	located_end	7756610
		estimated_end	7777610		
CH322-11C14	X	16916857	16937857	located_end	16916857
		estimated_end	16937857		
CH322-11C20	3R	19688022	19709022	located_end	19688022
		estimated_end	19709022		
CH322-11C24	2L	7780854	7801854	located_end	7780854
		estimated_end	7801854		
CH322-11D03	3L	11301149	11322149	located_end	11301149
		estimated_end	11322149		
CH322-11D07	X	11833025	11854025	located_end	11833025
		estimated_end	11854025		
CH322-11D11	3R	2271501	2292501	estimated_end	2271501
		located_end	2292501		
CH322-11D17	2RHet	2904131	2925131	located_end	2904131
		estimated_end	2925131		
CH322-11D18	X	21566942	21587942	estimated_end	21566942
		located_end	21587942		
CH322-11D22	X	5390773	5411773	estimated_end	5390773
		located_end	5411773		
CH322-11E02	2R	8593775	8614775	estimated_end	8593775
		located_end	8614775		
CH322-11E05	3L	12471856	12492856	located_end	12471856
		estimated_end	12492856		
CH322-11E13	X	22315570	22336570	estimated_end	22315570
		located_end	22336570		
CH322-11E17	3R	27536554	27557554	located_end	27536554
		estimated_end	27557554		

CH322-11E20 3R	2391091	2412091	estimated_end	2391091
	located_end	2412091		
CH322-11E24 3L	7556010	7577010	located_end	7556010
	estimated_end	7577010		
CH322-11F01 2R	10651474	10672474	located_end	10651474
	estimated_end	10672474		
CH322-11F04 2L	10046551	10067551	located_end	10046551
	estimated_end	10067551		
CH322-11F07 3R	11994073	12015073	estimated_end	11994073
	located_end	12015073		
CH322-11F09 2L	6614785	6635785	located_end	6614785
	estimated_end	6635785		
CH322-11F12 3L	9171843	9192843	located_end	9171843
	estimated_end	9192843		
CH322-11F17 3R	20463773	20484773	located_end	20463773
	estimated_end	20484773		
CH322-11F19 3R	7835058	7856058	located_end	7835058
	estimated_end	7856058		
CH322-11F21 2R	19899972	19920972	estimated_end	19899972
	located_end	19920972		
CH322-11G01 X	2543002	2564002	estimated_end	2543002
	located_end	2564002		
CH322-11G03 2L	22503654	22524654	estimated_end	22503654
	located_end	22524654		
CH322-11G06 3R	13060733	13081733	estimated_end	13060733
	located_end	13081733		
CH322-11G15 2L	119391	140391	estimated_end	119391
	located_end	140391		
CH322-11G17 X	9131783	9152783	estimated_end	9131783
	located_end	9152783		
CH322-11G18 2R	2763785	2784785	estimated_end	2763785
	located_end	2784785		
CH322-11G19 2L	8933292	8954292	estimated_end	8933292
	located_end	8954292		
CH322-11G22 2L	2703368	2724368	estimated_end	2703368
	located_end	2724368		
CH322-11H06 3LHet	1217327	1238327	estimated_end	1217327
	located_end	1238327		
CH322-11H09 2L	1914950	1935950	located_end	1914950
	estimated_end	1935950		
CH322-11H15 3L	22785322	22806322	located_end	22785322
	estimated_end	22806322		
CH322-11H17 3L	23286698	23307698	estimated_end	23286698
	located_end	23307698		
CH322-11H19 X	2911253	2932253	located_end	2911253
	estimated_end	2932253		
CH322-11H21 3R	9346342	9367342	estimated_end	9346342
	located_end	9367342		
CH322-11H22 3LHet	1963865	1984865	estimated_end	1963865
	located_end	1984865		
CH322-11H24 2R	20936876	20957876	estimated_end	20936876
	located_end	20957876		
CH322-11I01 2L	1014012	1035012	located_end	1014012
	estimated_end	1035012		

CH322-11I02 2L	13639812	13660812	located_end	13639812
	estimated_end	13660812		
CH322-11I04 2L	2468523	2489523	located_end	2468523
	estimated_end	2489523		
CH322-11I05 2L	2071769	2092769	located_end	2071769
	estimated_end	2092769		
CH322-11I06 3RHet	1223051	1244051	located_end	1223051
	estimated_end	1244051		
CH322-11I18 3L	479122	500122	located_end	479122
	estimated_end	500122		
CH322-11I20 X	16118749	16139749	estimated_end	16118749
	located_end	16139749		
CH322-11I22 2L	85681	106681	located_end	85681
	estimated_end	106681		
CH322-11J01 2R	9072924	9093924	estimated_end	9072924
	located_end	9093924		
CH322-11J10 2R	480060	501060	estimated_end	480060
	located_end	501060		
CH322-11J13 3L	9408631	9429631	estimated_end	9408631
	located_end	9429631		
CH322-11J16 2L	5320857	5341857	located_end	5320857
	estimated_end	5341857		
CH322-11J19 X	12534838	12555838	estimated_end	12534838
	located_end	12555838		
CH322-11J20 X	11231002	11252002	located_end	11231002
	estimated_end	11252002		
CH322-11J22 3L	20776240	20797240	located_end	20776240
	estimated_end	20797240		
CH322-11K02 3R	27799125	27820125	estimated_end	27799125
	located_end	27820125		
CH322-11K03 2L	12639486	12660486	located_end	12639486
	estimated_end	12660486		
CH322-11K05 ArmU	6089134	6110134	estimated_end	6089134
	located_end	6110134		
CH322-11K15 2L	12979064	13000064	estimated_end	12979064
	located_end	13000064		
CH322-11K18 2R	8258996	8279996	estimated_end	8258996
	located_end	8279996		
CH322-11K19 2R	8870252	8891252	located_end	8870252
	estimated_end	8891252		
CH322-11K20 3L	21025348	21046348	estimated_end	21025348
	located_end	21046348		
CH322-11K21 2R	17254501	17275501	located_end	17254501
	estimated_end	17275501		
CH322-11K23 3R	5935409	5956409	estimated_end	5935409
	located_end	5956409		
CH322-11L03 ArmU	5938975	5959975	estimated_end	5938975
	located_end	5959975		
CH322-11L11 3LHet	2118404	2139404	located_end	2118404
	estimated_end	2139404		
CH322-11L16 2L	12440241	12461241	located_end	12440241
	estimated_end	12461241		
CH322-11L17 3L	9341840	9362840	estimated_end	9341840
	located_end	9362840		

CH322-11L19 3R	12914227	12935227	estimated_end	12914227
	located_end	12935227		
CH322-11L22 3R	8254249	8275249	located_end	8254249
	estimated_end	8275249		
CH322-11M02 2RHet	33244	54244	estimated_end	33244
	located_end	54244		
CH322-11M13 X	575928	596928	estimated_end	575928
	located_end	596928		
CH322-11M21 3R	23090368	23111368	located_end	23090368
	estimated_end	23111368		
CH322-11M24 2R	18872049	18893049	estimated_end	18872049
	located_end	18893049		
CH322-11N17 3RHet	635295	656295	located_end	635295
	estimated_end	656295		
CH322-11N18 X	15574170	15595170	located_end	15574170
	estimated_end	15595170		
CH322-11N21 ArmU	1693448	1714448	located_end	1693448
	estimated_end	1714448		
CH322-11N24 2R	8338753	8359753	located_end	8338753
	estimated_end	8359753		
CH322-11O06 3R	8264495	8285495	estimated_end	8264495
	located_end	8285495		
CH322-11O12 2R	1670306	1691306	located_end	1670306
	estimated_end	1691306		
CH322-11O18 3L	9841326	9862326	located_end	9841326
	estimated_end	9862326		
CH322-11O19 3L	14764955	14785955	located_end	14764955
	estimated_end	14785955		
CH322-11O20 2R	17845443	17866443	estimated_end	17845443
	located_end	17866443		
CH322-11O22 3L	9574253	9595253	estimated_end	9574253
	located_end	9595253		
CH322-11O23 3L	2100229	2121229	estimated_end	2100229
	located_end	2121229		
CH322-11P02 3L	1410033	1431033	located_end	1410033
	estimated_end	1431033		
CH322-11P06 ArmU	4391302	4412302	estimated_end	4391302
	located_end	4412302		
CH322-11P09 3R	16366465	16387465	estimated_end	16366465
	located_end	16387465		
CH322-11P13 3L	7331057	7352057	located_end	7331057
	estimated_end	7352057		
CH322-11P19 2R	14096959	14117959	estimated_end	14096959
	located_end	14117959		
CH322-11P20 2R	4508998	4529998	estimated_end	4508998
	located_end	4529998		
CH322-11P21 X	8954764	8975764	estimated_end	8954764
	located_end	8975764		
CH322-11P22 3L	11745484	11766484	located_end	11745484
	estimated_end	11766484		
CH322-120A02	3L	21673771	21694771	estimated_end
	located_end	21694771		21673771
CH322-120B10	3L	19971756	19992756	located_end
	estimated_end	19992756		19971756

CH322-120B12	2L	5008727	5029727	estimated_end	5008727
		located_end	5029727		
CH322-120B14	2R	482236	503236	located_end	482236
		estimated_end	503236		
CH322-120B15	3L	10059582	10080582	estimated_end	10059582
		located_end	10080582		
CH322-120C04	ArmU	6657559	6678559	estimated_end	6657559
		located_end	6678559		
CH322-120C07	3R	20740928	20761928	estimated_end	20740928
		located_end	20761928		
CH322-120C12	3R	2504705	2525705	located_end	2504705
		estimated_end	2525705		
CH322-120D06	2L	9488869	9509869	located_end	9488869
		estimated_end	9509869		
CH322-120D11	3L	14592481	14613481	estimated_end	14592481
		located_end	14613481		
CH322-120D12	3L	18138416	18159416	located_end	18138416
		estimated_end	18159416		
CH322-120D14	3L	14981224	15002224	located_end	14981224
		estimated_end	15002224		
CH322-120D16	X	16806822	16827822	located_end	16806822
		estimated_end	16827822		
CH322-120D17	2R	17220425	17241425	located_end	17220425
		estimated_end	17241425		
CH322-120E02	3R	4190726	4211726	located_end	4190726
		estimated_end	4211726		
CH322-120E05	ArmU	8679625	8700625	located_end	8679625
		estimated_end	8700625		
CH322-120E06	3L	6996913	7017913	estimated_end	6996913
		located_end	7017913		
CH322-120E10	XHet	166537	187537	located_end	166537
		estimated_end	187537		
CH322-120E16	2L	4174070	4195070	estimated_end	4174070
		located_end	4195070		
CH322-120F01	2R	21045401	21066401	estimated_end	21045401
		located_end	21066401		
CH322-120F10	2L	9163323	9184323	estimated_end	9163323
		located_end	9184323		
CH322-120F13	3R	5276027	5297027	estimated_end	5276027
		located_end	5297027		
CH322-120F18	X	12221619	12242619	located_end	12221619
		estimated_end	12242619		
CH322-120F20	ArmU	7699873	7720873	located_end	7699873
		estimated_end	7720873		
CH322-120F23	3L	8484252	8505252	estimated_end	8484252
		located_end	8505252		
CH322-120G01	3R	18124345	18145345	estimated_end	18124345
		located_end	18145345		
CH322-120G07	2L	6041200	6062200	estimated_end	6041200
		located_end	6062200		
CH322-120G08	3R	20936945	20957945	located_end	20936945
		estimated_end	20957945		
CH322-120G09	3L	16002528	16023528	estimated_end	16002528
		located_end	16023528		

CH322-120H07	3L	3691681	3712681	estimated_end	3691681
		located_end	3712681		
CH322-120H10	2R	16438269	16459269	located_end	16438269
		estimated_end	16459269		
CH322-120H16	2L	12109481	12130481	estimated_end	12109481
		located_end	12130481		
CH322-120H18	X	9090461	9111461	located_end	9090461
		estimated_end	9111461		
CH322-120I05	2R	2328074	2349074	located_end	2328074
		estimated_end	2349074		
CH322-120I09	3L	20780444	20801444	located_end	20780444
		estimated_end	20801444		
CH322-120I17	X	4579777	4600777	located_end	4579777
		estimated_end	4600777		
CH322-120J06	2R	20615447	20636447	estimated_end	20615447
		located_end	20636447		
CH322-120J10	3R	26849902	26870902	located_end	26849902
		estimated_end	26870902		
CH322-120J16	2L	2555192	2576192	estimated_end	2555192
		located_end	2576192		
CH322-120K12	2R	3598665	3619665	located_end	3598665
		estimated_end	3619665		
CH322-120K14	3R	23471117	23492117	estimated_end	23471117
		located_end	23492117		
CH322-120K16	ArmU	2325668	2346668	located_end	2325668
		estimated_end	2346668		
CH322-120K17	3R	2257222	2278222	located_end	2257222
		estimated_end	2278222		
CH322-120K18	3R	3566915	3587915	estimated_end	3566915
		located_end	3587915		
CH322-120L03	3L	11242324	11263324	located_end	11242324
		estimated_end	11263324		
CH322-120L06	3R	12378287	12399287	estimated_end	12378287
		located_end	12399287		
CH322-120L09	3L	17033020	17054020	located_end	17033020
		estimated_end	17054020		
CH322-120L12	3R	4251324	4272324	estimated_end	4251324
		located_end	4272324		
CH322-120L14	2L	5159307	5180307	located_end	5159307
		estimated_end	5180307		
CH322-120L16	3L	10933160	10954160	located_end	10933160
		estimated_end	10954160		
CH322-120L17	X	22074748	22095748	located_end	22074748
		estimated_end	22095748		
CH322-120L19	2L	2749408	2770408	estimated_end	2749408
		located_end	2770408		
CH322-120M02	3LHet	1421885	1442885	estimated_end	1421885
		located_end	1442885		
CH322-120M08	2L	16670959	16691959	estimated_end	16670959
		located_end	16691959		
CH322-120M09	2R	10258378	10279378	estimated_end	10258378
		located_end	10279378		
CH322-120M13	2RHet	2810337	2831337	estimated_end	2810337
		located_end	2831337		

CH322-120M23	ArmU	9132692	9153692	estimated_end	9132692
		located_end	9153692		
CH322-120N04	2L	10340723	10361723	located_end	10340723
		estimated_end	10361723		
CH322-120N08	2RHet	1299562	1320562	located_end	1299562
		estimated_end	1320562		
CH322-120N10	3RHet	2272739	2293739	estimated_end	2272739
		located_end	2293739		
CH322-120N14	ArmU	874251	895251	located_end	874251
		estimated_end	895251		
CH322-120N15	2R	13863429	13884429	located_end	13863429
		estimated_end	13884429		
CH322-120N24	3L	11963832	11984832	estimated_end	11963832
		located_end	11984832		
CH322-120O11	X	13055216	13076216	located_end	13055216
		estimated_end	13076216		
CH322-120P15	2L	5987152	6008152	estimated_end	5987152
		located_end	6008152		
CH322-120P20	3L	3839026	3860026	located_end	3839026
		estimated_end	3860026		
CH322-121A05	X	10148505	10169505	located_end	10148505
		estimated_end	10169505		
CH322-121A11	2L	14235790	14256790	estimated_end	14235790
		located_end	14256790		
CH322-121B03	2R	1445191	1466191	estimated_end	1445191
		located_end	1466191		
CH322-121B04	2R	15650052	15671052	estimated_end	15650052
		located_end	15671052		
CH322-121B17	ArmU	5767836	5788836	located_end	5767836
		estimated_end	5788836		
CH322-121B19	ArmU	2698781	2719781	located_end	2698781
		estimated_end	2719781		
CH322-121B20	X	1249172	1270172	estimated_end	1249172
		located_end	1270172		
CH322-121C07	X	12281179	12302179	located_end	12281179
		estimated_end	12302179		
CH322-121C11	3R	22336899	22357899	estimated_end	22336899
		located_end	22357899		
CH322-121C18	3L	1054886	1075886	estimated_end	1054886
		located_end	1075886		
CH322-121D20	2L	9706038	9727038	located_end	9706038
		estimated_end	9727038		
CH322-121D22	3L	7631486	7652486	located_end	7631486
		estimated_end	7652486		
CH322-121E10	3L	6524151	6545151	estimated_end	6524151
		located_end	6545151		
CH322-121E22	3R	4010084	4031084	located_end	4010084
		estimated_end	4031084		
CH322-121F21	ArmU	5677689	5698689	estimated_end	5677689
		located_end	5698689		
CH322-121G09	3L	12884290	12905290	estimated_end	12884290
		located_end	12905290		
CH322-121G16	3R	8908871	8929871	estimated_end	8908871
		located_end	8929871		

CH322-121G22	3L	6033285	6054285	located_end	6033285
		estimated_end	6054285		
CH322-121H10	ArmU	5515474	5536474	located_end	5515474
		estimated_end	5536474		
CH322-121H16	3L	7985180	8006180	located_end	7985180
		estimated_end	8006180		
CH322-121H21	3R	707547	728547	located_end	707547
		estimated_end	728547		
CH322-121I21	3R	26721185	26742185	located_end	26721185
		estimated_end	26742185		
CH322-121I23	3L	16871581	16892581	located_end	16871581
		estimated_end	16892581		
CH322-121J13	4	286160	307160	estimated_end	286160
		located_end	307160		
CH322-121J18	2R	7062264	7083264	estimated_end	7062264
		located_end	7083264		
CH322-121J22	ArmU	345029	366029	estimated_end	345029
		located_end	366029		
CH322-121K03	2R	8129172	8150172	located_end	8129172
		estimated_end	8150172		
CH322-121K09	2R	19895363	19916363	located_end	19895363
		estimated_end	19916363		
CH322-121K19	3R	23717911	23738911	estimated_end	23717911
		located_end	23738911		
CH322-121K20	2R	14793760	14814760	located_end	14793760
		estimated_end	14814760		
CH322-121L13	3R	19930025	19951025	located_end	19930025
		estimated_end	19951025		
CH322-121L18	3R	10817864	10838864	estimated_end	10817864
		located_end	10838864		
CH322-121M12	2R	17613010	17634010	located_end	17613010
		estimated_end	17634010		
CH322-121M13	3R	10107993	10128993	located_end	10107993
		estimated_end	10128993		
CH322-121M16	2L	17534882	17555882	located_end	17534882
		estimated_end	17555882		
CH322-121M17	3R	19666852	19687852	estimated_end	19666852
		located_end	19687852		
CH322-121N12	ArmU	7287556	7308556	located_end	7287556
		estimated_end	7308556		
CH322-121N14	ArmU	9774959	9795959	estimated_end	9774959
		located_end	9795959		
CH322-121N16	3L	2714368	2735368	located_end	2714368
		estimated_end	2735368		
CH322-121N23	3R	17352665	17373665	located_end	17352665
		estimated_end	17373665		
CH322-121O12	3R	27448317	27469317	estimated_end	27448317
		located_end	27469317		
CH322-121O14	ArmU	5079633	5100633	estimated_end	5079633
		located_end	5100633		
CH322-121O16	3R	23314320	23335320	located_end	23314320
		estimated_end	23335320		
CH322-121O21	3L	15307398	15328398	estimated_end	15307398
		located_end	15328398		

CH322-122B10	ArmU	7444974	7465974	located_end	7444974
		estimated_end	7465974		
CH322-122B21	2R	8925094	8946094	estimated_end	8925094
		located_end	8946094		
CH322-122C07	3L	1336012	1357012	located_end	1336012
		estimated_end	1357012		
CH322-122C24	3R	6143519	6164519	located_end	6143519
		estimated_end	6164519		
CH322-122D13	2R	18669274	18690274	located_end	18669274
		estimated_end	18690274		
CH322-122D19	3R	20566415	20587415	estimated_end	20566415
		located_end	20587415		
CH322-122E03	2L	14858357	14879357	located_end	14858357
		estimated_end	14879357		
CH322-122E06	X	4918311	4939311	estimated_end	4918311
		located_end	4939311		
CH322-122E09	X	8698625	8719625	located_end	8698625
		estimated_end	8719625		
CH322-122E11	2L	19409157	19430157	estimated_end	19409157
		located_end	19430157		
CH322-122E16	2L	20555077	20576077	located_end	20555077
		estimated_end	20576077		
CH322-122F02	3L	20171692	20192692	estimated_end	20171692
		located_end	20192692		
CH322-122F05	3L	22594111	22615111	located_end	22594111
		estimated_end	22615111		
CH322-122F06	2R	10552923	10573923	estimated_end	10552923
		located_end	10573923		
CH322-122F14	X	18696468	18717468	located_end	18696468
		estimated_end	18717468		
CH322-122F18	ArmU	8919023	8940023	located_end	8919023
		estimated_end	8940023		
CH322-122G07	3R	8217286	8238286	estimated_end	8217286
		located_end	8238286		
CH322-122G08	3R	11541392	11562392	located_end	11541392
		estimated_end	11562392		
CH322-122G10	2R	20874907	20895907	estimated_end	20874907
		located_end	20895907		
CH322-122G11	3L	13461003	13482003	located_end	13461003
		estimated_end	13482003		
CH322-122G16	2R	7300709	7321709	located_end	7300709
		estimated_end	7321709		
CH322-122G18	2L	8895702	8916702	estimated_end	8895702
		located_end	8916702		
CH322-122H07	2L	12821333	12842333	located_end	12821333
		estimated_end	12842333		
CH322-122H08	3RHet	818879	839879	estimated_end	818879
		located_end	839879		
CH322-122H11	3L	11482286	11503286	estimated_end	11482286
		located_end	11503286		
CH322-122H13	2R	16274076	16295076	located_end	16274076
		estimated_end	16295076		
CH322-122H14	2L	18561442	18582442	located_end	18561442
		estimated_end	18582442		

CH322-122H16	X	17052895	17073895	located_end	17052895
		estimated_end	17073895		
CH322-122I04	3L	13931896	13952896	estimated_end	13931896
		located_end	13952896		
CH322-122I05	X	4368815	4389815	located_end	4368815
		estimated_end	4389815		
CH322-122I07	2L	7159364	7180364	estimated_end	7159364
		located_end	7180364		
CH322-122I08	2L	4661487	4682487	located_end	4661487
		estimated_end	4682487		
CH322-122I10	3R	20785338	20806338	estimated_end	20785338
		located_end	20806338		
CH322-122I11	2L	6820304	6841304	located_end	6820304
		estimated_end	6841304		
CH322-122I12	3L	20805082	20826082	estimated_end	20805082
		located_end	20826082		
CH322-122I15	3R	19725213	19746213	located_end	19725213
		estimated_end	19746213		
CH322-122I16	3L	16545465	16566465	located_end	16545465
		estimated_end	16566465		
CH322-122I18	3L	12942101	12963101	located_end	12942101
		estimated_end	12963101		
CH322-122I19	2L	10167106	10188106	located_end	10167106
		estimated_end	10188106		
CH322-122I20	2R	12132129	12153129	located_end	12132129
		estimated_end	12153129		
CH322-122I22	2L	16621299	16642299	located_end	16621299
		estimated_end	16642299		
CH322-122J12	3R	19958847	19979847	estimated_end	19958847
		located_end	19979847		
CH322-122J15	2L	14741832	14762832	estimated_end	14741832
		located_end	14762832		
CH322-122K06	2L	2930590	2951590	located_end	2930590
		estimated_end	2951590		
CH322-122K09	3R	6849240	6870240	located_end	6849240
		estimated_end	6870240		
CH322-122K12	3R	14178597	14199597	estimated_end	14178597
		located_end	14199597		
CH322-122K13	2R	15280543	15301543	estimated_end	15280543
		located_end	15301543		
CH322-122K17	2R	9353334	9374334	located_end	9353334
		estimated_end	9374334		
CH322-122K19	3R	26966392	26987392	located_end	26966392
		estimated_end	26987392		
CH322-122K20	3L	9909080	9930080	located_end	9909080
		estimated_end	9930080		
CH322-122L05	3L	17407582	17428582	located_end	17407582
		estimated_end	17428582		
CH322-122L14	2R	19349654	19370654	estimated_end	19349654
		located_end	19370654		
CH322-122L19	3L	2567683	2588683	estimated_end	2567683
		located_end	2588683		
CH322-122M10	X	16212030	16233030	estimated_end	16212030
		located_end	16233030		

CH322-122M11	3R	2009629	2030629	estimated_end	2009629
		located_end	2030629		
CH322-122M18	2R	2165879	2186879	estimated_end	2165879
		located_end	2186879		
CH322-122N07	ArmU	602766	623766	estimated_end	602766
		located_end	623766		
CH322-122N09	4	1235570	1256570	estimated_end	1235570
		located_end	1256570		
CH322-122N12	3L	18695657	18716657	estimated_end	18695657
		located_end	18716657		
CH322-122N14	2R	10408216	10429216	estimated_end	10408216
		located_end	10429216		
CH322-122N18	2L	8578707	8599707	located_end	8578707
		estimated_end	8599707		
CH322-122N19	2L	5437950	5458950	located_end	5437950
		estimated_end	5458950		
CH322-122O01	3R	16479862	16500862	located_end	16479862
		estimated_end	16500862		
CH322-122O02	2L	2043792	2064792	located_end	2043792
		estimated_end	2064792		
CH322-122O09	3R	15320151	15341151	located_end	15320151
		estimated_end	15341151		
CH322-122O10	X	14443147	14464147	estimated_end	14443147
		located_end	14464147		
CH322-122O21	ArmU	8074364	8095364	estimated_end	8074364
		located_end	8095364		
CH322-122O23	3R	455183	476183	estimated_end	455183
		located_end	476183		
CH322-122O24	3R	27087327	27108327	located_end	27087327
		estimated_end	27108327		
CH322-122P06	2L	22244670	22265670	located_end	22244670
		estimated_end	22265670		
CH322-122P08	3L	18719223	18740223	located_end	18719223
		estimated_end	18740223		
CH322-122P19	X	3440406	3461406	estimated_end	3440406
		located_end	3461406		
CH322-122P23	2R	16300666	16321666	estimated_end	16300666
		located_end	16321666		
CH322-123B01	2L	2160550	2181550	estimated_end	2160550
		located_end	2181550		
CH322-123B02	2R	7965434	7986434	located_end	7965434
		estimated_end	7986434		
CH322-123B03	X	14685783	14706783	estimated_end	14685783
		located_end	14706783		
CH322-123B07	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-123B12	3R	23029920	23050920	located_end	23029920
		estimated_end	23050920		
CH322-123B22	4	1092091	1113091	located_end	1092091
		estimated_end	1113091		
CH322-123B23	X	18040275	18061275	located_end	18040275
		estimated_end	18061275		
CH322-123C10	X	10539324	10560324	located_end	10539324
		estimated_end	10560324		

CH322-123C12	3R	18768585	18789585	located_end	18768585
		estimated_end	18789585		
CH322-123C14	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-123C15	3L	18768435	18789435	estimated_end	18768435
		located_end	18789435		
CH322-123C21	3L	21223760	21244760	located_end	21223760
		estimated_end	21244760		
CH322-123C22	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-123C23	3L	4232214	4253214	estimated_end	4232214
		located_end	4253214		
CH322-123D06	X	1292728	1313728	estimated_end	1292728
		located_end	1313728		
CH322-123D18	ArmU	8336763	8357763	located_end	8336763
		estimated_end	8357763		
CH322-123E06	X	8627474	8648474	estimated_end	8627474
		located_end	8648474		
CH322-123E07	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-123F01	3L	3289077	3310077	located_end	3289077
		estimated_end	3310077		
CH322-123F02	2L	3292773	3313773	located_end	3292773
		estimated_end	3313773		
CH322-123F05	ArmU	9774196	9795196	located_end	9774196
		estimated_end	9795196		
CH322-123F08	3R	9885210	9906210	located_end	9885210
		estimated_end	9906210		
CH322-123G12	ArmU	1255306	1276306	located_end	1255306
		estimated_end	1276306		
CH322-123G15	3L	5453256	5474256	estimated_end	5453256
		located_end	5474256		
CH322-123G16	3R	12358937	12379937	estimated_end	12358937
		located_end	12379937		
CH322-123H07	2L	11149269	11170269	located_end	11149269
		estimated_end	11170269		
CH322-123H08	3L	5669419	5690419	estimated_end	5669419
		located_end	5690419		
CH322-123I01	ArmU	9906349	9927349	located_end	9906349
		estimated_end	9927349		
CH322-123I06	ArmU	2628742	2649742	estimated_end	2628742
		located_end	2649742		
CH322-123I08	3R	22206801	22227801	estimated_end	22206801
		located_end	22227801		
CH322-123I10	3L	15524486	15545486	located_end	15524486
		estimated_end	15545486		
CH322-123I17	3RHet	193437	214437	located_end	193437
		estimated_end	214437		
CH322-123J02	3L	24439506	24460506	located_end	24439506
		estimated_end	24460506		
CH322-123J10	2L	9678991	9699991	located_end	9678991
		estimated_end	9699991		
CH322-123J16	ArmU	1614939	1635939	estimated_end	1614939
		located_end	1635939		

CH322-123K12	X	8541220	8562220	estimated_end	8541220
		located_end	8562220		
CH322-123K13	3R	25655831	25676831	located_end	25655831
		estimated_end	25676831		
CH322-123L02	2R	14481671	14502671	estimated_end	14481671
		located_end	14502671		
CH322-123L10	X	20345578	20366578	located_end	20345578
		estimated_end	20366578		
CH322-123L12	2R	1646749	1667749	estimated_end	1646749
		located_end	1667749		
CH322-123L13	2L	15592102	15613102	estimated_end	15592102
		located_end	15613102		
CH322-123L23	2R	10933617	10954617	estimated_end	10933617
		located_end	10954617		
CH322-123N03	3R	10476447	10497447	estimated_end	10476447
		located_end	10497447		
CH322-123N04	2R	22426 43426	estimated_end	22426	located_end
		43426			
CH322-123N19	2R	14141868	14162868	estimated_end	14141868
		located_end	14162868		
CH322-123O02	3L	23325419	23346419	located_end	23325419
		estimated_end	23346419		
CH322-123O06	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-123O21	X	12566614	12587614	estimated_end	12566614
		located_end	12587614		
CH322-123O24	ArmU	8438613	8459613	located_end	8438613
		estimated_end	8459613		
CH322-123P13	2L	16049762	16070762	estimated_end	16049762
		located_end	16070762		
CH322-123P22	ArmU	9475718	9496718	located_end	9475718
		estimated_end	9496718		
CH322-124A20	2R	17769423	17790423	located_end	17769423
		estimated_end	17790423		
CH322-124B08	ArmU	8135735	8156735	located_end	8135735
		estimated_end	8156735		
CH322-124B22	ArmU	7179436	7200436	estimated_end	7179436
		located_end	7200436		
CH322-124B23	X	10481102	10502102	located_end	10481102
		estimated_end	10502102		
CH322-124C07	X	11108839	11129839	located_end	11108839
		estimated_end	11129839		
CH322-124C12	ArmU	8761166	8782166	located_end	8761166
		estimated_end	8782166		
CH322-124C17	ArmU	6678211	6699211	located_end	6678211
		estimated_end	6699211		
CH322-124C18	2L	20361813	20382813	located_end	20361813
		estimated_end	20382813		
CH322-124D01	ArmU	950849	971849	estimated_end	950849
		located_end	971849		
CH322-124D04	2R	18774518	18795518	located_end	18774518
		estimated_end	18795518		
CH322-124D08	2RHet	85250 106250	estimated_end	85250	
		located_end	106250		

CH322-124D09	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-124D17	3L	17078170	17099170	estimated_end	17078170
		located_end	17099170		
CH322-124E02	2L	17813189	17834189	located_end	17813189
		estimated_end	17834189		
CH322-124E06	3R	8756751	8777751	estimated_end	8756751
		located_end	8777751		
CH322-124E11	3R	23502742	23523742	estimated_end	23502742
		located_end	23523742		
CH322-124E14	2L	21005596	21026596	estimated_end	21005596
		located_end	21026596		
CH322-124F05	3R	26042144	26063144	estimated_end	26042144
		located_end	26063144		
CH322-124G04	2R	4219052	4240052	estimated_end	4219052
		located_end	4240052		
CH322-124G07	3R	21786106	21807106	located_end	21786106
		estimated_end	21807106		
CH322-124G09	ArmU	5944438	5965438	located_end	5944438
		estimated_end	5965438		
CH322-124G11	3L	17155686	17176686	estimated_end	17155686
		located_end	17176686		
CH322-124G12	X	8105914	8126914	estimated_end	8105914
		located_end	8126914		
CH322-124G16	ArmU	3395790	3416790	located_end	3395790
		estimated_end	3416790		
CH322-124G17	2R	3574260	3595260	located_end	3574260
		estimated_end	3595260		
CH322-124H01	3R	13574867	13595867	estimated_end	13574867
		located_end	13595867		
CH322-124H04	3R	2827746	2848746	estimated_end	2827746
		located_end	2848746		
CH322-124H05	2L	20589406	20610406	estimated_end	20589406
		located_end	20610406		
CH322-124H08	3L	21714393	21735393	estimated_end	21714393
		located_end	21735393		
CH322-124H10	3L	8163621	8184621	estimated_end	8163621
		located_end	8184621		
CH322-124H11	2LHet	192162	213162	located_end	192162
		estimated_end	213162		
CH322-124I04	3R	27832901	27853901	located_end	27832901
		estimated_end	27853901		
CH322-124J05	2R	3299923	3320923	located_end	3299923
		estimated_end	3320923		
CH322-124J12	3L	2448717	2469717	estimated_end	2448717
		located_end	2469717		
CH322-124J16	2R	5605351	5626351	estimated_end	5605351
		located_end	5626351		
CH322-124K08	3R	22866180	22887180	located_end	22866180
		estimated_end	22887180		
CH322-124K12	3R	16712139	16733139	located_end	16712139
		estimated_end	16733139		
CH322-124K14	3L	18525835	18546835	estimated_end	18525835
		located_end	18546835		

CH322-124K17	2R	15925650	15946650	estimated_end	15925650
		located_end	15946650		
CH322-124K18	3R	9982198	10003198	estimated_end	9982198
		located_end	10003198		
CH322-124L01	ArmU	949756	970756	estimated_end	949756
		located_end	970756		
CH322-124L08	2RHet	6332	27332	estimated_end	6332
		located_end	27332		
CH322-124L13	2L	1978466	1999466	located_end	1978466
		estimated_end	1999466		
CH322-124L14	2R	8756750	8777750	estimated_end	8756750
		located_end	8777750		
CH322-124L18	X	11477776	11498776	estimated_end	11477776
		located_end	11498776		
CH322-124L20	3L	7490735	7511735	located_end	7490735
		estimated_end	7511735		
CH322-124L23	ArmU	8476896	8497896	located_end	8476896
		estimated_end	8497896		
CH322-124M02	2L	2377457	2398457	located_end	2377457
		estimated_end	2398457		
CH322-124M18	2R	8600973	8621973	estimated_end	8600973
		located_end	8621973		
CH322-124M19	2R	3096596	3117596	located_end	3096596
		estimated_end	3117596		
CH322-124N10	3RHet	2181347	2202347	estimated_end	2181347
		located_end	2202347		
CH322-124N12	3L	20492155	20513155	located_end	20492155
		estimated_end	20513155		
CH322-124N16	3R	2411769	2432769	estimated_end	2411769
		located_end	2432769		
CH322-124O09	3R	16562426	16583426	located_end	16562426
		estimated_end	16583426		
CH322-124O12	ArmU	8438628	8459628	located_end	8438628
		estimated_end	8459628		
CH322-124P10	ArmU	2429967	2450967	located_end	2429967
		estimated_end	2450967		
CH322-125A01	3R	18833085	18854085	estimated_end	18833085
		located_end	18854085		
CH322-125A02	3R	14751939	14772939	located_end	14751939
		estimated_end	14772939		
CH322-125A19	3R	26509714	26530714	estimated_end	26509714
		located_end	26530714		
CH322-125A21	2L	1084744	1105744	located_end	1084744
		estimated_end	1105744		
CH322-125B01	3L	20866535	20887535	located_end	20866535
		estimated_end	20887535		
CH322-125B10	3R	5428691	5449691	estimated_end	5428691
		located_end	5449691		
CH322-125B14	YHet	226340	247340	located_end	226340
		estimated_end	247340		
CH322-125C01	3L	22824492	22845492	located_end	22824492
		estimated_end	22845492		
CH322-125C03	2L	11998511	12019511	estimated_end	11998511
		located_end	12019511		

CH322-125C07	X	8106604	8127604	located_end	8106604
		estimated_end	8127604		
CH322-125C14	2L	15548876	15569876	estimated_end	15548876
		located_end	15569876		
CH322-125D01	3L	14570363	14591363	estimated_end	14570363
		located_end	14591363		
CH322-125D06	3L	19209667	19230667	estimated_end	19209667
		located_end	19230667		
CH322-125D09	3L	19299932	19320932	estimated_end	19299932
		located_end	19320932		
CH322-125D11	2L	14363947	14384947	located_end	14363947
		estimated_end	14384947		
CH322-125D12	2R	9193294	9214294	located_end	9193294
		estimated_end	9214294		
CH322-125D13	2R	1079065	1100065	located_end	1079065
		estimated_end	1100065		
CH322-125D14	3R	1707297	1728297	estimated_end	1707297
		located_end	1728297		
CH322-125D16	2L	1613194	1634194	located_end	1613194
		estimated_end	1634194		
CH322-125E09	3R	7984236	8005236	located_end	7984236
		estimated_end	8005236		
CH322-125E11	2L	16469741	16490741	estimated_end	16469741
		located_end	16490741		
CH322-125E13	3R	9065348	9086348	estimated_end	9065348
		located_end	9086348		
CH322-125E17	3L	11917431	11938431	located_end	11917431
		estimated_end	11938431		
CH322-125F08	3L	8838049	8859049	located_end	8838049
		estimated_end	8859049		
CH322-125F12	2L	13880683	13901683	estimated_end	13880683
		located_end	13901683		
CH322-125F15	3L	21667333	21688333	located_end	21667333
		estimated_end	21688333		
CH322-125F16	3L	6976899	6997899	located_end	6976899
		estimated_end	6997899		
CH322-125F18	2R	6881669	6902669	located_end	6881669
		estimated_end	6902669		
CH322-125F21	3R	4191382	4212382	estimated_end	4191382
		located_end	4212382		
CH322-125F22	3L	1926091	1947091	estimated_end	1926091
		located_end	1947091		
CH322-125G05	3R	15113725	15134725	estimated_end	15113725
		located_end	15134725		
CH322-125G11	3R	3888171	3909171	estimated_end	3888171
		located_end	3909171		
CH322-125G12	2R	16811163	16832163	located_end	16811163
		estimated_end	16832163		
CH322-125G15	3R	260896	281896	located_end	260896
		estimated_end	281896		
CH322-125G17	2L	2593837	2614837	estimated_end	2593837
		located_end	2614837		
CH322-125G18	3L	1426867	1447867	estimated_end	1426867
		located_end	1447867		

CH322-125G19	2L	9835686	9856686	estimated_end	9835686
		located_end	9856686		
CH322-125G20	3L	4399800	4420800	estimated_end	4399800
		located_end	4420800		
CH322-125H05	2R	6828199	6849199	estimated_end	6828199
		located_end	6849199		
CH322-125H09	2R	8299985	8320985	estimated_end	8299985
		located_end	8320985		
CH322-125H10	X	17046658	17067658	estimated_end	17046658
		located_end	17067658		
CH322-125H11	X	13097322	13118322	estimated_end	13097322
		located_end	13118322		
CH322-125H12	3L	22465336	22486336	located_end	22465336
		estimated_end	22486336		
CH322-125H13	3R	10872950	10893950	located_end	10872950
		estimated_end	10893950		
CH322-125H14	X	18783214	18804214	estimated_end	18783214
		located_end	18804214		
CH322-125H15	3L	18480330	18501330	located_end	18480330
		estimated_end	18501330		
CH322-125H16	2L	3336436	3357436	located_end	3336436
		estimated_end	3357436		
CH322-125H17	2R	10395500	10416500	located_end	10395500
		estimated_end	10416500		
CH322-125H18	2L	11856157	11877157	located_end	11856157
		estimated_end	11877157		
CH322-125H20	3R	1211273	1232273	estimated_end	1211273
		located_end	1232273		
CH322-125H21	X	16489163	16510163	estimated_end	16489163
		located_end	16510163		
CH322-125H23	4	1044833	1065833	located_end	1044833
		estimated_end	1065833		
CH322-125I01	3L	5426940	5447940	located_end	5426940
		estimated_end	5447940		
CH322-125I16	2R	11843881	11864881	estimated_end	11843881
		located_end	11864881		
CH322-125I19	3R	27256666	27277666	estimated_end	27256666
		located_end	27277666		
CH322-125I20	3R	6093514	6114514	estimated_end	6093514
		located_end	6114514		
CH322-125I22	2R	4910503	4931503	located_end	4910503
		estimated_end	4931503		
CH322-125J02	3R	14341675	14362675	located_end	14341675
		estimated_end	14362675		
CH322-125J15	2R	7558097	7579097	estimated_end	7558097
		located_end	7579097		
CH322-125J16	2L	21028107	21049107	located_end	21028107
		estimated_end	21049107		
CH322-125J18	2R	13497130	13518130	estimated_end	13497130
		located_end	13518130		
CH322-125J19	2R	16366109	16387109	estimated_end	16366109
		located_end	16387109		
CH322-125J20	3L	7318749	7339749	estimated_end	7318749
		located_end	7339749		

CH322-125J21	3R	24588259	24609259	estimated_end	24588259
		located_end	24609259		
CH322-125J22	ArmU	7979738	8000738	located_end	7979738
		estimated_end	8000738		
CH322-125K04	2R	15706328	15727328	estimated_end	15706328
		located_end	15727328		
CH322-125K06	3R	19655091	19676091	located_end	19655091
		estimated_end	19676091		
CH322-125K09	2R	8296447	8317447	located_end	8296447
		estimated_end	8317447		
CH322-125K10	2L	16203296	16224296	estimated_end	16203296
		located_end	16224296		
CH322-125K11	X	10395720	10416720	located_end	10395720
		estimated_end	10416720		
CH322-125K12	3L	13697215	13718215	located_end	13697215
		estimated_end	13718215		
CH322-125K13	3R	14336875	14357875	estimated_end	14336875
		located_end	14357875		
CH322-125K15	2L	7761378	7782378	located_end	7761378
		estimated_end	7782378		
CH322-125K16	3L	22302884	22323884	located_end	22302884
		estimated_end	22323884		
CH322-125K17	ArmU	9803127	9824127	estimated_end	9803127
		located_end	9824127		
CH322-125K18	3R	12998340	13019340	located_end	12998340
		estimated_end	13019340		
CH322-125K24	2R	7086068	7107068	located_end	7086068
		estimated_end	7107068		
CH322-125L06	3L	17152603	17173603	estimated_end	17152603
		located_end	17173603		
CH322-125L09	3L	9170890	9191890	located_end	9170890
		estimated_end	9191890		
CH322-125L10	4	842195	863195	located_end	842195
		estimated_end	863195		
CH322-125L12	2R	6362250	6383250	located_end	6362250
		estimated_end	6383250		
CH322-125L15	X	6044722	6065722	estimated_end	6044722
		located_end	6065722		
CH322-125L16	X	14480690	14501690	located_end	14480690
		estimated_end	14501690		
CH322-125L18	3L	14305963	14326963	estimated_end	14305963
		located_end	14326963		
CH322-125L19	X	17595597	17616597	estimated_end	17595597
		located_end	17616597		
CH322-125L21	2R	14646314	14667314	estimated_end	14646314
		located_end	14667314		
CH322-125M01	3R	7344544	7365544	estimated_end	7344544
		located_end	7365544		
CH322-125M05	3R	23639857	23660857	estimated_end	23639857
		located_end	23660857		
CH322-125M09	2L	7278870	7299870	located_end	7278870
		estimated_end	7299870		
CH322-125M10	3R	8061188	8082188	estimated_end	8061188
		located_end	8082188		

CH322-125M14	2R	20246191	20267191	estimated_end	20246191
		located_end	20267191		
CH322-125M15	2L	8322801	8343801	located_end	8322801
		estimated_end	8343801		
CH322-125M16	3L	10763907	10784907	estimated_end	10763907
		located_end	10784907		
CH322-125M20	X	19439057	19460057	located_end	19439057
		estimated_end	19460057		
CH322-125N05	3L	20747708	20768708	estimated_end	20747708
		located_end	20768708		
CH322-125N12	2L	6290018	6311018	estimated_end	6290018
		located_end	6311018		
CH322-125N13	3R	4077695	4098695	located_end	4077695
		estimated_end	4098695		
CH322-125N21	X	5336962	5357962	estimated_end	5336962
		located_end	5357962		
CH322-125O01	3R	16485039	16506039	located_end	16485039
		estimated_end	16506039		
CH322-125O05	3L	8628169	8649169	located_end	8628169
		estimated_end	8649169		
CH322-125O13	3R	20594211	20615211	estimated_end	20594211
		located_end	20615211		
CH322-125O19	3R	10216405	10237405	located_end	10216405
		estimated_end	10237405		
CH322-125O24	2L	1126026	1147026	located_end	1126026
		estimated_end	1147026		
CH322-125P01	3L	9703782	9724782	located_end	9703782
		estimated_end	9724782		
CH322-125P02	2R	18454099	18475099	located_end	18454099
		estimated_end	18475099		
CH322-125P16	3L	18355635	18376635	estimated_end	18355635
		located_end	18376635		
CH322-125P18	3R	10780756	10801756	estimated_end	10780756
		located_end	10801756		
CH322-125P19	2L	4851484	4872484	located_end	4851484
		estimated_end	4872484		
CH322-125P20	X	16248052	16269052	located_end	16248052
		estimated_end	16269052		
CH322-125P24	3L	10529180	10550180	located_end	10529180
		estimated_end	10550180		
CH322-126A03	3L	20464754	20485754	estimated_end	20464754
		located_end	20485754		
CH322-126A20	3L	13674925	13695925	estimated_end	13674925
		located_end	13695925		
CH322-126A22	X	4146614	4167614	located_end	4146614
		estimated_end	4167614		
CH322-126B01	X	21783105	21804105	estimated_end	21783105
		located_end	21804105		
CH322-126B04	2L	4426435	4447435	estimated_end	4426435
		located_end	4447435		
CH322-126B10	2L	20554997	20575997	located_end	20554997
		estimated_end	20575997		
CH322-126B14	2L	21365250	21386250	located_end	21365250
		estimated_end	21386250		

CH322-126B18	3L	12968243	12989243	located_end	12968243
		estimated_end	12989243		
CH322-126B20	X	10794025	10815025	estimated_end	10794025
		located_end	10815025		
CH322-126C07	3L	21102256	21123256	estimated_end	21102256
		located_end	21123256		
CH322-126C14	XHet	183570	204570	located_end	183570
		estimated_end	204570		
CH322-126C19	2R	9241703	9262703	located_end	9241703
		estimated_end	9262703		
CH322-126D08	2L	22186522	22207522	estimated_end	22186522
		located_end	22207522		
CH322-126D12	2R	17657146	17678146	located_end	17657146
		estimated_end	17678146		
CH322-126E02	3L	20609435	20630435	located_end	20609435
		estimated_end	20630435		
CH322-126E08	3R	18564354	18585354	estimated_end	18564354
		located_end	18585354		
CH322-126E09	3L	12295331	12316331	located_end	12295331
		estimated_end	12316331		
CH322-126E11	3R	256709	277709	located_end	256709
		estimated_end	277709		
CH322-126E15	3R	3401969	3422969	located_end	3401969
		estimated_end	3422969		
CH322-126E21	3R	7003374	7024374	located_end	7003374
		estimated_end	7024374		
CH322-126F01	X	20034478	20055478	estimated_end	20034478
		located_end	20055478		
CH322-126F02	3R	13944782	13965782	estimated_end	13944782
		located_end	13965782		
CH322-126F03	3L	11683885	11704885	located_end	11683885
		estimated_end	11704885		
CH322-126F07	3R	8142696	8163696	estimated_end	8142696
		located_end	8163696		
CH322-126F08	2R	6201227	6222227	located_end	6201227
		estimated_end	6222227		
CH322-126F15	2L	8712510	8733510	located_end	8712510
		estimated_end	8733510		
CH322-126G01	X	13899121	13920121	estimated_end	13899121
		located_end	13920121		
CH322-126G05	2L	11618292	11639292	estimated_end	11618292
		located_end	11639292		
CH322-126G15	3RHet	1187398	1208398	located_end	1187398
		estimated_end	1208398		
CH322-126G23	3R	24331954	24352954	estimated_end	24331954
		located_end	24352954		
CH322-126H01	2R	8580359	8601359	located_end	8580359
		estimated_end	8601359		
CH322-126H05	3R	9558557	9579557	estimated_end	9558557
		located_end	9579557		
CH322-126H07	X	5489770	5510770	estimated_end	5489770
		located_end	5510770		
CH322-126H10	3RHet	1951756	1972756	estimated_end	1951756
		located_end	1972756		

CH322-126H11	2L	14784776	14805776	located_end	14784776
		estimated_end	14805776		
CH322-126H14	3L	12334424	12355424	estimated_end	12334424
		located_end	12355424		
CH322-126H15	2R	3171965	3192965	located_end	3171965
		estimated_end	3192965		
CH322-126H24	3L	7656372	7677372	located_end	7656372
		estimated_end	7677372		
CH322-126I01	3RHet	524060	545060	estimated_end	524060
		located_end	545060		
CH322-126I02	ArmU	3573856	3594856	located_end	3573856
		estimated_end	3594856		
CH322-126I18	3L	22970393	22991393	located_end	22970393
		estimated_end	22991393		
CH322-126I24	3R	14041863	14062863	estimated_end	14041863
		located_end	14062863		
CH322-126J01	3R	20198906	20219906	located_end	20198906
		estimated_end	20219906		
CH322-126J05	3L	21035234	21056234	estimated_end	21035234
		located_end	21056234		
CH322-126J07	2R	9147409	9168409	located_end	9147409
		estimated_end	9168409		
CH322-126J10	2L	11809674	11830674	located_end	11809674
		estimated_end	11830674		
CH322-126J13	3R	4336728	4357728	estimated_end	4336728
		located_end	4357728		
CH322-126J16	2R	20339994	20360994	located_end	20339994
		estimated_end	20360994		
CH322-126J17	3R	9960174	9981174	located_end	9960174
		estimated_end	9981174		
CH322-126J19	3RHet	1648191	1669191	estimated_end	1648191
		located_end	1669191		
CH322-126J21	2L	4911767	4932767	located_end	4911767
		estimated_end	4932767		
CH322-126K08	X	17888315	17909315	located_end	17888315
		estimated_end	17909315		
CH322-126K12	X	14786449	14807449	estimated_end	14786449
		located_end	14807449		
CH322-126K15	3R	9855654	9876654	estimated_end	9855654
		located_end	9876654		
CH322-126K17	2L	17862483	17883483	estimated_end	17862483
		located_end	17883483		
CH322-126K19	2L	3908783	3929783	estimated_end	3908783
		located_end	3929783		
CH322-126L01	3RHet	1816041	1837041	located_end	1816041
		estimated_end	1837041		
CH322-126L07	2L	4496749	4517749	estimated_end	4496749
		located_end	4517749		
CH322-126L09	2L	20678382	20699382	located_end	20678382
		estimated_end	20699382		
CH322-126L23	X	16022279	16043279	located_end	16022279
		estimated_end	16043279		
CH322-126M04	ArmU	7652269	7673269	estimated_end	7652269
		located_end	7673269		

CH322-126M05	2L	18571190	18592190	located_end	18571190
		estimated_end	18592190		
CH322-126M07	3LHet	804639	825639	estimated_end	804639
		located_end	825639		
CH322-126M09	2R	7445026	7466026	located_end	7445026
		estimated_end	7466026		
CH322-126M12	2L	20765206	20786206	located_end	20765206
		estimated_end	20786206		
CH322-126M13	3R	23264918	23285918	located_end	23264918
		estimated_end	23285918		
CH322-126M17	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-126M21	ArmU	8862751	8883751	estimated_end	8862751
		located_end	8883751		
CH322-126N09	3R	4276545	4297545	located_end	4276545
		estimated_end	4297545		
CH322-126N13	3R	17724291	17745291	estimated_end	17724291
		located_end	17745291		
CH322-126O09	3R	6785176	6806176	estimated_end	6785176
		located_end	6806176		
CH322-126O17	3R	23852808	23873808	located_end	23852808
		estimated_end	23873808		
CH322-126O18	3L	9835838	9856838	located_end	9835838
		estimated_end	9856838		
CH322-126O20	3L	16680284	16701284	estimated_end	16680284
		located_end	16701284		
CH322-126P14	X	12696998	12717998	located_end	12696998
		estimated_end	12717998		
CH322-127A07	YHet	79407	100407	located_end	79407
				estimated_end	100407
CH322-127A09	3L	9467175	9488175	estimated_end	9467175
		located_end	9488175		
CH322-127B02	2L	14009032	14030032	located_end	14009032
		estimated_end	14030032		
CH322-127B12	X	18697170	18718170	located_end	18697170
		estimated_end	18718170		
CH322-127F24	2R	20835834	20856834	located_end	20835834
		estimated_end	20856834		
CH322-127G05	X	20134480	20155480	located_end	20134480
		estimated_end	20155480		
CH322-127H09	2R	7455883	7476883	estimated_end	7455883
		located_end	7476883		
CH322-127H11	2L	21304725	21325725	estimated_end	21304725
		located_end	21325725		
CH322-127I11	ArmU	3887718	3908718	located_end	3887718
		estimated_end	3908718		
CH322-127I18	X	1012174	1033174	located_end	1012174
		estimated_end	1033174		
CH322-127J04	3R	22238883	22259883	located_end	22238883
		estimated_end	22259883		
CH322-127J09	2L	11067572	11088572	located_end	11067572
		estimated_end	11088572		
CH322-127J10	2L	13341045	13362045	located_end	13341045
		estimated_end	13362045		

CH322-127J23	4	1289831	1310831	located_end	1289831
		estimated_end	1310831		
CH322-127K12	3R	19432673	19453673	estimated_end	19432673
		located_end	19453673		
CH322-127K20	3R	26342082	26363082	estimated_end	26342082
		located_end	26363082		
CH322-127L23	3R	14960620	14981620	estimated_end	14960620
		located_end	14981620		
CH322-127M09	3L	15153641	15174641	located_end	15153641
		estimated_end	15174641		
CH322-127N10	3L	19080507	19101507	estimated_end	19080507
		located_end	19101507		
CH322-127N16	2L	5831426	5852426	estimated_end	5831426
		located_end	5852426		
CH322-127O03	X	11864905	11885905	estimated_end	11864905
		located_end	11885905		
CH322-127O04	X	14184483	14205483	located_end	14184483
		estimated_end	14205483		
CH322-127O13	3R	2627602	2648602	located_end	2627602
		estimated_end	2648602		
CH322-127P01	ArmU	8316088	8337088	estimated_end	8316088
		located_end	8337088		
CH322-127P17	3R	11541493	11562493	located_end	11541493
		estimated_end	11562493		
CH322-127P20	2R	15787333	15808333	located_end	15787333
		estimated_end	15808333		
CH322-128A01	3R	18703445	18724445	estimated_end	18703445
		located_end	18724445		
CH322-128A02	3R	12071768	12092768	estimated_end	12071768
		located_end	12092768		
CH322-128A03	2L	11188438	11209438	estimated_end	11188438
		located_end	11209438		
CH322-128A04	3L	2311030	2332030	located_end	2311030
		estimated_end	2332030		
CH322-128A05	3R	24125862	24146862	estimated_end	24125862
		located_end	24146862		
CH322-128A07	2R	9577868	9598868	estimated_end	9577868
		located_end	9598868		
CH322-128A09	3R	26749672	26770672	located_end	26749672
		estimated_end	26770672		
CH322-128A10	2R	15737054	15758054	estimated_end	15737054
		located_end	15758054		
CH322-128A11	2R	12568498	12589498	estimated_end	12568498
		located_end	12589498		
CH322-128A13	2L	9068294	9089294	estimated_end	9068294
		located_end	9089294		
CH322-128A15	3L	4850704	4871704	estimated_end	4850704
		located_end	4871704		
CH322-128A16	2L	1917578	1938578	estimated_end	1917578
		located_end	1938578		
CH322-128A17	3L	5279656	5300656	located_end	5279656
		estimated_end	5300656		
CH322-128A18	2L	4203810	4224810	located_end	4203810
		estimated_end	4224810		

CH322-128A19	2R	14776560	14797560	estimated_end	14776560
		located_end	14797560		
CH322-128A20	X	12051006	12072006	located_end	12051006
		estimated_end	12072006		
CH322-128A23	4	1243611	1264611	located_end	1243611
		estimated_end	1264611		
CH322-128A24	2L	10948078	10969078	estimated_end	10948078
		located_end	10969078		
CH322-128B01	2L	22313763	22334763	estimated_end	22313763
		located_end	22334763		
CH322-128B15	3R	18634165	18655165	located_end	18634165
		estimated_end	18655165		
CH322-128B16	3R	17538255	17559255	located_end	17538255
		estimated_end	17559255		
CH322-128B18	X	5939190	5960190	estimated_end	5939190
		located_end	5960190		
CH322-128B20	3R	4338936	4359936	estimated_end	4338936
		located_end	4359936		
CH322-128B21	3L	5669948	5690948	located_end	5669948
		estimated_end	5690948		
CH322-128B23	3L	1016164	1037164	located_end	1016164
		estimated_end	1037164		
CH322-128B24	2L	5433539	5454539	estimated_end	5433539
		located_end	5454539		
CH322-128C09	2L	6079806	6100806	located_end	6079806
		estimated_end	6100806		
CH322-128C11	2R	13457228	13478228	estimated_end	13457228
		located_end	13478228		
CH322-128C17	3R	20377806	20398806	located_end	20377806
		estimated_end	20398806		
CH322-128C18	X	5705981	5726981	located_end	5705981
		estimated_end	5726981		
CH322-128C20	3L	5322655	5343655	located_end	5322655
		estimated_end	5343655		
CH322-128C21	X	8895280	8916280	estimated_end	8895280
		located_end	8916280		
CH322-128C22	2R	15744636	15765636	located_end	15744636
		estimated_end	15765636		
CH322-128C24	2L	9064600	9085600	located_end	9064600
		estimated_end	9085600		
CH322-128D12	3L	17555405	17576405	estimated_end	17555405
		located_end	17576405		
CH322-128D18	3R	22060635	22081635	located_end	22060635
		estimated_end	22081635		
CH322-128D20	3L	22946181	22967181	estimated_end	22946181
		located_end	22967181		
CH322-128D21	2L	3952504	3973504	estimated_end	3952504
		located_end	3973504		
CH322-128D22	X	17495153	17516153	estimated_end	17495153
		located_end	17516153		
CH322-128D23	2L	12065425	12086425	located_end	12065425
		estimated_end	12086425		
CH322-128D24	3R	10823193	10844193	estimated_end	10823193
		located_end	10844193		

CH322-128E19	3R	22994955	23015955	estimated_end	22994955
		located_end	23015955		
CH322-128E20	ArmU	8203648	8224648	located_end	8203648
		estimated_end	8224648		
CH322-128E21	X	5731777	5752777	estimated_end	5731777
		located_end	5752777		
CH322-128E23	2L	16528908	16549908	located_end	16528908
		estimated_end	16549908		
CH322-128F04	3L	18765923	18786923	estimated_end	18765923
		located_end	18786923		
CH322-128F07	3L	6389481	6410481	located_end	6389481
		estimated_end	6410481		
CH322-128F19	3R	13565856	13586856	estimated_end	13565856
		located_end	13586856		
CH322-128F20	2R	12443953	12464953	estimated_end	12443953
		located_end	12464953		
CH322-128F21	3R	13814360	13835360	located_end	13814360
		estimated_end	13835360		
CH322-128F22	X	10899920	10920920	estimated_end	10899920
		located_end	10920920		
CH322-128F23	2L	8748815	8769815	located_end	8748815
		estimated_end	8769815		
CH322-128F24	3R	15085259	15106259	located_end	15085259
		estimated_end	15106259		
CH322-128G17	3L	15463781	15484781	located_end	15463781
		estimated_end	15484781		
CH322-128G21	3L	7302869	7323869	estimated_end	7302869
		located_end	7323869		
CH322-128H13	3L	20739535	20760535	estimated_end	20739535
		located_end	20760535		
CH322-128H15	3L	15312952	15333952	estimated_end	15312952
		located_end	15333952		
CH322-128H18	ArmU	4868998	4889998	located_end	4868998
		estimated_end	4889998		
CH322-128H19	3L	8618124	8639124	located_end	8618124
		estimated_end	8639124		
CH322-128H20	2R	10240883	10261883	estimated_end	10240883
		located_end	10261883		
CH322-128H21	4	520416	541416	located_end	520416
		estimated_end	541416		
CH322-128H22	3R	27705384	27726384	located_end	27705384
		estimated_end	27726384		
CH322-128H23	2L	5333219	5354219	estimated_end	5333219
		located_end	5354219		
CH322-128H24	2R	5249442	5270442	estimated_end	5249442
		located_end	5270442		
CH322-128I19	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-128I21	ArmU	7744869	7765869	located_end	7744869
		estimated_end	7765869		
CH322-128I22	3R	8535871	8556871	estimated_end	8535871
		located_end	8556871		
CH322-128I23	2L	20983395	21004395	located_end	20983395
		estimated_end	21004395		

CH322-128J10	2R	10159454	10180454	estimated_end	10159454
		located_end	10180454		
CH322-128J18	3L	13900848	13921848	estimated_end	13900848
		located_end	13921848		
CH322-128J21	2R	10997885	11018885	estimated_end	10997885
		located_end	11018885		
CH322-128J23	X	2132491	2153491	located_end	2132491
		estimated_end	2153491		
CH322-128K01	X	3265925	3286925	estimated_end	3265925
		located_end	3286925		
CH322-128K12	2L	1964341	1985341	estimated_end	1964341
		located_end	1985341		
CH322-128K21	3R	11981184	12002184	located_end	11981184
		estimated_end	12002184		
CH322-128K22	X	17791370	17812370	estimated_end	17791370
		located_end	17812370		
CH322-128K23	X	20814942	20835942	estimated_end	20814942
		located_end	20835942		
CH322-128K24	3RHet	1784089	1805089	located_end	1784089
		estimated_end	1805089		
CH322-128L07	X	4696960	4717960	estimated_end	4696960
		located_end	4717960		
CH322-128L19	3L	6809671	6830671	estimated_end	6809671
		located_end	6830671		
CH322-128L21	3L	16870995	16891995	located_end	16870995
		estimated_end	16891995		
CH322-128L22	3R	1961796	1982796	located_end	1961796
		estimated_end	1982796		
CH322-128L23	X	2852333	2873333	estimated_end	2852333
		located_end	2873333		
CH322-128M15	3R	5737690	5758690	estimated_end	5737690
		located_end	5758690		
CH322-128M22	3R	20232372	20253372	estimated_end	20232372
		located_end	20253372		
CH322-128M23	3L	12062602	12083602	located_end	12062602
		estimated_end	12083602		
CH322-128N16	2L	18646553	18667553	located_end	18646553
		estimated_end	18667553		
CH322-128N19	X	9219442	9240442	estimated_end	9219442
		located_end	9240442		
CH322-128N21	3L	1848402	1869402	estimated_end	1848402
		located_end	1869402		
CH322-128N22	X	13798682	13819682	estimated_end	13798682
		located_end	13819682		
CH322-128N24	3R	931830	952830	located_end	931830
		estimated_end	952830		
CH322-128O06	ArmU	9774959	9795959	estimated_end	9774959
		located_end	9795959		
CH322-128O18	X	4943181	4964181	located_end	4943181
		estimated_end	4964181		
CH322-128O20	2R	11882134	11903134	located_end	11882134
		estimated_end	11903134		
CH322-128O21	3R	414358	435358	located_end	414358
		estimated_end	435358		

CH322-128O22	2R	11502105	11523105	estimated_end	11502105
		located_end	11523105		
CH322-128O23	X	5449107	5470107	located_end	5449107
		estimated_end	5470107		
CH322-128O24	3R	21233866	21254866	estimated_end	21233866
		located_end	21254866		
CH322-128P09	2L	22732972	22753972	located_end	22732972
		estimated_end	22753972		
CH322-128P10	3L	15458286	15479286	located_end	15458286
		estimated_end	15479286		
CH322-128P13	3L	14375472	14396472	located_end	14375472
		estimated_end	14396472		
CH322-128P14	3R	6785198	6806198	estimated_end	6785198
		located_end	6806198		
CH322-128P15	ArmU	1958992	1979992	estimated_end	1958992
		located_end	1979992		
CH322-128P16	2L	9434546	9455546	located_end	9434546
		estimated_end	9455546		
CH322-128P17	2R	8965829	8986829	estimated_end	8965829
		located_end	8986829		
CH322-128P18	3R	1683217	1704217	located_end	1683217
		estimated_end	1704217		
CH322-128P19	2RHet	1091374	1112374	estimated_end	1091374
		located_end	1112374		
CH322-128P20	2L	5368288	5389288	estimated_end	5368288
		located_end	5389288		
CH322-128P21	2L	16014976	16035976	located_end	16014976
		estimated_end	16035976		
CH322-128P22	3R	13679007	13700007	located_end	13679007
		estimated_end	13700007		
CH322-128P23	3L	9178457	9199457	estimated_end	9178457
		located_end	9199457		
CH322-128P24	3L	19609841	19630841	estimated_end	19609841
		located_end	19630841		
CH322-129A01	3R	1289486	1310486	estimated_end	1289486
		located_end	1310486		
CH322-129A06	3L	10710248	10731248	estimated_end	10710248
		located_end	10731248		
CH322-129B02	3L	4040643	4061643	estimated_end	4040643
		located_end	4061643		
CH322-129C07	3L	4064827	4085827	estimated_end	4064827
		located_end	4085827		
CH322-129C08	X	10810979	10831979	located_end	10810979
		estimated_end	10831979		
CH322-129C17	3R	3646094	3667094	located_end	3646094
		estimated_end	3667094		
CH322-129C22	2L	400869	421869	estimated_end	400869
		located_end	421869		
CH322-129D07	3L	3761144	3782144	located_end	3761144
		estimated_end	3782144		
CH322-129D17	3R	24176289	24197289	estimated_end	24176289
		located_end	24197289		
CH322-129E03	2R	14233873	14254873	located_end	14233873
		estimated_end	14254873		

CH322-129E12	3L	9945374	9966374	located_end	9945374
		estimated_end	9966374		
CH322-129E15	2R	11480839	11501839	estimated_end	11480839
		located_end	11501839		
CH322-129F07	X	13472782	13493782	estimated_end	13472782
		located_end	13493782		
CH322-129G03	3L	21908984	21929984	estimated_end	21908984
		located_end	21929984		
CH322-129G05	3L	12451794	12472794	estimated_end	12451794
		located_end	12472794		
CH322-129G19	X	6997837	7018837	located_end	6997837
		estimated_end	7018837		
CH322-129G20	2L	2010603	2031603	located_end	2010603
		estimated_end	2031603		
CH322-129H09	ArmU	2234120	2255120	located_end	2234120
		estimated_end	2255120		
CH322-129I01	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-129I03	3L	8829443	8850443	located_end	8829443
		estimated_end	8850443		
CH322-129I07	3R	10311594	10332594	estimated_end	10311594
		located_end	10332594		
CH322-129I10	2L	12953053	12974053	estimated_end	12953053
		located_end	12974053		
CH322-129I11	3R	19650919	19671919	located_end	19650919
		estimated_end	19671919		
CH322-129I13	2R	12964671	12985671	located_end	12964671
		estimated_end	12985671		
CH322-129I19	3L	17611436	17632436	located_end	17611436
		estimated_end	17632436		
CH322-129I21	2R	491319	512319	located_end	491319
		estimated_end	512319		
CH322-129J24	2L	20693282	20714282	located_end	20693282
		estimated_end	20714282		
CH322-129K11	3R	22062512	22083512	estimated_end	22062512
		located_end	22083512		
CH322-129K12	3R	21257057	21278057	estimated_end	21257057
		located_end	21278057		
CH322-129K15	3R	10816083	10837083	estimated_end	10816083
		located_end	10837083		
CH322-129M02	ArmU	9774955	9795955	estimated_end	9774955
		located_end	9795955		
CH322-129M08	3L	11084625	11105625	located_end	11084625
		estimated_end	11105625		
CH322-129M21	3R	22343232	22364232	estimated_end	22343232
		located_end	22364232		
CH322-129M24	X	5469904	5490904	estimated_end	5469904
		located_end	5490904		
CH322-129N24	2R	7765715	7786715	located_end	7765715
		estimated_end	7786715		
CH322-129O22	2L	3428868	3449868	estimated_end	3428868
		located_end	3449868		
CH322-129O23	3R	17925645	17946645	estimated_end	17925645
		located_end	17946645		

CH322-129O24	2R	20746883	20767883	located_end	20746883
		estimated_end	20767883		
CH322-129P19	2L	22868609	22889609	located_end	22868609
		estimated_end	22889609		
CH322-129P23	2L	21804943	21825943	estimated_end	21804943
		located_end	21825943		
CH322-129P24	3R	14231504	14252504	estimated_end	14231504
		located_end	14252504		
CH322-12A07	2R	9068222	9089222	estimated_end	9068222
		located_end	9089222		
CH322-12A08	3R	26711666	26732666	estimated_end	26711666
		located_end	26732666		
CH322-12A11	3R	11594100	11615100	estimated_end	11594100
		located_end	11615100		
CH322-12A12	3R	13952153	13973153	located_end	13952153
		estimated_end	13973153		
CH322-12A13	2R	18519922	18540922	located_end	18519922
		estimated_end	18540922		
CH322-12A14	2L	14989660	15010660	estimated_end	14989660
		located_end	15010660		
CH322-12A17	2RHet	3150134	3171134	estimated_end	3150134
		located_end	3171134		
CH322-12B04	2L	7899510	7920510	located_end	7899510
		estimated_end	7920510		
CH322-12B05	X	16698886	16719886	estimated_end	16698886
		located_end	16719886		
CH322-12B10	3L	6217756	6238756	estimated_end	6217756
		located_end	6238756		
CH322-12B14	3R	21414715	21435715	located_end	21414715
		estimated_end	21435715		
CH322-12B17	2R	166505	187505	located_end	166505
		estimated_end	187505		
CH322-12B19	X	6093547	6114547	located_end	6093547
		estimated_end	6114547		
CH322-12B23	2RHet	2139158	2160158	estimated_end	2139158
		located_end	2160158		
CH322-12C01	2R	1975501	1996501	located_end	1975501
		estimated_end	1996501		
CH322-12C06	2L	6041667	6062667	located_end	6041667
		estimated_end	6062667		
CH322-12C08	X	13535902	13556902	located_end	13535902
		estimated_end	13556902		
CH322-12C20	3L	15552363	15573363	estimated_end	15552363
		located_end	15573363		
CH322-12C21	3R	4712129	4733129	located_end	4712129
		estimated_end	4733129		
CH322-12D09	2R	3753413	3774413	estimated_end	3753413
		located_end	3774413		
CH322-12D18	3R	19588637	19609637	located_end	19588637
		estimated_end	19609637		
CH322-12D19	3LHet	2372744	2393744	estimated_end	2372744
		located_end	2393744		
CH322-12D22	3R	19681743	19702743	estimated_end	19681743
		located_end	19702743		

CH322-12E05 ArmU	5698993	5719993	located_end	5698993
	estimated_end	5719993		
CH322-12E11 2L	19707215	19728215	estimated_end	19707215
	located_end	19728215		
CH322-12E14 2R	9019779	9040779	located_end	9019779
	estimated_end	9040779		
CH322-12E16 3L	2075348	2096348	estimated_end	2075348
	located_end	2096348		
CH322-12E18 3R	11266913	11287913	located_end	11266913
	estimated_end	11287913		
CH322-12E21 ArmU	5756160	5777160	estimated_end	5756160
	located_end	5777160		
CH322-12E23 3L	19779772	19800772	located_end	19779772
	estimated_end	19800772		
CH322-12F03 ArmU	7762956	7783956	estimated_end	7762956
	located_end	7783956		
CH322-12F04 3L	7661065	7682065	located_end	7661065
	estimated_end	7682065		
CH322-12F08 2R	3611834	3632834	located_end	3611834
	estimated_end	3632834		
CH322-12F09 2RHet	429220	450220	estimated_end	429220
	located_end	450220		
CH322-12F13 ArmU	5698678	5719678	located_end	5698678
	estimated_end	5719678		
CH322-12F15 2R	20895257	20916257	estimated_end	20895257
	located_end	20916257		
CH322-12F20 2L	11004007	11025007	estimated_end	11004007
	located_end	11025007		
CH322-12F24 2R	5089235	5110235	estimated_end	5089235
	located_end	5110235		
CH322-12G08 3R	5503019	5524019	located_end	5503019
	estimated_end	5524019		
CH322-12G12 3L	12866410	12887410	estimated_end	12866410
	located_end	12887410		
CH322-12G15 3R	21430608	21451608	located_end	21430608
	estimated_end	21451608		
CH322-12G16 X	21141885	21162885	estimated_end	21141885
	located_end	21162885		
CH322-12G19 3R	1605964	1626964	estimated_end	1605964
	located_end	1626964		
CH322-12G23 2R	507921	528921	located_end	507921
	estimated_end	528921		
CH322-12H06 3L	1508066	1529066	estimated_end	1508066
	located_end	1529066		
CH322-12H07 2L	15855887	15876887	located_end	15855887
	estimated_end	15876887		
CH322-12H13 X	14314286	14335286	estimated_end	14314286
	located_end	14335286		
CH322-12H14 2L	16767262	16788262	located_end	16767262
	estimated_end	16788262		
CH322-12H16 3R	17050287	17071287	estimated_end	17050287
	located_end	17071287		
CH322-12H21 2R	787512	808512	located_end	787512
	estimated_end	808512		

CH322-12H24 2L	19583876	19604876	estimated_end	19583876
	located_end	19604876		
CH322-12I01 2L	17690433	17711433	estimated_end	17690433
	located_end	17711433		
CH322-12I02 2L	16142254	16163254	estimated_end	16142254
	located_end	16163254		
CH322-12I04 X	682603	703603	estimated_end	682603
	located_end	703603		
CH322-12I05 3R	5585942	5606942	located_end	5585942
	estimated_end	5606942		
CH322-12I12 2R	3376154	3397154	estimated_end	3376154
	located_end	3397154		
CH322-12I15 2R	13994363	14015363	located_end	13994363
	estimated_end	14015363		
CH322-12I16 2RHet	1570755	1591755	located_end	1570755
	estimated_end	1591755		
CH322-12I19 3L	20305444	20326444	located_end	20305444
	estimated_end	20326444		
CH322-12I20 2R	19164137	19185137	located_end	19164137
	estimated_end	19185137		
CH322-12I22 X	16346872	16367872	estimated_end	16346872
	located_end	16367872		
CH322-12J02 3R	7212956	7233956	estimated_end	7212956
	located_end	7233956		
CH322-12J06 3L	21461870	21482870	located_end	21461870
	estimated_end	21482870		
CH322-12J08 3L	18632869	18653869	located_end	18632869
	estimated_end	18653869		
CH322-12J10 X	17770379	17791379	located_end	17770379
	estimated_end	17791379		
CH322-12J18 X	16743980	16764980	located_end	16743980
	estimated_end	16764980		
CH322-12K08 X	11664536	11685536	estimated_end	11664536
	located_end	11685536		
CH322-12K20 2R	19412599	19433599	located_end	19412599
	estimated_end	19433599		
CH322-12K21 2L	19524179	19545179	estimated_end	19524179
	located_end	19545179		
CH322-12K24 3LHet	1499134	1520134	located_end	1499134
	estimated_end	1520134		
CH322-12L03 3L	24463888	24484888	estimated_end	24463888
	located_end	24484888		
CH322-12L04 3L	22670378	22691378	estimated_end	22670378
	located_end	22691378		
CH322-12L13 3R	16680194	16701194	estimated_end	16680194
	located_end	16701194		
CH322-12L16 3R	13270943	13291943	located_end	13270943
	estimated_end	13291943		
CH322-12L19 2L	4030394	4051394	located_end	4030394
	estimated_end	4051394		
CH322-12L23 3L	20701626	20722626	estimated_end	20701626
	located_end	20722626		
CH322-12M05 X	17740118	17761118	estimated_end	17740118
	located_end	17761118		

CH322-12M23 2RHet	1703572	1724572	estimated_end	1703572
	located_end	1724572		
CH322-12M24 ArmU	3085633	3106633	located_end	3085633
	estimated_end	3106633		
CH322-12N08 X	16828485	16849485	estimated_end	16828485
	located_end	16849485		
CH322-12N14 3R	12981775	13002775	estimated_end	12981775
	located_end	13002775		
CH322-12N15 3R	9393172	9414172	estimated_end	9393172
	located_end	9414172		
CH322-12N16 2LHet	156792	177792	located_end	156792
	estimated_end	177792		
CH322-12N18 3R	2085503	2106503	located_end	2085503
	estimated_end	2106503		
CH322-12N20 3R	6614219	6635219	located_end	6614219
	estimated_end	6635219		
CH322-12N23 3R	3351798	3372798	estimated_end	3351798
	located_end	3372798		
CH322-12N24 2L	519687	540687	estimated_end	519687
	located_end	540687		
CH322-12O01 X	5513124	5534124	estimated_end	5513124
	located_end	5534124		
CH322-12O05 3R	13220525	13241525	estimated_end	13220525
	located_end	13241525		
CH322-12O07 X	17771434	17792434	located_end	17771434
	estimated_end	17792434		
CH322-12O20 3R	1681321	1702321	estimated_end	1681321
	located_end	1702321		
CH322-12O21 2R	5624148	5645148	estimated_end	5624148
	located_end	5645148		
CH322-12P15 3R	2409762	2430762	estimated_end	2409762
	located_end	2430762		
CH322-130A12	2R	389343	410343	located_end 389343
	estimated_end	410343		
CH322-130B01	3R	1290729	1311729	estimated_end 1290729
	located_end	1311729		
CH322-130C06	ArmU	5929126	5950126	located_end 5929126
	estimated_end	5950126		
CH322-130C07	3R	17651746	17672746	estimated_end 17651746
	located_end	17672746		
CH322-130E11	3L	15272313	15293313	estimated_end 15272313
	located_end	15293313		
CH322-130E15	2R	7515600	7536600	located_end 7515600
	estimated_end	7536600		
CH322-130E17	3R	10025286	10046286	estimated_end 10025286
	located_end	10046286		
CH322-130E22	X	21205829	21226829	estimated_end 21205829
	located_end	21226829		
CH322-130F06	2R	9968341	9989341	located_end 9968341
	estimated_end	9989341		
CH322-130F09	X	7701455	7722455	located_end 7701455
	estimated_end	7722455		
CH322-130F11	3R	704958	725958	located_end 704958
	estimated_end	725958		

CH322-130F18	3L	17296170	17317170	estimated_end	17296170
		located_end	17317170		
CH322-130G06	ArmU	7798389	7819389	estimated_end	7798389
		located_end	7819389		
CH322-130G18	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-130G21	3L	17087703	17108703	estimated_end	17087703
		located_end	17108703		
CH322-130H08	2R	16471465	16492465	located_end	16471465
		estimated_end	16492465		
CH322-130H09	2L	22272745	22293745	estimated_end	22272745
		located_end	22293745		
CH322-130H10	3R	11197306	11218306	estimated_end	11197306
		located_end	11218306		
CH322-130H12	3LHet	1994632	2015632	located_end	1994632
		estimated_end	2015632		
CH322-130H13	3R	982435	1003435	located_end	982435
		estimated_end	1003435		
CH322-130H15	3L	20731233	20752233	located_end	20731233
		estimated_end	20752233		
CH322-130I08	2L	12798895	12819895	estimated_end	12798895
		located_end	12819895		
CH322-130I10	2L	2384581	2405581	located_end	2384581
		estimated_end	2405581		
CH322-130J05	2R	216161	237161	estimated_end	216161
		located_end	237161		
CH322-130J08	X	5258192	5279192	estimated_end	5258192
		located_end	5279192		
CH322-130J09	3R	15467574	15488574	located_end	15467574
		estimated_end	15488574		
CH322-130J15	2R	13199376	13220376	estimated_end	13199376
		located_end	13220376		
CH322-130J19	2L	9299582	9320582	located_end	9299582
		estimated_end	9320582		
CH322-130J21	ArmU	9774861	9795861	estimated_end	9774861
		located_end	9795861		
CH322-130J22	X	6519215	6540215	located_end	6519215
		estimated_end	6540215		
CH322-130K09	3R	1189479	1210479	estimated_end	1189479
		located_end	1210479		
CH322-130K11	2L	9908355	9929355	located_end	9908355
		estimated_end	9929355		
CH322-130K17	3R	8972278	8993278	estimated_end	8972278
		located_end	8993278		
CH322-130L03	X	8422043	8443043	estimated_end	8422043
		located_end	8443043		
CH322-130L07	X	946444	967444	located_end	946444
		estimated_end	967444		
CH322-130L09	2L	5925181	5946181	estimated_end	5925181
		located_end	5946181		
CH322-130L12	2R	12852671	12873671	estimated_end	12852671
		located_end	12873671		
CH322-130L13	4	856949	877949	estimated_end	856949
		located_end	877949		

CH322-130L19	2L	10508673	10529673	estimated_end	10508673
		located_end	10529673		
CH322-130L21	2L	13143666	13164666	estimated_end	13143666
		located_end	13164666		
CH322-130M09	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-130N02	2L	10669358	10690358	located_end	10669358
		estimated_end	10690358		
CH322-130N09	3R	12326612	12347612	located_end	12326612
		estimated_end	12347612		
CH322-130N15	3LHet	1943830	1964830	located_end	1943830
		estimated_end	1964830		
CH322-130N17	3R	22026047	22047047	located_end	22026047
		estimated_end	22047047		
CH322-130N18	X	18528294	18549294	located_end	18528294
		estimated_end	18549294		
CH322-130P01	2L	11965708	11986708	estimated_end	11965708
		located_end	11986708		
CH322-131A01	3R	3738936	3759936	estimated_end	3738936
		located_end	3759936		
CH322-131A19	3R	3890742	3911742	located_end	3890742
		estimated_end	3911742		
CH322-131A20	2R	8962491	8983491	located_end	8962491
		estimated_end	8983491		
CH322-131A21	2R	8564809	8585809	estimated_end	8564809
		located_end	8585809		
CH322-131A22	3R	5170559	5191559	located_end	5170559
		estimated_end	5191559		
CH322-131A23	X	379383	400383	located_end	379383
		estimated_end	400383		
CH322-131A24	3R	10463862	10484862	located_end	10463862
		estimated_end	10484862		
CH322-131B01	2R	1796926	1817926	estimated_end	1796926
		located_end	1817926		
CH322-131B24	2L	6290126	6311126	located_end	6290126
		estimated_end	6311126		
CH322-131C06	3R	11085656	11106656	estimated_end	11085656
		located_end	11106656		
CH322-131C24	3L	3261402	3282402	located_end	3261402
		estimated_end	3282402		
CH322-131D17	ArmU	5183175	5204175	located_end	5183175
		estimated_end	5204175		
CH322-131D24	3L	17720738	17741738	estimated_end	17720738
		located_end	17741738		
CH322-131E02	3R	13044896	13065896	located_end	13044896
		estimated_end	13065896		
CH322-131F07	X	942035	963035	located_end	942035
		estimated_end	963035		
CH322-131F13	3L	3808686	3829686	estimated_end	3808686
		located_end	3829686		
CH322-131G01	2L	12171769	12192769	estimated_end	12171769
		located_end	12192769		
CH322-131H04	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		

CH322-131H12	3L	22609750	22630750	estimated_end	22609750
		located_end	22630750		
CH322-131H18	2R	15158413	15179413	estimated_end	15158413
		located_end	15179413		
CH322-131H19	2L	4320695	4341695	located_end	4320695
		estimated_end	4341695		
CH322-131J08	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-131J20	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-131K02	X	121995	142995	estimated_end	121995
		located_end	142995		
CH322-131K11	3L	19261746	19282746	located_end	19261746
		estimated_end	19282746		
CH322-131L09	X	7878855	7899855	located_end	7878855
		estimated_end	7899855		
CH322-131L11	3R	27093010	27114010	located_end	27093010
		estimated_end	27114010		
CH322-131L16	2R	14223721	14244721	estimated_end	14223721
		located_end	14244721		
CH322-131L19	2R	6053377	6074377	located_end	6053377
		estimated_end	6074377		
CH322-131M02	3R	16643017	16664017	estimated_end	16643017
		located_end	16664017		
CH322-131M04	X	95529	116529	located_end	95529
		estimated_end	116529		
CH322-131M06	3R	12057202	12078202	estimated_end	12057202
		located_end	12078202		
CH322-131M10	3L	13762085	13783085	located_end	13762085
		estimated_end	13783085		
CH322-131M17	2R	7515600	7536600	located_end	7515600
		estimated_end	7536600		
CH322-131M18	3L	19003238	19024238	estimated_end	19003238
		located_end	19024238		
CH322-131N11	2L	9222782	9243782	located_end	9222782
		estimated_end	9243782		
CH322-131O02	4	441993	462993	located_end	441993
		estimated_end	462993		
CH322-131O04	3L	2287534	2308534	estimated_end	2287534
		located_end	2308534		
CH322-131O09	3R	8790173	8811173	estimated_end	8790173
		located_end	8811173		
CH322-131O11	3R	11758548	11779548	estimated_end	11758548
		located_end	11779548		
CH322-131O12	3R	24543878	24564878	estimated_end	24543878
		located_end	24564878		
CH322-131O13	X	17432119	17453119	located_end	17432119
		estimated_end	17453119		
CH322-131O16	X	6633136	6654136	estimated_end	6633136
		located_end	6654136		
CH322-131O18	3L	7789383	7810383	estimated_end	7789383
		located_end	7810383		
CH322-131O19	2L	7856429	7877429	estimated_end	7856429
		located_end	7877429		

CH322-131O22	2R	4120665	4141665	estimated_end	4120665
		located_end	4141665		
CH322-131O23	3R	20233035	20254035	estimated_end	20233035
		located_end	20254035		
CH322-131P05	3L	11037836	11058836	located_end	11037836
		estimated_end	11058836		
CH322-131P06	3R	13013944	13034944	located_end	13013944
		estimated_end	13034944		
CH322-131P09	ArmU	8146753	8167753	estimated_end	8146753
		located_end	8167753		
CH322-131P10	3R	22585321	22606321	estimated_end	22585321
		located_end	22606321		
CH322-131P11	ArmU	9917899	9938899	estimated_end	9917899
		located_end	9938899		
CH322-131P12	3L	21931172	21952172	located_end	21931172
		estimated_end	21952172		
CH322-131P13	2L	8564429	8585429	located_end	8564429
		estimated_end	8585429		
CH322-131P18	X	1691230	1712230	estimated_end	1691230
		located_end	1712230		
CH322-131P24	3L	18071202	18092202	located_end	18071202
		estimated_end	18092202		
CH322-132A04	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-132C06	2L	16257903	16278903	estimated_end	16257903
		located_end	16278903		
CH322-132C07	2L	16191722	16212722	located_end	16191722
		estimated_end	16212722		
CH322-132C10	X	1989532	2010532	estimated_end	1989532
		located_end	2010532		
CH322-132D13	X	20419252	20440252	estimated_end	20419252
		located_end	20440252		
CH322-132D15	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-132E03	ArmU	8104102	8125102	located_end	8104102
		estimated_end	8125102		
CH322-132E16	3R	5043764	5064764	located_end	5043764
		estimated_end	5064764		
CH322-132F03	2R	2833812	2854812	located_end	2833812
		estimated_end	2854812		
CH322-132F11	3R	20387933	20408933	located_end	20387933
		estimated_end	20408933		
CH322-132F12	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-132F18	ArmU	9274318	9295318	located_end	9274318
		estimated_end	9295318		
CH322-132H10	ArmU	4545909	4566909	located_end	4545909
		estimated_end	4566909		
CH322-132H14	X	8941 29941	located_end 8941	estimated_end	
		29941			
CH322-132H15	3L	2072466	2093466	located_end	2072466
		estimated_end	2093466		
CH322-132H17	ArmU	9932256	9953256	estimated_end	9932256
		located_end	9953256		

CH322-132I04	2R	1906236	1927236	estimated_end	1906236
		located_end	1927236		
CH322-132I12	2L	22141917	22162917	estimated_end	22141917
		located_end	22162917		
CH322-132I16	X	3085617	3106617	estimated_end	3085617
		located_end	3106617		
CH322-132J09	X	21998707	22019707	estimated_end	21998707
		located_end	22019707		
CH322-132K01	ArmU	9775199	9796199	estimated_end	9775199
		located_end	9796199		
CH322-132K03	2R	432372	453372	estimated_end	432372
		located_end	453372		
CH322-132K11	3R	22188304	22209304	located_end	22188304
		estimated_end	22209304		
CH322-132K15	3L	6275454	6296454	located_end	6275454
		estimated_end	6296454		
CH322-132K24	2R	4191753	4212753	estimated_end	4191753
		located_end	4212753		
CH322-132L09	X	8799456	8820456	located_end	8799456
		estimated_end	8820456		
CH322-132M03	2R	19634879	19655879	located_end	19634879
		estimated_end	19655879		
CH322-132M05	ArmU	6318515	6339515	estimated_end	6318515
		located_end	6339515		
CH322-132M07	2R	3361609	3382609	located_end	3361609
		estimated_end	3382609		
CH322-132M10	3R	6881137	6902137	estimated_end	6881137
		located_end	6902137		
CH322-132M12	2R	14079464	14100464	estimated_end	14079464
		located_end	14100464		
CH322-132M14	3L	689972	710972	estimated_end	689972
		located_end	710972		
CH322-132M16	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-132M18	2L	1989606	2010606	estimated_end	1989606
		located_end	2010606		
CH322-132N10	ArmU	2256869	2277869	estimated_end	2256869
		located_end	2277869		
CH322-132N15	3R	5841265	5862265	located_end	5841265
		estimated_end	5862265		
CH322-132O05	2L	19128377	19149377	located_end	19128377
		estimated_end	19149377		
CH322-133A03	3R	27163272	27184272	located_end	27163272
		estimated_end	27184272		
CH322-133A16	2L	10952080	10973080	estimated_end	10952080
		located_end	10973080		
CH322-133A18	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-133A21	2R	18666372	18687372	located_end	18666372
		estimated_end	18687372		
CH322-133B02	3R	22211309	22232309	estimated_end	22211309
		located_end	22232309		
CH322-133B09	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		

CH322-133B11	ArmU	2203242	2224242	located_end	2203242
		estimated_end	2224242		
CH322-133B12	2L	21093658	21114658	estimated_end	21093658
		located_end	21114658		
CH322-133C01	3L	8862936	8883936	estimated_end	8862936
		located_end	8883936		
CH322-133C05	3L	276802	297802	estimated_end	276802
		located_end	297802		
CH322-133C07	2R	16181991	16202991	estimated_end	16181991
		located_end	16202991		
CH322-133C15	2L	5814163	5835163	located_end	5814163
		estimated_end	5835163		
CH322-133C16	3L	11738668	11759668	estimated_end	11738668
		located_end	11759668		
CH322-133C22	X	10799313	10820313	estimated_end	10799313
		located_end	10820313		
CH322-133D15	2L	11412188	11433188	estimated_end	11412188
		located_end	11433188		
CH322-133D18	2L	4062654	4083654	located_end	4062654
		estimated_end	4083654		
CH322-133D20	ArmU	8119179	8140179	estimated_end	8119179
		located_end	8140179		
CH322-133D22	3L	18717337	18738337	located_end	18717337
		estimated_end	18738337		
CH322-133E02	3RHet	1147291	1168291	estimated_end	1147291
		located_end	1168291		
CH322-133E21	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-133E22	3L	19307970	19328970	estimated_end	19307970
		located_end	19328970		
CH322-133F12	3R	11856138	11877138	estimated_end	11856138
		located_end	11877138		
CH322-133F14	2L	17352987	17373987	located_end	17352987
		estimated_end	17373987		
CH322-133F21	2R	20421493	20442493	estimated_end	20421493
		located_end	20442493		
CH322-133F24	2R	7105065	7126065	located_end	7105065
		estimated_end	7126065		
CH322-133G11	X	17476865	17497865	estimated_end	17476865
		located_end	17497865		
CH322-133G22	3R	2976241	2997241	located_end	2976241
		estimated_end	2997241		
CH322-133G23	ArmU	7170136	7191136	estimated_end	7170136
		located_end	7191136		
CH322-133H17	2L	7098925	7119925	estimated_end	7098925
		located_end	7119925		
CH322-133H21	2R	4301666	4322666	located_end	4301666
		estimated_end	4322666		
CH322-133I04	2R	16606879	16627879	located_end	16606879
		estimated_end	16627879		
CH322-133I14	3L	9930653	9951653	estimated_end	9930653
		located_end	9951653		
CH322-133I20	2R	18111341	18132341	estimated_end	18111341
		located_end	18132341		

CH322-133J08	3R	15348980	15369980	located_end	15348980
		estimated_end	15369980		
CH322-133J16	2L	10880362	10901362	estimated_end	10880362
		located_end	10901362		
CH322-133J20	3R	27446372	27467372	located_end	27446372
		estimated_end	27467372		
CH322-133K17	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-133K18	X	16654884	16675884	estimated_end	16654884
		located_end	16675884		
CH322-133K21	2L	21108677	21129677	estimated_end	21108677
		located_end	21129677		
CH322-133L11	ArmU	5902447	5923447	located_end	5902447
		estimated_end	5923447		
CH322-133M11	ArmU	9023919	9044919	located_end	9023919
		estimated_end	9044919		
CH322-133N02	3R	27698699	27719699	located_end	27698699
		estimated_end	27719699		
CH322-133N19	ArmU	9774726	9795726	estimated_end	9774726
		located_end	9795726		
CH322-133N24	3R	21985739	22006739	located_end	21985739
		estimated_end	22006739		
CH322-133O11	2R	7667780	7688780	estimated_end	7667780
		located_end	7688780		
CH322-133P06	3R	6855523	6876523	estimated_end	6855523
		located_end	6876523		
CH322-134A13	2L	20512036	20533036	located_end	20512036
		estimated_end	20533036		
CH322-134A14	2R	13606800	13627800	estimated_end	13606800
		located_end	13627800		
CH322-134A15	X	20596799	20617799	located_end	20596799
		estimated_end	20617799		
CH322-134A16	3L	13941448	13962448	estimated_end	13941448
		located_end	13962448		
CH322-134B08	X	759493	780493	located_end	759493
		estimated_end	780493		
CH322-134B15	2L	13327081	13348081	estimated_end	13327081
		located_end	13348081		
CH322-134B17	2R	6067501	6088501	estimated_end	6067501
		located_end	6088501		
CH322-134B19	3L	3907108	3928108	located_end	3907108
		estimated_end	3928108		
CH322-134C10	2L	4022975	4043975	located_end	4022975
		estimated_end	4043975		
CH322-134C17	2L	15077919	15098919	estimated_end	15077919
		located_end	15098919		
CH322-134C18	3L	21463375	21484375	located_end	21463375
		estimated_end	21484375		
CH322-134C22	X	13954377	13975377	estimated_end	13954377
		located_end	13975377		
CH322-134C23	3L	15152696	15173696	estimated_end	15152696
		located_end	15173696		
CH322-134D01	3L	3066396	3087396	estimated_end	3066396
		located_end	3087396		

CH322-134D07	X	21234864	21255864	located_end	21234864
		estimated_end	21255864		
CH322-134D08	3R	2353962	2374962	estimated_end	2353962
		located_end	2374962		
CH322-134D12	2R	18828996	18849996	located_end	18828996
		estimated_end	18849996		
CH322-134D23	3L	4249857	4270857	estimated_end	4249857
		located_end	4270857		
CH322-134D24	2L	14578489	14599489	located_end	14578489
		estimated_end	14599489		
CH322-134E11	2L	2896738	2917738	located_end	2896738
		estimated_end	2917738		
CH322-134E13	3R	9216186	9237186	located_end	9216186
		estimated_end	9237186		
CH322-134E15	3LHet	1050993	1071993	located_end	1050993
		estimated_end	1071993		
CH322-134E16	ArmU	3545030	3566030	located_end	3545030
		estimated_end	3566030		
CH322-134E17	2RHet	1317676	1338676	estimated_end	1317676
		located_end	1338676		
CH322-134E19	3R	24598271	24619271	located_end	24598271
		estimated_end	24619271		
CH322-134F06	2R	9967634	9988634	located_end	9967634
		estimated_end	9988634		
CH322-134F19	X	14013689	14034689	estimated_end	14013689
		located_end	14034689		
CH322-134G02	2L	1645230	1666230	estimated_end	1645230
		located_end	1666230		
CH322-134G05	3R	20302709	20323709	located_end	20302709
		estimated_end	20323709		
CH322-134G15	4	574419	595419	estimated_end	574419
		located_end	595419		
CH322-134G21	3L	8470772	8491772	located_end	8470772
		estimated_end	8491772		
CH322-134G23	2L	16612625	16633625	estimated_end	16612625
		located_end	16633625		
CH322-134G24	2L	4330804	4351804	estimated_end	4330804
		located_end	4351804		
CH322-134H05	3R	8831197	8852197	located_end	8831197
		estimated_end	8852197		
CH322-134H12	3L	2309498	2330498	located_end	2309498
		estimated_end	2330498		
CH322-134H19	2L	19298112	19319112	estimated_end	19298112
		located_end	19319112		
CH322-134H20	2R	10817951	10838951	located_end	10817951
		estimated_end	10838951		
CH322-134I09	2L	8811371	8832371	estimated_end	8811371
		located_end	8832371		
CH322-134I15	3R	10780756	10801756	estimated_end	10780756
		located_end	10801756		
CH322-134I16	3R	18819731	18840731	estimated_end	18819731
		located_end	18840731		
CH322-134I21	3L	3288911	3309911	located_end	3288911
		estimated_end	3309911		

CH322-134J13	3L	9507096	9528096	located_end	9507096
		estimated_end	9528096		
CH322-134J15	2R	14863361	14884361	located_end	14863361
		estimated_end	14884361		
CH322-134J16	X	7742597	7763597	estimated_end	7742597
		located_end	7763597		
CH322-134J19	3R	26868803	26889803	estimated_end	26868803
		located_end	26889803		
CH322-134K07	2L	17865467	17886467	located_end	17865467
		estimated_end	17886467		
CH322-134K12	2L	14933054	14954054	estimated_end	14933054
		located_end	14954054		
CH322-134K13	2L	16682662	16703662	estimated_end	16682662
		located_end	16703662		
CH322-134K14	2R	17552769	17573769	estimated_end	17552769
		located_end	17573769		
CH322-134K15	2L	149179	170179	estimated_end	149179
		located_end	170179		
CH322-134K19	3R	15228331	15249331	located_end	15228331
		estimated_end	15249331		
CH322-134L09	3R	18044005	18065005	estimated_end	18044005
		located_end	18065005		
CH322-134L11	X	21865337	21886337	located_end	21865337
		estimated_end	21886337		
CH322-134M11	2L	8153577	8174577	located_end	8153577
		estimated_end	8174577		
CH322-134M15	3R	9425776	9446776	located_end	9425776
		estimated_end	9446776		
CH322-134M17	X	2687856	2708856	located_end	2687856
		estimated_end	2708856		
CH322-134M21	X	6965509	6986509	estimated_end	6965509
		located_end	6986509		
CH322-134M23	3R	13347823	13368823	located_end	13347823
		estimated_end	13368823		
CH322-134N11	3L	1871129	1892129	located_end	1871129
		estimated_end	1892129		
CH322-134N17	3L	14580611	14601611	located_end	14580611
		estimated_end	14601611		
CH322-134O12	ArmU	5900442	5921442	located_end	5900442
		estimated_end	5921442		
CH322-134O13	X	3099193	3120193	located_end	3099193
		estimated_end	3120193		
CH322-134P11	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-134P18	3R	7003383	7024383	located_end	7003383
		estimated_end	7024383		
CH322-135A01	3L	1694927	1715927	located_end	1694927
		estimated_end	1715927		
CH322-135A02	3R	20602868	20623868	located_end	20602868
		estimated_end	20623868		
CH322-135A15	2R	3275398	3296398	located_end	3275398
		estimated_end	3296398		
CH322-135B01	X	1427635	1448635	located_end	1427635
		estimated_end	1448635		

CH322-135C21	3R	26142515	26163515	estimated_end	26142515
		located_end	26163515		
CH322-135D01	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-135E06	2R	14872319	14893319	estimated_end	14872319
		located_end	14893319		
CH322-135E07	ArmU	2521740	2542740	located_end	2521740
		estimated_end	2542740		
CH322-135F05	3R	5404820	5425820	located_end	5404820
		estimated_end	5425820		
CH322-135F08	ArmU	6575617	6596617	located_end	6575617
		estimated_end	6596617		
CH322-135F11	2L	21657728	21678728	estimated_end	21657728
		located_end	21678728		
CH322-135G02	2R	13539704	13560704	located_end	13539704
		estimated_end	13560704		
CH322-135G05	2R	6972198	6993198	located_end	6972198
		estimated_end	6993198		
CH322-135G06	X	3997148	4018148	located_end	3997148
		estimated_end	4018148		
CH322-135G08	2L	20466916	20487916	located_end	20466916
		estimated_end	20487916		
CH322-135G09	3L	10566561	10587561	located_end	10566561
		estimated_end	10587561		
CH322-135G10	3L	11373829	11394829	located_end	11373829
		estimated_end	11394829		
CH322-135H09	2L	6751653	6772653	located_end	6751653
		estimated_end	6772653		
CH322-135H12	3R	20967852	20988852	located_end	20967852
		estimated_end	20988852		
CH322-135H14	3L	19909667	19930667	estimated_end	19909667
		located_end	19930667		
CH322-135I06	X	5480277	5501277	located_end	5480277
		estimated_end	5501277		
CH322-135I07	2R	10967068	10988068	located_end	10967068
		estimated_end	10988068		
CH322-135J05	3L	3613486	3634486	located_end	3613486
		estimated_end	3634486		
CH322-135J06	X	18137001	18158001	estimated_end	18137001
		located_end	18158001		
CH322-135J07	2R	7574620	7595620	estimated_end	7574620
		located_end	7595620		
CH322-135J13	3L	18995701	19016701	located_end	18995701
		estimated_end	19016701		
CH322-135K06	X	10608059	10629059	estimated_end	10608059
		located_end	10629059		
CH322-135K07	2L	16552871	16573871	located_end	16552871
		estimated_end	16573871		
CH322-135K08	3L	17672535	17693535	estimated_end	17672535
		located_end	17693535		
CH322-135K21	3RHet	651011	672011	estimated_end	651011
		located_end	672011		
CH322-135L01	3L	11727920	11748920	located_end	11727920
		estimated_end	11748920		

CH322-135L02	X	7633333	7654333	estimated_end	7633333
		located_end	7654333		
CH322-135L06	2L	1093586	1114586	estimated_end	1093586
		located_end	1114586		
CH322-135L07	3L	13938206	13959206	estimated_end	13938206
		located_end	13959206		
CH322-135L08	2L	617835	638835	estimated_end	617835
		located_end	638835		
CH322-135M06	3L	14239135	14260135	located_end	14239135
		estimated_end	14260135		
CH322-135M07	3L	4752156	4773156	estimated_end	4752156
		located_end	4773156		
CH322-135M08	X	14853421	14874421	located_end	14853421
		estimated_end	14874421		
CH322-135M12	3L	2448328	2469328	estimated_end	2448328
		located_end	2469328		
CH322-135M14	ArmU	5824607	5845607	located_end	5824607
		estimated_end	5845607		
CH322-135M23	3L	9739328	9760328	estimated_end	9739328
		located_end	9760328		
CH322-135N04	3L	8590934	8611934	estimated_end	8590934
		located_end	8611934		
CH322-135N05	3L	16906295	16927295	located_end	16906295
		estimated_end	16927295		
CH322-135N06	3R	24183508	24204508	located_end	24183508
		estimated_end	24204508		
CH322-135N08	2R	2685435	2706435	located_end	2685435
		estimated_end	2706435		
CH322-135N10	3R	19275465	19296465	located_end	19275465
		estimated_end	19296465		
CH322-135N16	X	5787015	5808015	located_end	5787015
		estimated_end	5808015		
CH322-135N21	3L	18718765	18739765	located_end	18718765
		estimated_end	18739765		
CH322-135O02	2R	21142696	21163696	located_end	21142696
		estimated_end	21163696		
CH322-135O04	ArmU	6176966	6197966	located_end	6176966
		estimated_end	6197966		
CH322-135O08	X	840070	861070	located_end	840070
		estimated_end	861070		
CH322-135O11	X	11746182	11767182	located_end	11746182
		estimated_end	11767182		
CH322-135O24	X	3248852	3269852	estimated_end	3248852
		located_end	3269852		
CH322-135P01	2R	19075911	19096911	located_end	19075911
		estimated_end	19096911		
CH322-135P05	2L	13588818	13609818	estimated_end	13588818
		located_end	13609818		
CH322-135P09	3LHet	2436441	2457441	estimated_end	2436441
		located_end	2457441		
CH322-135P21	3L	5157448	5178448	estimated_end	5157448
		located_end	5178448		
CH322-135P24	2L	8187878	8208878	estimated_end	8187878
		located_end	8208878		

CH322-136A01	2L	929559	950559	located_end	929559
		estimated_end	950559		
CH322-136A02	3L	18009814	18030814	estimated_end	18009814
		located_end	18030814		
CH322-136A04	3R	15324041	15345041	estimated_end	15324041
		located_end	15345041		
CH322-136A06	2R	8564809	8585809	estimated_end	8564809
		located_end	8585809		
CH322-136A07	X	5516027	5537027	located_end	5516027
		estimated_end	5537027		
CH322-136A08	3R	23121081	23142081	located_end	23121081
		estimated_end	23142081		
CH322-136A09	2R	8237369	8258369	located_end	8237369
		estimated_end	8258369		
CH322-136A10	3R	11369033	11390033	located_end	11369033
		estimated_end	11390033		
CH322-136A12	2L	8082943	8103943	located_end	8082943
		estimated_end	8103943		
CH322-136A14	2L	18593796	18614796	located_end	18593796
		estimated_end	18614796		
CH322-136A16	3L	8937423	8958423	located_end	8937423
		estimated_end	8958423		
CH322-136A17	3L	2537452	2558452	located_end	2537452
		estimated_end	2558452		
CH322-136A18	3R	9885427	9906427	located_end	9885427
		estimated_end	9906427		
CH322-136A19	3R	5018844	5039844	estimated_end	5018844
		located_end	5039844		
CH322-136A22	2L	22803123	22824123	estimated_end	22803123
		located_end	22824123		
CH322-136A23	X	20217521	20238521	estimated_end	20217521
		located_end	20238521		
CH322-136A24	3R	7628018	7649018	estimated_end	7628018
		located_end	7649018		
CH322-136B01	2L	7681839	7702839	estimated_end	7681839
		located_end	7702839		
CH322-136B02	3R	13663957	13684957	located_end	13663957
		estimated_end	13684957		
CH322-136B03	3L	6660939	6681939	located_end	6660939
		estimated_end	6681939		
CH322-136B04	2L	12370562	12391562	estimated_end	12370562
		located_end	12391562		
CH322-136B13	3R	13715451	13736451	located_end	13715451
		estimated_end	13736451		
CH322-136B15	3L	14975839	14996839	estimated_end	14975839
		located_end	14996839		
CH322-136B16	2L	9278027	9299027	estimated_end	9278027
		located_end	9299027		
CH322-136B17	3R	22131036	22152036	estimated_end	22131036
		located_end	22152036		
CH322-136B18	3L	5819618	5840618	estimated_end	5819618
		located_end	5840618		
CH322-136B22	3R	19799664	19820664	estimated_end	19799664
		located_end	19820664		

CH322-136B23	2L	10075278	10096278	estimated_end	10075278
		located_end	10096278		
CH322-136B24	2R	14797685	14818685	estimated_end	14797685
		located_end	14818685		
CH322-136C07	3R	24369266	24390266	estimated_end	24369266
		located_end	24390266		
CH322-136C15	3L	18540066	18561066	estimated_end	18540066
		located_end	18561066		
CH322-136C16	2R	9572401	9593401	located_end	9572401
		estimated_end	9593401		
CH322-136C17	X	5614552	5635552	located_end	5614552
		estimated_end	5635552		
CH322-136C18	X	5693808	5714808	located_end	5693808
		estimated_end	5714808		
CH322-136C19	2R	16321663	16342663	located_end	16321663
		estimated_end	16342663		
CH322-136C23	X	8232975	8253975	estimated_end	8232975
		located_end	8253975		
CH322-136D03	3L	19488272	19509272	located_end	19488272
		estimated_end	19509272		
CH322-136D07	2R	3769625	3790625	estimated_end	3769625
		located_end	3790625		
CH322-136D13	X	8029909	8050909	located_end	8029909
		estimated_end	8050909		
CH322-136D14	ArmU	6128976	6149976	located_end	6128976
		estimated_end	6149976		
CH322-136D15	3R	18400127	18421127	estimated_end	18400127
		located_end	18421127		
CH322-136D16	3R	14130187	14151187	estimated_end	14130187
		located_end	14151187		
CH322-136D17	2L	11630056	11651056	located_end	11630056
		estimated_end	11651056		
CH322-136D21	X	5541577	5562577	located_end	5541577
		estimated_end	5562577		
CH322-136D22	X	16878959	16899959	located_end	16878959
		estimated_end	16899959		
CH322-136D23	2R	229585	250585	estimated_end	229585
		located_end	250585		
CH322-136D24	2R	3215741	3236741	estimated_end	3215741
		located_end	3236741		
CH322-136E08	3L	14325604	14346604	located_end	14325604
		estimated_end	14346604		
CH322-136E11	3L	20538300	20559300	located_end	20538300
		estimated_end	20559300		
CH322-136E13	X	18477576	18498576	located_end	18477576
		estimated_end	18498576		
CH322-136E14	3L	8430451	8451451	located_end	8430451
		estimated_end	8451451		
CH322-136E18	2L	9695333	9716333	estimated_end	9695333
		located_end	9716333		
CH322-136E22	2L	8383707	8404707	located_end	8383707
		estimated_end	8404707		
CH322-136E23	3R	848879	869879	located_end	848879
		estimated_end	869879		

CH322-136E24	3R	20385129	20406129	located_end	20385129
		estimated_end	20406129		
CH322-136F02	3L	20563055	20584055	estimated_end	20563055
		located_end	20584055		
CH322-136F07	2R	2885674	2906674	estimated_end	2885674
		located_end	2906674		
CH322-136F08	3R	21587447	21608447	estimated_end	21587447
		located_end	21608447		
CH322-136F09	X	7189931	7210931	located_end	7189931
		estimated_end	7210931		
CH322-136F11	2R	20532157	20553157	estimated_end	20532157
		located_end	20553157		
CH322-136F14	3L	11417504	11438504	estimated_end	11417504
		located_end	11438504		
CH322-136F17	2R	21089244	21110244	estimated_end	21089244
		located_end	21110244		
CH322-136F20	3L	15379710	15400710	estimated_end	15379710
		located_end	15400710		
CH322-136F21	3L	9137621	9158621	located_end	9137621
		estimated_end	9158621		
CH322-136F23	3R	2232059	2253059	located_end	2232059
		estimated_end	2253059		
CH322-136G05	2R	12265245	12286245	located_end	12265245
		estimated_end	12286245		
CH322-136G14	X	1351501	1372501	located_end	1351501
		estimated_end	1372501		
CH322-136G15	2R	14824134	14845134	estimated_end	14824134
		located_end	14845134		
CH322-136G20	3R	5800557	5821557	located_end	5800557
		estimated_end	5821557		
CH322-136G22	2L	18874363	18895363	estimated_end	18874363
		located_end	18895363		
CH322-136G23	3R	12516485	12537485	estimated_end	12516485
		located_end	12537485		
CH322-136H01	X	7554417	7575417	located_end	7554417
		estimated_end	7575417		
CH322-136H04	3R	45313 66313	located_end 45313	estimated_end	
		66313			
CH322-136H09	3L	21096210	21117210	located_end	21096210
		estimated_end	21117210		
CH322-136H11	3L	14570345	14591345	located_end	14570345
		estimated_end	14591345		
CH322-136H19	2L	18572499	18593499	estimated_end	18572499
		located_end	18593499		
CH322-136H21	3R	23805981	23826981	estimated_end	23805981
		located_end	23826981		
CH322-136H24	3R	17737875	17758875	estimated_end	17737875
		located_end	17758875		
CH322-136I10	X	5351720	5372720	estimated_end	5351720
		located_end	5372720		
CH322-136I14	2R	6442502	6463502	estimated_end	6442502
		located_end	6463502		
CH322-136I17	3L	21032773	21053773	located_end	21032773
		estimated_end	21053773		

CH322-136I18	X	10930175	10951175	located_end	10930175
		estimated_end	10951175		
CH322-136I22	2R	5254059	5275059	located_end	5254059
		estimated_end	5275059		
CH322-136I23	3L	2658969	2679969	estimated_end	2658969
		located_end	2679969		
CH322-136J01	X	7383218	7404218	located_end	7383218
		estimated_end	7404218		
CH322-136J02	X	3927019	3948019	estimated_end	3927019
		located_end	3948019		
CH322-136J04	3R	1338169	1359169	located_end	1338169
		estimated_end	1359169		
CH322-136J12	3R	19720291	19741291	located_end	19720291
		estimated_end	19741291		
CH322-136J17	3L	2938862	2959862	located_end	2938862
		estimated_end	2959862		
CH322-136J19	2L	3724848	3745848	located_end	3724848
		estimated_end	3745848		
CH322-136J21	2L	14704546	14725546	estimated_end	14704546
		located_end	14725546		
CH322-136J23	3R	1010110	1031110	located_end	1010110
		estimated_end	1031110		
CH322-136J24	2L	11236285	11257285	estimated_end	11236285
		located_end	11257285		
CH322-136K02	X	20073761	20094761	located_end	20073761
		estimated_end	20094761		
CH322-136K05	2L	13034448	13055448	located_end	13034448
		estimated_end	13055448		
CH322-136K07	2R	10904424	10925424	estimated_end	10904424
		located_end	10925424		
CH322-136K11	2L	8626995	8647995	estimated_end	8626995
		located_end	8647995		
CH322-136K12	2L	16405652	16426652	located_end	16405652
		estimated_end	16426652		
CH322-136K16	X	8428191	8449191	located_end	8428191
		estimated_end	8449191		
CH322-136K17	3L	18618804	18639804	located_end	18618804
		estimated_end	18639804		
CH322-136K21	2L	4776481	4797481	estimated_end	4776481
		located_end	4797481		
CH322-136K22	2L	9891223	9912223	located_end	9891223
		estimated_end	9912223		
CH322-136K23	X	14251397	14272397	estimated_end	14251397
		located_end	14272397		
CH322-136K24	3L	2571079	2592079	located_end	2571079
		estimated_end	2592079		
CH322-136L01	2L	6497309	6518309	estimated_end	6497309
		located_end	6518309		
CH322-136L09	3L	2696756	2717756	located_end	2696756
		estimated_end	2717756		
CH322-136L10	X	11238250	11259250	estimated_end	11238250
		located_end	11259250		
CH322-136L17	3L	22054198	22075198	located_end	22054198
		estimated_end	22075198		

CH322-136L23	X	7234589	7255589	located_end	7234589
		estimated_end	7255589		
CH322-136L24	X	14261052	14282052	estimated_end	14261052
		located_end	14282052		
CH322-136M07	3R	22013918	22034918	estimated_end	22013918
		located_end	22034918		
CH322-136M11	2L	14286267	14307267	estimated_end	14286267
		located_end	14307267		
CH322-136M18	3R	4887757	4908757	estimated_end	4887757
		located_end	4908757		
CH322-136M19	3L	17952133	17973133	located_end	17952133
		estimated_end	17973133		
CH322-136M20	3R	2720976	2741976	estimated_end	2720976
		located_end	2741976		
CH322-136M22	2L	8277181	8298181	estimated_end	8277181
		located_end	8298181		
CH322-136M23	2L	6219764	6240764	estimated_end	6219764
		located_end	6240764		
CH322-136N01	3L	13350222	13371222	estimated_end	13350222
		located_end	13371222		
CH322-136N03	X	3390515	3411515	estimated_end	3390515
		located_end	3411515		
CH322-136N05	3L	19416704	19437704	estimated_end	19416704
		located_end	19437704		
CH322-136N08	3R	26570836	26591836	located_end	26570836
		estimated_end	26591836		
CH322-136N22	2L	10888978	10909978	located_end	10888978
		estimated_end	10909978		
CH322-136N24	3L	8581587	8602587	located_end	8581587
		estimated_end	8602587		
CH322-136O08	ArmU	6510182	6531182	estimated_end	6510182
		located_end	6531182		
CH322-136O14	2L	4499592	4520592	located_end	4499592
		estimated_end	4520592		
CH322-136O16	3L	6810640	6831640	estimated_end	6810640
		located_end	6831640		
CH322-136O19	2R	18333398	18354398	located_end	18333398
		estimated_end	18354398		
CH322-136O21	2R	19280405	19301405	estimated_end	19280405
		located_end	19301405		
CH322-136O22	3L	8062026	8083026	located_end	8062026
		estimated_end	8083026		
CH322-136O23	3L	15898338	15919338	located_end	15898338
		estimated_end	15919338		
CH322-136O24	2L	12247353	12268353	estimated_end	12247353
		located_end	12268353		
CH322-136P01	3L	5357109	5378109	located_end	5357109
		estimated_end	5378109		
CH322-136P02	3L	8899933	8920933	estimated_end	8899933
		located_end	8920933		
CH322-136P03	3L	10884393	10905393	estimated_end	10884393
		located_end	10905393		
CH322-136P04	2L	14114356	14135356	estimated_end	14114356
		located_end	14135356		

CH322-136P05	2R	6024150	6045150	estimated_end	6024150
		located_end	6045150		
CH322-136P07	X	10127146	10148146	estimated_end	10127146
		located_end	10148146		
CH322-136P10	X	5901992	5922992	located_end	5901992
		estimated_end	5922992		
CH322-136P11	2L	17304306	17325306	estimated_end	17304306
		located_end	17325306		
CH322-136P12	3R	1270195	1291195	estimated_end	1270195
		located_end	1291195		
CH322-136P14	3L	879196	900196	located_end	879196
		estimated_end	900196		
CH322-136P15	3R	23643001	23664001	located_end	23643001
		estimated_end	23664001		
CH322-136P16	2R	19123427	19144427	located_end	19123427
		estimated_end	19144427		
CH322-136P17	ArmU	7546078	7567078	estimated_end	7546078
		located_end	7567078		
CH322-136P18	X	4762153	4783153	located_end	4762153
		estimated_end	4783153		
CH322-136P19	3R	539166	560166	located_end	539166
		estimated_end	560166		
CH322-136P20	3R	10185726	10206726	located_end	10185726
		estimated_end	10206726		
CH322-136P21	X	8393850	8414850	located_end	8393850
		estimated_end	8414850		
CH322-136P22	3R	16334951	16355951	located_end	16334951
		estimated_end	16355951		
CH322-136P23	2R	17300927	17321927	estimated_end	17300927
		located_end	17321927		
CH322-136P24	3L	4400503	4421503	estimated_end	4400503
		located_end	4421503		
CH322-137A10	ArmU	2888123	2909123	located_end	2888123
		estimated_end	2909123		
CH322-137A16	ArmU	4193530	4214530	located_end	4193530
		estimated_end	4214530		
CH322-137A23	3L	19391161	19412161	estimated_end	19391161
		located_end	19412161		
CH322-137A24	3L	5992694	6013694	located_end	5992694
		estimated_end	6013694		
CH322-137B24	2L	19583580	19604580	located_end	19583580
		estimated_end	19604580		
CH322-137C03	3R	27109687	27130687	estimated_end	27109687
		located_end	27130687		
CH322-137C10	2L	4279225	4300225	located_end	4279225
		estimated_end	4300225		
CH322-137D15	3R	6967312	6988312	located_end	6967312
		estimated_end	6988312		
CH322-137D22	2R	15492617	15513617	estimated_end	15492617
		located_end	15513617		
CH322-137D24	3L	21002294	21023294	located_end	21002294
		estimated_end	21023294		
CH322-137E09	3L	20100368	20121368	located_end	20100368
		estimated_end	20121368		

CH322-137E10	X	1617629	1638629	located_end	1617629
		estimated_end	1638629		
CH322-137E13	2R	16273011	16294011	located_end	16273011
		estimated_end	16294011		
CH322-137E23	3R	23721269	23742269	located_end	23721269
		estimated_end	23742269		
CH322-137G11	3L	23764495	23785495	located_end	23764495
		estimated_end	23785495		
CH322-137H10	3L	2209999	2230999	located_end	2209999
		estimated_end	2230999		
CH322-137H16	3L	17085802	17106802	estimated_end	17085802
		located_end	17106802		
CH322-137H24	3R	26592325	26613325	located_end	26592325
		estimated_end	26613325		
CH322-137I04	3L	19770879	19791879	located_end	19770879
		estimated_end	19791879		
CH322-137I06	2L	20183873	20204873	estimated_end	20183873
		located_end	20204873		
CH322-137I09	3L	20427033	20448033	located_end	20427033
		estimated_end	20448033		
CH322-137I13	3L	3811264	3832264	estimated_end	3811264
		located_end	3832264		
CH322-137I24	3R	21752082	21773082	estimated_end	21752082
		located_end	21773082		
CH322-137J04	X	20126174	20147174	located_end	20126174
		estimated_end	20147174		
CH322-137J08	2R	11814487	11835487	located_end	11814487
		estimated_end	11835487		
CH322-137J09	2L	16495924	16516924	located_end	16495924
		estimated_end	16516924		
CH322-137J12	2R	20306348	20327348	located_end	20306348
		estimated_end	20327348		
CH322-137J15	3L	10903030	10924030	estimated_end	10903030
		located_end	10924030		
CH322-137K07	3L	8203829	8224829	estimated_end	8203829
		located_end	8224829		
CH322-137K11	2R	8772672	8793672	located_end	8772672
		estimated_end	8793672		
CH322-137K12	2R	16760812	16781812	estimated_end	16760812
		located_end	16781812		
CH322-137K21	2L	17270902	17291902	estimated_end	17270902
		located_end	17291902		
CH322-137L23	2RHet	1674230	1695230	estimated_end	1674230
		located_end	1695230		
CH322-137M01	ArmU	5701491	5722491	estimated_end	5701491
		located_end	5722491		
CH322-137O17	3R	10050373	10071373	located_end	10050373
		estimated_end	10071373		
CH322-137O18	ArmU	9774959	9795959	estimated_end	9774959
		located_end	9795959		
CH322-137O23	X	5480630	5501630	located_end	5480630
		estimated_end	5501630		
CH322-137P02	2L	22403781	22424781	located_end	22403781
		estimated_end	22424781		

CH322-137P07	3L	11245598	11266598	estimated_end	11245598
		located_end	11266598		
CH322-137P10	3R	26697585	26718585	estimated_end	26697585
		located_end	26718585		
CH322-137P20	2R	12196639	12217639	estimated_end	12196639
		located_end	12217639		
CH322-137P22	3L	4656537	4677537	located_end	4656537
		estimated_end	4677537		
CH322-137P24	3R	18099890	18120890	estimated_end	18099890
		located_end	18120890		
CH322-138A01	3R	3825073	3846073	estimated_end	3825073
		located_end	3846073		
CH322-138A03	2L	6807193	6828193	located_end	6807193
		estimated_end	6828193		
CH322-138A06	X	19599625	19620625	estimated_end	19599625
		located_end	19620625		
CH322-138A12	2L	7189631	7210631	located_end	7189631
		estimated_end	7210631		
CH322-138A13	X	4032997	4053997	located_end	4032997
		estimated_end	4053997		
CH322-138A14	3R	2500015	2521015	estimated_end	2500015
		located_end	2521015		
CH322-138A17	3R	9317932	9338932	located_end	9317932
		estimated_end	9338932		
CH322-138A18	3R	654572	675572	located_end	654572
		estimated_end	675572		
CH322-138A20	3L	13198863	13219863	estimated_end	13198863
		located_end	13219863		
CH322-138A21	2R	18739140	18760140	located_end	18739140
		estimated_end	18760140		
CH322-138A23	3R	9343021	9364021	estimated_end	9343021
		located_end	9364021		
CH322-138A24	2R	2778475	2799475	located_end	2778475
		estimated_end	2799475		
CH322-138B01	2L	10950460	10971460	estimated_end	10950460
		located_end	10971460		
CH322-138B02	3R	26085292	26106292	located_end	26085292
		estimated_end	26106292		
CH322-138B03	2R	10603177	10624177	located_end	10603177
		estimated_end	10624177		
CH322-138B04	2L	9118299	9139299	located_end	9118299
		estimated_end	9139299		
CH322-138B07	X	1863933	1884933	located_end	1863933
		estimated_end	1884933		
CH322-138B19	2R	2403760	2424760	located_end	2403760
		estimated_end	2424760		
CH322-138B21	2L	3112698	3133698	located_end	3112698
		estimated_end	3133698		
CH322-138B22	X	19251474	19272474	estimated_end	19251474
		located_end	19272474		
CH322-138B23	3L	17550210	17571210	located_end	17550210
		estimated_end	17571210		
CH322-138C03	2R	8200731	8221731	located_end	8200731
		estimated_end	8221731		

CH322-138C07	3R	24062807	24083807	located_end	24062807
		estimated_end	24083807		
CH322-138C09	2R	11326360	11347360	located_end	11326360
		estimated_end	11347360		
CH322-138C11	2L	14717183	14738183	located_end	14717183
		estimated_end	14738183		
CH322-138C19	3L	10904752	10925752	located_end	10904752
		estimated_end	10925752		
CH322-138C20	3L	1704359	1725359	located_end	1704359
		estimated_end	1725359		
CH322-138C22	3R	22838870	22859870	estimated_end	22838870
		located_end	22859870		
CH322-138D02	2L	7219456	7240456	estimated_end	7219456
		located_end	7240456		
CH322-138D11	ArmU	7899130	7920130	located_end	7899130
		estimated_end	7920130		
CH322-138D15	3L	1117559	1138559	located_end	1117559
		estimated_end	1138559		
CH322-138D16	3L	5225942	5246942	estimated_end	5225942
		located_end	5246942		
CH322-138D21	2L	4684214	4705214	located_end	4684214
		estimated_end	4705214		
CH322-138D22	3R	24183971	24204971	estimated_end	24183971
		located_end	24204971		
CH322-138D24	2L	9364697	9385697	located_end	9364697
		estimated_end	9385697		
CH322-138E01	X	8498599	8519599	estimated_end	8498599
		located_end	8519599		
CH322-138E06	3L	21891525	21912525	located_end	21891525
		estimated_end	21912525		
CH322-138E19	3L	11026175	11047175	estimated_end	11026175
		located_end	11047175		
CH322-138E23	3R	9258853	9279853	located_end	9258853
		estimated_end	9279853		
CH322-138E24	2R	10844721	10865721	located_end	10844721
		estimated_end	10865721		
CH322-138F03	2L	20125299	20146299	located_end	20125299
		estimated_end	20146299		
CH322-138F17	2R	20777739	20798739	estimated_end	20777739
		located_end	20798739		
CH322-138F23	3L	7790298	7811298	estimated_end	7790298
		located_end	7811298		
CH322-138G03	3L	6487963	6508963	located_end	6487963
		estimated_end	6508963		
CH322-138G08	3L	24093572	24114572	estimated_end	24093572
		located_end	24114572		
CH322-138G19	3L	487735	508735	located_end	487735
		estimated_end	508735		
CH322-138G21	2L	12942613	12963613	estimated_end	12942613
		located_end	12963613		
CH322-138G24	X	12189664	12210664	located_end	12189664
		estimated_end	12210664		
CH322-138H01	3L	16621747	16642747	located_end	16621747
		estimated_end	16642747		

CH322-138H04	X	14109111	14130111	estimated_end	14109111
		located_end	14130111		
CH322-138H10	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-138H21	2L	3378977	3399977	estimated_end	3378977
		located_end	3399977		
CH322-138H23	2R	3188758	3209758	located_end	3188758
		estimated_end	3209758		
CH322-138H24	3R	3407314	3428314	estimated_end	3407314
		located_end	3428314		
CH322-138I01	2R	11764099	11785099	estimated_end	11764099
		located_end	11785099		
CH322-138I02	3R	5021979	5042979	located_end	5021979
		estimated_end	5042979		
CH322-138I04	3L	17654754	17675754	estimated_end	17654754
		located_end	17675754		
CH322-138I05	3R	4989778	5010778	estimated_end	4989778
		located_end	5010778		
CH322-138I21	2R	7038759	7059759	located_end	7038759
		estimated_end	7059759		
CH322-138I23	X	14562315	14583315	located_end	14562315
		estimated_end	14583315		
CH322-138I24	3R	27445751	27466751	estimated_end	27445751
		located_end	27466751		
CH322-138J02	3L	17342750	17363750	located_end	17342750
		estimated_end	17363750		
CH322-138J04	3R	3618783	3639783	located_end	3618783
		estimated_end	3639783		
CH322-138J16	X	7699621	7720621	estimated_end	7699621
		located_end	7720621		
CH322-138J17	3L	23827317	23848317	estimated_end	23827317
		located_end	23848317		
CH322-138J21	X	6098647	6119647	located_end	6098647
		estimated_end	6119647		
CH322-138J22	2R	15956021	15977021	located_end	15956021
		estimated_end	15977021		
CH322-138J23	2R	12729646	12750646	located_end	12729646
		estimated_end	12750646		
CH322-138K01	3L	12089755	12110755	estimated_end	12089755
		located_end	12110755		
CH322-138K07	3LHet	149788	170788	estimated_end	149788
		located_end	170788		
CH322-138K09	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-138K12	3R	1502490	1523490	located_end	1502490
		estimated_end	1523490		
CH322-138K19	X	7710360	7731360	estimated_end	7710360
		located_end	7731360		
CH322-138K23	3L	16084975	16105975	located_end	16084975
		estimated_end	16105975		
CH322-138K24	2R	18289242	18310242	located_end	18289242
		estimated_end	18310242		
CH322-138L02	2R	6067472	6088472	estimated_end	6067472
		located_end	6088472		

CH322-138L16	X	11621074	11642074	located_end	11621074
estimated_end		11642074			
CH322-138L24	2L	15508581	15529581	located_end	15508581
estimated_end		15529581			
CH322-138M01	3R	6196985	6217985	located_end	6196985
estimated_end		6217985			
CH322-138M17	3R	8164623	8185623	located_end	8164623
estimated_end		8185623			
CH322-138M18	3R	633324	654324	estimated_end	633324
located_end		654324			
CH322-138M21	3R	16968213	16989213	estimated_end	16968213
located_end		16989213			
CH322-138M23	4	956950	977950	estimated_end	956950
located_end		977950			
CH322-138N15	3L	15126800	15147800	estimated_end	15126800
located_end		15147800			
CH322-138N19	X	8420119	8441119	estimated_end	8420119
located_end		8441119			
CH322-138N22	3R	12796747	12817747	located_end	12796747
estimated_end		12817747			
CH322-138N24	2R	17227528	17248528	located_end	17227528
estimated_end		17248528			
CH322-138O07	X	1065499	1086499	located_end	1065499
estimated_end		1086499			
CH322-138O11	3L	10459697	10480697	located_end	10459697
estimated_end		10480697			
CH322-138O16	3L	22105697	22126697	located_end	22105697
estimated_end		22126697			
CH322-138O17	3L	9703020	9724020	located_end	9703020
estimated_end		9724020			
CH322-138O18	2L	8488206	8509206	estimated_end	8488206
located_end		8509206			
CH322-138O19	3R	4192939	4213939	estimated_end	4192939
located_end		4213939			
CH322-138O21	3RHet	1872271	1893271	estimated_end	1872271
located_end		1893271			
CH322-138O22	3R	11519652	11540652	located_end	11519652
estimated_end		11540652			
CH322-138O23	3L	10473630	10494630	estimated_end	10473630
located_end		10494630			
CH322-138O24	3R	9743419	9764419	located_end	9743419
estimated_end		9764419			
CH322-138P01	2L	12980731	13001731	estimated_end	12980731
located_end		13001731			
CH322-138P04	X	19968508	19989508	located_end	19968508
estimated_end		19989508			
CH322-138P06	3R	15000272	15021272	located_end	15000272
estimated_end		15021272			
CH322-138P08	3R	14150234	14171234	located_end	14150234
estimated_end		14171234			
CH322-138P09	3L	6602539	6623539	located_end	6602539
estimated_end		6623539			
CH322-138P10	2L	22860594	22881594	estimated_end	22860594
located_end		22881594			

CH322-138P12	2L	1519382	1540382	located_end	1519382
		estimated_end	1540382		
CH322-138P14	3R	18047871	18068871	located_end	18047871
		estimated_end	18068871		
CH322-138P15	3L	22221546	22242546	estimated_end	22221546
		located_end	22242546		
CH322-138P17	3R	23221291	23242291	estimated_end	23221291
		located_end	23242291		
CH322-138P19	X	9592500	9613500	located_end	9592500
		estimated_end	9613500		
CH322-138P20	2R	15297408	15318408	located_end	15297408
		estimated_end	15318408		
CH322-139A01	3L	16206865	16227865	estimated_end	16206865
		located_end	16227865		
CH322-139A02	3L	4483667	4504667	estimated_end	4483667
		located_end	4504667		
CH322-139A03	3L	4598455	4619455	located_end	4598455
		estimated_end	4619455		
CH322-139A04	3L	3688718	3709718	estimated_end	3688718
		located_end	3709718		
CH322-139A14	X	4472732	4493732	located_end	4472732
		estimated_end	4493732		
CH322-139A15	2L	12582181	12603181	located_end	12582181
		estimated_end	12603181		
CH322-139A17	X	8849987	8870987	estimated_end	8849987
		located_end	8870987		
CH322-139A20	ArmU	9742365	9763365	located_end	9742365
		estimated_end	9763365		
CH322-139B02	3L	20077259	20098259	estimated_end	20077259
		located_end	20098259		
CH322-139B04	3LHet	706573	727573	estimated_end	706573
		located_end	727573		
CH322-139B07	X	17941528	17962528	estimated_end	17941528
		located_end	17962528		
CH322-139B13	ArmU	6374407	6395407	located_end	6374407
		estimated_end	6395407		
CH322-139B20	X	15744462	15765462	located_end	15744462
		estimated_end	15765462		
CH322-139B23	2L	1663502	1684502	located_end	1663502
		estimated_end	1684502		
CH322-139C01	X	19289113	19310113	estimated_end	19289113
		located_end	19310113		
CH322-139C07	2L	21924480	21945480	estimated_end	21924480
		located_end	21945480		
CH322-139C24	2L	13487743	13508743	located_end	13487743
		estimated_end	13508743		
CH322-139D01	X	12565188	12586188	located_end	12565188
		estimated_end	12586188		
CH322-139D24	2L	6044249	6065249	estimated_end	6044249
		located_end	6065249		
CH322-139E06	2R	19137192	19158192	located_end	19137192
		estimated_end	19158192		
CH322-139E22	3RHet	2443808	2464808	located_end	2443808
		estimated_end	2464808		

CH322-139F01	3R	16539415	16560415	located_end	16539415
		estimated_end	16560415		
CH322-139G05	2R	16335959	16356959	located_end	16335959
		estimated_end	16356959		
CH322-139G06	2L	11159206	11180206	estimated_end	11159206
		located_end	11180206		
CH322-139G07	3R	21906926	21927926	estimated_end	21906926
		located_end	21927926		
CH322-139G09	2R	1184383	1205383	located_end	1184383
		estimated_end	1205383		
CH322-139H01	3L	5431838	5452838	located_end	5431838
		estimated_end	5452838		
CH322-139H05	2L	11027190	11048190	located_end	11027190
		estimated_end	11048190		
CH322-139H06	3R	3801681	3822681	located_end	3801681
		estimated_end	3822681		
CH322-139H07	3L	9635815	9656815	located_end	9635815
		estimated_end	9656815		
CH322-139H08	3R	3471725	3492725	estimated_end	3471725
		located_end	3492725		
CH322-139H10	X	13785038	13806038	estimated_end	13785038
		located_end	13806038		
CH322-139I01	X	5043691	5064691	estimated_end	5043691
		located_end	5064691		
CH322-139I02	2R	3840100	3861100	estimated_end	3840100
		located_end	3861100		
CH322-139I06	3L	16106100	16127100	located_end	16106100
		estimated_end	16127100		
CH322-139I07	X	15674187	15695187	located_end	15674187
		estimated_end	15695187		
CH322-139I08	3R	23501996	23522996	estimated_end	23501996
		located_end	23522996		
CH322-139I24	3L	9316371	9337371	estimated_end	9316371
		located_end	9337371		
CH322-139J01	XHet	200511	221511	located_end	200511
		estimated_end	221511		
CH322-139J05	X	9265298	9286298	estimated_end	9265298
		located_end	9286298		
CH322-139J06	X	1480142	1501142	estimated_end	1480142
		located_end	1501142		
CH322-139J07	3R	5811781	5832781	estimated_end	5811781
		located_end	5832781		
CH322-139J12	3R	4010198	4031198	estimated_end	4010198
		located_end	4031198		
CH322-139J15	3L	19766406	19787406	estimated_end	19766406
		located_end	19787406		
CH322-139K01	3L	4113675	4134675	estimated_end	4113675
		located_end	4134675		
CH322-139K06	2L	11465646	11486646	estimated_end	11465646
		located_end	11486646		
CH322-139K07	3R	23093017	23114017	estimated_end	23093017
		located_end	23114017		
CH322-139K08	3R	11483860	11504860	estimated_end	11483860
		located_end	11504860		

CH322-139K12	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-139K22	3LHet	2473926	2494926	estimated_end	2473926
		located_end	2494926		
CH322-139L01	3L	19070417	19091417	located_end	19070417
		estimated_end	19091417		
CH322-139L02	3R	22441679	22462679	estimated_end	22441679
		located_end	22462679		
CH322-139L07	3R	18750449	18771449	estimated_end	18750449
		located_end	18771449		
CH322-139L08	3R	21211041	21232041	estimated_end	21211041
		located_end	21232041		
CH322-139L17	3R	27696317	27717317	located_end	27696317
		estimated_end	27717317		
CH322-139M01	3R	6961827	6982827	located_end	6961827
		estimated_end	6982827		
CH322-139M02	3L	3482497	3503497	located_end	3482497
		estimated_end	3503497		
CH322-139M05	3R	14303474	14324474	estimated_end	14303474
		located_end	14324474		
CH322-139M06	X	15038925	15059925	located_end	15038925
		estimated_end	15059925		
CH322-139M07	3RHet	2467060	2488060	estimated_end	2467060
		located_end	2488060		
CH322-139M17	2R	12102159	12123159	estimated_end	12102159
		located_end	12123159		
CH322-139M18	2L	13870396	13891396	located_end	13870396
		estimated_end	13891396		
CH322-139M19	ArmU	6186337	6207337	located_end	6186337
		estimated_end	6207337		
CH322-139M21	2R	19141121	19162121	located_end	19141121
		estimated_end	19162121		
CH322-139N01	2R	1242563	1263563	estimated_end	1242563
		located_end	1263563		
CH322-139N02	3R	18101228	18122228	located_end	18101228
		estimated_end	18122228		
CH322-139N04	X	4252465	4273465	located_end	4252465
		estimated_end	4273465		
CH322-139N05	3R	24260056	24281056	estimated_end	24260056
		located_end	24281056		
CH322-139N06	3R	21393850	21414850	estimated_end	21393850
		located_end	21414850		
CH322-139N08	2L	16646801	16667801	located_end	16646801
		estimated_end	16667801		
CH322-139N22	3L	121559	142559	located_end	121559
		estimated_end	142559		
CH322-139N23	3R	7686189	7707189	located_end	7686189
		estimated_end	7707189		
CH322-139O01	3L	14422394	14443394	estimated_end	14422394
		located_end	14443394		
CH322-139O02	3R	14854955	14875955	located_end	14854955
		estimated_end	14875955		
CH322-139O06	3L	19557039	19578039	located_end	19557039
		estimated_end	19578039		

CH322-139008	3R	14131048	14152048	estimated_end	14131048
		located_end	14152048		
CH322-139015	3R	25430730	25451730	located_end	25430730
		estimated_end	25451730		
CH322-139018	2L	19635271	19656271	located_end	19635271
		estimated_end	19656271		
CH322-139021	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-139022	X	13024439	13045439	estimated_end	13024439
		located_end	13045439		
CH322-139P02	2R	18619855	18640855	located_end	18619855
		estimated_end	18640855		
CH322-139P03	3R	10536505	10557505	estimated_end	10536505
		located_end	10557505		
CH322-139P05	3R	163620	184620	located_end	163620
		estimated_end	184620		
CH322-139P06	2L	388386	409386	located_end	388386
		estimated_end	409386		
CH322-139P08	2R	19656983	19677983	located_end	19656983
		estimated_end	19677983		
CH322-13A06	2L	556779	577779	located_end	556779
		estimated_end	577779		
CH322-13A07	2R	12268070	12289070	located_end	12268070
		estimated_end	12289070		
CH322-13A08	2L	7405622	7426622	located_end	7405622
		estimated_end	7426622		
CH322-13A09	3L	8267984	8288984	located_end	8267984
		estimated_end	8288984		
CH322-13A13	3R	19838832	19859832	located_end	19838832
		estimated_end	19859832		
CH322-13A16	3L	22345810	22366810	estimated_end	22345810
		located_end	22366810		
CH322-13B03	3R	11121021	11142021	located_end	11121021
		estimated_end	11142021		
CH322-13B10	2R	19926518	19947518	located_end	19926518
		estimated_end	19947518		
CH322-13B11	3L	14260987	14281987	estimated_end	14260987
		located_end	14281987		
CH322-13B19	3R	6260554	6281554	located_end	6260554
		estimated_end	6281554		
CH322-13B24	2RHet	3133854	3154854	estimated_end	3133854
		located_end	3154854		
CH322-13C01	2R	20246072	20267072	estimated_end	20246072
		located_end	20267072		
CH322-13C02	3L	23299019	23320019	estimated_end	23299019
		located_end	23320019		
CH322-13C10	3L	8902497	8923497	estimated_end	8902497
		located_end	8923497		
CH322-13C12	2L	17441730	17462730	located_end	17441730
		estimated_end	17462730		
CH322-13C15	3LHet	2542012	2563012	located_end	2542012
		estimated_end	2563012		
CH322-13C18	2RHet	694244	715244	located_end	694244
		estimated_end	715244		

CH322-13C19 2R	3974029	3995029	located_end	3974029
	estimated_end	3995029		
CH322-13C20 3R	17843741	17864741	estimated_end	17843741
	located_end	17864741		
CH322-13D01 3R	2665045	2686045	estimated_end	2665045
	located_end	2686045		
CH322-13D02 3L	12242603	12263603	estimated_end	12242603
	located_end	12263603		
CH322-13D08 X	1002825	1023825	located_end	1002825
	estimated_end	1023825		
CH322-13D11 2L	19385492	19406492	located_end	19385492
	estimated_end	19406492		
CH322-13D13 3L	19013931	19034931	estimated_end	19013931
	located_end	19034931		
CH322-13D17 3L	18238927	18259927	located_end	18238927
	estimated_end	18259927		
CH322-13D18 3L	10066753	10087753	located_end	10066753
	estimated_end	10087753		
CH322-13D23 X	1569095	1590095	estimated_end	1569095
	located_end	1590095		
CH322-13E06 3R	1622322	1643322	located_end	1622322
	estimated_end	1643322		
CH322-13E08 3L	19586327	19607327	estimated_end	19586327
	located_end	19607327		
CH322-13E10 3L	21574495	21595495	located_end	21574495
	estimated_end	21595495		
CH322-13E12 2L	21164964	21185964	located_end	21164964
	estimated_end	21185964		
CH322-13E20 3L	14032103	14053103	located_end	14032103
	estimated_end	14053103		
CH322-13E24 2R	17823974	17844974	estimated_end	17823974
	located_end	17844974		
CH322-13F02 2L	17557268	17578268	estimated_end	17557268
	located_end	17578268		
CH322-13F05 2L	12981975	13002975	estimated_end	12981975
	located_end	13002975		
CH322-13F06 3R	18430919	18451919	located_end	18430919
	estimated_end	18451919		
CH322-13F08 3R	18189645	18210645	located_end	18189645
	estimated_end	18210645		
CH322-13F09 3LHet	940415	961415	located_end	940415
	estimated_end	961415		
CH322-13F11 X	14164893	14185893	estimated_end	14164893
	located_end	14185893		
CH322-13F19 2R	11728962	11749962	located_end	11728962
	estimated_end	11749962		
CH322-13F21 2R	4851676	4872676	located_end	4851676
	estimated_end	4872676		
CH322-13F23 2L	4548584	4569584	located_end	4548584
	estimated_end	4569584		
CH322-13F24 2L	13147902	13168902	estimated_end	13147902
	located_end	13168902		
CH322-13G08 3L	16485471	16506471	located_end	16485471
	estimated_end	16506471		

CH322-13G10 3L	22894761	22915761	located_end	22894761
	estimated_end	22915761		
CH322-13G14 2RHet	1275271	1296271	estimated_end	1275271
	located_end	1296271		
CH322-13G16 2R	12634627	12655627	estimated_end	12634627
	located_end	12655627		
CH322-13G18 2RHet	1936737	1957737	estimated_end	1936737
	located_end	1957737		
CH322-13G21 3R	6321460	6342460	located_end	6321460
	estimated_end	6342460		
CH322-13G23 2R	3054768	3075768	estimated_end	3054768
	located_end	3075768		
CH322-13G24 ArmU	1091645	1112645	located_end	1091645
	estimated_end	1112645		
CH322-13H04 2RHet	1640623	1661623	located_end	1640623
	estimated_end	1661623		
CH322-13H05 3R	27561269	27582269	estimated_end	27561269
	located_end	27582269		
CH322-13H06 3R	3247408	3268408	estimated_end	3247408
	located_end	3268408		
CH322-13H08 X	18748237	18769237	located_end	18748237
	estimated_end	18769237		
CH322-13H10 3R	22315431	22336431	located_end	22315431
	estimated_end	22336431		
CH322-13H11 2L	5842547	5863547	located_end	5842547
	estimated_end	5863547		
CH322-13H12 2L	15491358	15512358	estimated_end	15491358
	located_end	15512358		
CH322-13H13 2RHet	202119	223119	estimated_end	202119
	located_end	223119		
CH322-13H14 3R	9105410	9126410	estimated_end	9105410
	located_end	9126410		
CH322-13H16 X	11004451	11025451	located_end	11004451
	estimated_end	11025451		
CH322-13H17 2L	5423140	5444140	located_end	5423140
	estimated_end	5444140		
CH322-13H22 2RHet	1828019	1849019	estimated_end	1828019
	located_end	1849019		
CH322-13I02 2L	9384858	9405858	estimated_end	9384858
	located_end	9405858		
CH322-13I03 3R	12154829	12175829	located_end	12154829
	estimated_end	12175829		
CH322-13I04 3L	16871141	16892141	estimated_end	16871141
	located_end	16892141		
CH322-13I06 3R	24721938	24742938	located_end	24721938
	estimated_end	24742938		
CH322-13I07 3R	10893825	10914825	located_end	10893825
	estimated_end	10914825		
CH322-13I08 3L	11407326	11428326	estimated_end	11407326
	located_end	11428326		
CH322-13I09 X	21040248	21061248	estimated_end	21040248
	located_end	21061248		
CH322-13I10 X	738987	759987	located_end	738987
	estimated_end	759987		

CH322-13I11 2L	14606302	14627302	estimated_end	14606302
	located_end	14627302		
CH322-13I13 3R	15988837	16009837	estimated_end	15988837
	located_end	16009837		
CH322-13I16 3L	19548185	19569185	located_end	19548185
	estimated_end	19569185		
CH322-13I18 X	17349833	17370833	located_end	17349833
	estimated_end	17370833		
CH322-13I19 X	12962798	12983798	located_end	12962798
	estimated_end	12983798		
CH322-13I21 X	8973753	8994753	estimated_end	8973753
	located_end	8994753		
CH322-13J01 3L	19986826	20007826	estimated_end	19986826
	located_end	20007826		
CH322-13J02 X	7970542	7991542	estimated_end	7970542
	located_end	7991542		
CH322-13J04 3L	1632298	1653298	located_end	1632298
	estimated_end	1653298		
CH322-13J05 3L	7111721	7132721	located_end	7111721
	estimated_end	7132721		
CH322-13J06 2R	13663683	13684683	located_end	13663683
	estimated_end	13684683		
CH322-13J08 3L	22848508	22869508	estimated_end	22848508
	located_end	22869508		
CH322-13J09 X	1795070	1816070	located_end	1795070
	estimated_end	1816070		
CH322-13J11 2L	12644033	12665033	located_end	12644033
	estimated_end	12665033		
CH322-13J14 2L	13453139	13474139	estimated_end	13453139
	located_end	13474139		
CH322-13J15 3L	18893535	18914535	estimated_end	18893535
	located_end	18914535		
CH322-13J17 3L	19803363	19824363	located_end	19803363
	estimated_end	19824363		
CH322-13J18 2R	14777725	14798725	located_end	14777725
	estimated_end	14798725		
CH322-13K02 2RHet	1296417	1317417	located_end	1296417
	estimated_end	1317417		
CH322-13K07 3L	3080624	3101624	located_end	3080624
	estimated_end	3101624		
CH322-13K08 X	2089515	2110515	located_end	2089515
	estimated_end	2110515		
CH322-13K09 2L	9711933	9732933	estimated_end	9711933
	located_end	9732933		
CH322-13K10 2L	21674867	21695867	located_end	21674867
	estimated_end	21695867		
CH322-13L05 2R	11211547	11232547	located_end	11211547
	estimated_end	11232547		
CH322-13L06 3R	18566363	18587363	estimated_end	18566363
	located_end	18587363		
CH322-13L08 2R	15166919	15187919	estimated_end	15166919
	located_end	15187919		
CH322-13L10 3L	17839084	17860084	located_end	17839084
	estimated_end	17860084		

CH322-13L11 3R	10095940	10116940	located_end	10095940
	estimated_end	10116940		
CH322-13L13 X	14328676	14349676	located_end	14328676
	estimated_end	14349676		
CH322-13L16 X	12365965	12386965	estimated_end	12365965
	located_end	12386965		
CH322-13L17 3R	14934141	14955141	estimated_end	14934141
	located_end	14955141		
CH322-13L18 2R	7488736	7509736	located_end	7488736
	estimated_end	7509736		
CH322-13L20 3L	16764838	16785838	located_end	16764838
	estimated_end	16785838		
CH322-13L22 ArmU	3384679	3405679	located_end	3384679
	estimated_end	3405679		
CH322-13L24 3L	3672983	3693983	located_end	3672983
	estimated_end	3693983		
CH322-13M05 3R	27783177	27804177	located_end	27783177
	estimated_end	27804177		
CH322-13M06 3R	801791	822791	estimated_end	801791
	located_end	822791		
CH322-13M07 2RHet	34522	55522	estimated_end	34522
	located_end	55522		
CH322-13M08 3L	13457903	13478903	located_end	13457903
	estimated_end	13478903		
CH322-13M10 ArmU	6466422	6487422	located_end	6466422
	estimated_end	6487422		
CH322-13M13 2R	15851055	15872055	estimated_end	15851055
	located_end	15872055		
CH322-13M14 3R	27440291	27461291	estimated_end	27440291
	located_end	27461291		
CH322-13M15 X	11506247	11527247	estimated_end	11506247
	located_end	11527247		
CH322-13M20 X	14384209	14405209	located_end	14384209
	estimated_end	14405209		
CH322-13M21 3L	22646007	22667007	estimated_end	22646007
	located_end	22667007		
CH322-13N02 X	170744	191744	located_end	170744
	estimated_end	191744		
CH322-13N08 3L	22231646	22252646	estimated_end	22231646
	located_end	22252646		
CH322-13N09 3R	3103555	3124555	located_end	3103555
	estimated_end	3124555		
CH322-13N10 ArmU	5698295	5719295	located_end	5698295
	estimated_end	5719295		
CH322-13N15 2L	3746441	3767441	estimated_end	3746441
	located_end	3767441		
CH322-13N18 3R	1435263	1456263	located_end	1435263
	estimated_end	1456263		
CH322-13N20 ArmU	8713094	8734094	estimated_end	8713094
	located_end	8734094		
CH322-13N22 2R	6219725	6240725	located_end	6219725
	estimated_end	6240725		
CH322-13O02 X	625464	646464	located_end	625464
	estimated_end	646464		

CH322-13005 2L	9950362	9971362	estimated_end	9950362
	located_end	9971362		
CH322-13007 2R	5398481	5419481	located_end	5398481
	estimated_end	5419481		
CH322-13014 3R	5886121	5907121	estimated_end	5886121
	located_end	5907121		
CH322-13015 3R	20454241	20475241	located_end	20454241
	estimated_end	20475241		
CH322-13017 3R	2060002	2081002	estimated_end	2060002
	located_end	2081002		
CH322-13021 3R	6024807	6045807	estimated_end	6024807
	located_end	6045807		
CH322-13023 2R	5919287	5940287	located_end	5919287
	estimated_end	5940287		
CH322-13P08 3LHet	1677152	1698152	estimated_end	1677152
	located_end	1698152		
CH322-13P14 2R	195734	216734	estimated_end	195734
	located_end	216734		
CH322-13P15 3L	869446	890446	estimated_end	869446
	located_end	890446		
CH322-13P16 3L	8303283	8324283	located_end	8303283
	estimated_end	8324283		
CH322-13P21 2R	19309325	19330325	estimated_end	19309325
	located_end	19330325		
CH322-13P23 3R	6560595	6581595	located_end	6560595
	estimated_end	6581595		
CH322-140A04 3R	3522619	3543619	estimated_end	3522619
	located_end	3543619		
CH322-140B23 3L	13779275	13800275	located_end	13779275
	estimated_end	13800275		
CH322-140C07 2L	1356463	1377463	located_end	1356463
	estimated_end	1377463		
CH322-140E08 2L	17255413	17276413	located_end	17255413
	estimated_end	17276413		
CH322-140E12 ArmU	8915955	8936955	located_end	8915955
	estimated_end	8936955		
CH322-140E14 3L	14367393	14388393	located_end	14367393
	estimated_end	14388393		
CH322-140E15 X	8846997	8867997	estimated_end	8846997
	located_end	8867997		
CH322-140E20 3R	5841110	5862110	estimated_end	5841110
	located_end	5862110		
CH322-140F23 2RHet	3181899	3202899	located_end	3181899
	estimated_end	3202899		
CH322-140H08 2L	18136283	18157283	estimated_end	18136283
	located_end	18157283		
CH322-140H20 2L	10155249	10176249	estimated_end	10155249
	located_end	10176249		
CH322-140I16 3RHet	2200093	2221093	located_end	2200093
	estimated_end	2221093		
CH322-140J13 3L	13025052	13046052	estimated_end	13025052
	located_end	13046052		
CH322-140K12 2R	3160788	3181788	located_end	3160788
	estimated_end	3181788		

CH322-140K24	X	2665863	2686863	estimated_end	2665863
		located_end	2686863		
CH322-140L09	3R	4365312	4386312	estimated_end	4365312
		located_end	4386312		
CH322-140O07	3L	23958503	23979503	located_end	23958503
		estimated_end	23979503		
CH322-140O08	3L	22292889	22313889	located_end	22292889
		estimated_end	22313889		
CH322-140P07	3R	11321575	11342575	located_end	11321575
		estimated_end	11342575		
CH322-140P08	3R	6015930	6036930	located_end	6015930
		estimated_end	6036930		
CH322-140P17	3L	13254010	13275010	located_end	13254010
		estimated_end	13275010		
CH322-140P24	2R	993729	1014729	located_end	993729
		estimated_end	1014729		
CH322-141A02	ArmU	7875855	7896855	estimated_end	7875855
		located_end	7896855		
CH322-141A04	3R	9197108	9218108	estimated_end	9197108
		located_end	9218108		
CH322-141B08	2R	12393591	12414591	located_end	12393591
		estimated_end	12414591		
CH322-141B14	2R	18149238	18170238	located_end	18149238
		estimated_end	18170238		
CH322-141B16	3L	1500900	1521900	estimated_end	1500900
		located_end	1521900		
CH322-141B22	3LHet	611201	632201	estimated_end	611201
		located_end	632201		
CH322-141C02	3L	2021100	2042100	located_end	2021100
		estimated_end	2042100		
CH322-141C06	2R	16812382	16833382	estimated_end	16812382
		located_end	16833382		
CH322-141C07	3R	26520258	26541258	estimated_end	26520258
		located_end	26541258		
CH322-141D05	3R	24614012	24635012	located_end	24614012
		estimated_end	24635012		
CH322-141D06	2R	74031 95031	located_end 74031	estimated_end	95031
CH322-141D22	3L	19943813	19964813	located_end	19943813
		estimated_end	19964813		
CH322-141E02	X	10015550	10036550	located_end	10015550
		estimated_end	10036550		
CH322-141E04	3R	23569930	23590930	located_end	23569930
		estimated_end	23590930		
CH322-141E05	3R	22566716	22587716	located_end	22566716
		estimated_end	22587716		
CH322-141E07	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-141E10	2LHet	216674	237674	estimated_end	216674
		located_end	237674		
CH322-141E24	2L	12402350	12423350	estimated_end	12402350
		located_end	12423350		
CH322-141F07	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		

CH322-141F24	2RHet	98015	119015	located_end	98015	estimated_end	119015
CH322-141G17	3L	19842628	19863628	estimated_end		19842628	located_end
CH322-141H17	2L	22411424	22432424	estimated_end		22411424	located_end
CH322-141H18	3R	11405284	11426284	located_end		11405284	estimated_end
CH322-141H23	3R	4896139	4917139	estimated_end		4896139	located_end
CH322-141I20	3R	10590127	10611127	estimated_end		10590127	located_end
CH322-141I24	3L	1100203	1121203	estimated_end		1100203	located_end
CH322-141J17	2L	20582568	20603568	estimated_end		20582568	located_end
CH322-141J20	2L	162946	183946	estimated_end		162946	located_end
CH322-141J24	2L	9543349	9564349	located_end		9543349	estimated_end
CH322-141K14	2R	21137193	21158193	located_end		21137193	estimated_end
CH322-141K18	2RHet	2794182	2815182	estimated_end		2794182	located_end
CH322-141K24	2RHet	614843	635843	located_end		614843	estimated_end
CH322-141L01	3L	21465729	21486729	located_end		21465729	estimated_end
CH322-141M10	2R	6881126	6902126	located_end		6881126	estimated_end
CH322-141P03	3R	8133195	8154195	located_end		8133195	estimated_end
CH322-141P24	3L	437458	458458	estimated_end		437458	located_end
CH322-142A01	3RHet	2267093	2288093	estimated_end		2267093	located_end
CH322-142A02	3R	3917220	3938220	estimated_end		3917220	located_end
CH322-142B02	2R	13183169	13204169	located_end		13183169	estimated_end
CH322-142C07	3L	20985810	21006810	located_end		20985810	estimated_end
CH322-142D01	3L	9170847	9191847	estimated_end		9170847	located_end
CH322-142D06	2RHet	11698	32698	located_end	11698	estimated_end	32698
CH322-142D07	ArmU	6837833	6858833	located_end		6837833	estimated_end
CH322-142D12	2R	17786000	17807000	estimated_end		17786000	located_end
CH322-142E10	2R	2246537	2267537	estimated_end		2246537	located_end
CH322-142E14	3R	23602142	23623142	estimated_end		23602142	located_end

CH322-142E17	3R	10109538	10130538	located_end	10109538
		estimated_end	10130538		
CH322-142G17	X	88296	109296	located_end	88296
		estimated_end	109296		
CH322-142G20	X	3640150	3661150	located_end	3640150
		estimated_end	3661150		
CH322-142H05	3L	13779997	13800997	located_end	13779997
		estimated_end	13800997		
CH322-142H24	3R	16543783	16564783	estimated_end	16543783
		located_end	16564783		
CH322-142I10	2L	10952748	10973748	estimated_end	10952748
		located_end	10973748		
CH322-142I19	ArmU	335819	356819	estimated_end	335819
		located_end	356819		
CH322-142I23	3L	10559668	10580668	estimated_end	10559668
		located_end	10580668		
CH322-142K11	3L	9511522	9532522	located_end	9511522
		estimated_end	9532522		
CH322-142K24	3R	25249911	25270911	estimated_end	25249911
		located_end	25270911		
CH322-142L24	3LHet	2163340	2184340	estimated_end	2163340
		located_end	2184340		
CH322-142M04	3R	23168585	23189585	estimated_end	23168585
		located_end	23189585		
CH322-142M12	3R	20859166	20880166	located_end	20859166
		estimated_end	20880166		
CH322-142M24	2R	1193483	1214483	estimated_end	1193483
		located_end	1214483		
CH322-142N24	2R	18829293	18850293	located_end	18829293
		estimated_end	18850293		
CH322-142O02	2R	11283189	11304189	estimated_end	11283189
		located_end	11304189		
CH322-142O09	3R	22186719	22207719	located_end	22186719
		estimated_end	22207719		
CH322-142O23	X	2664862	2685862	estimated_end	2664862
		located_end	2685862		
CH322-143B20	X	1704381	1725381	located_end	1704381
		estimated_end	1725381		
CH322-143C07	2L	19828828	19849828	estimated_end	19828828
		located_end	19849828		
CH322-143D10	2RHet	3182148	3203148	located_end	3182148
		estimated_end	3203148		
CH322-143D13	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-143D14	3L	215337	236337	estimated_end	215337
		located_end	236337		
CH322-143D19	3R	5809787	5830787	located_end	5809787
		estimated_end	5830787		
CH322-143D22	ArmU	4026398	4047398	located_end	4026398
		estimated_end	4047398		
CH322-143E12	2L	10157552	10178552	estimated_end	10157552
		located_end	10178552		
CH322-143E14	3R	26897046	26918046	estimated_end	26897046
		located_end	26918046		

CH322-143E21	2R	8681537	8702537	estimated_end	8681537
		located_end	8702537		
CH322-143E22	3L	20416063	20437063	estimated_end	20416063
		located_end	20437063		
CH322-143F01	3LHet	13304 34304	estimated_end	13304	located_end
		34304			
CH322-143H08	2RHet	3182148	3203148	located_end	3182148
		estimated_end	3203148		
CH322-143H13	ArmU	7436617	7457617	located_end	7436617
		estimated_end	7457617		
CH322-143H17	2L	5395463	5416463	located_end	5395463
		estimated_end	5416463		
CH322-143H22	ArmU	5680684	5701684	estimated_end	5680684
		located_end	5701684		
CH322-143K12	2L	15829656	15850656	located_end	15829656
		estimated_end	15850656		
CH322-143K15	2R	20223559	20244559	located_end	20223559
		estimated_end	20244559		
CH322-143L02	2R	8488947	8509947	estimated_end	8488947
		located_end	8509947		
CH322-143L18	3R	11570196	11591196	located_end	11570196
		estimated_end	11591196		
CH322-143M08	2R	15159131	15180131	located_end	15159131
		estimated_end	15180131		
CH322-143N03	ArmU	5929154	5950154	located_end	5929154
		estimated_end	5950154		
CH322-143N23	2RHet	3174826	3195826	located_end	3174826
		estimated_end	3195826		
CH322-143O01	X	11410217	11431217	located_end	11410217
		estimated_end	11431217		
CH322-143O17	2R	1771056	1792056	located_end	1771056
		estimated_end	1792056		
CH322-143O23	ArmU	9774928	9795928	estimated_end	9774928
		located_end	9795928		
CH322-143P05	3L	11244045	11265045	located_end	11244045
		estimated_end	11265045		
CH322-143P17	3L	20431531	20452531	located_end	20431531
		estimated_end	20452531		
CH322-143P23	X	19642172	19663172	located_end	19642172
		estimated_end	19663172		
CH322-144A03	3R	4908762	4929762	located_end	4908762
		estimated_end	4929762		
CH322-144A04	3R	10662542	10683542	estimated_end	10662542
		located_end	10683542		
CH322-144C07	3R	2360056	2381056	estimated_end	2360056
		located_end	2381056		
CH322-144C15	ArmU	7287556	7308556	located_end	7287556
		estimated_end	7308556		
CH322-144C21	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-144D24	2RHet	702606	723606	estimated_end	702606
		located_end	723606		
CH322-144F01	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		

CH322-144I03	3L	23694447	23715447	estimated_end	23694447
		located_end	23715447		
CH322-144I08	2L	13416396	13437396	estimated_end	13416396
		located_end	13437396		
CH322-144I12	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-144J02	ArmU	7645294	7666294	estimated_end	7645294
		located_end	7666294		
CH322-144J11	ArmU	3210512	3231512	estimated_end	3210512
		located_end	3231512		
CH322-144K05	ArmU	1479691	1500691	located_end	1479691
		estimated_end	1500691		
CH322-144K22	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-144L05	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-144L14	3R	27696391	27717391	located_end	27696391
		estimated_end	27717391		
CH322-144L22	3R	15265863	15286863	estimated_end	15265863
		located_end	15286863		
CH322-144N07	3R	3965836	3986836	located_end	3965836
		estimated_end	3986836		
CH322-144P06	3R	13333110	13354110	estimated_end	13333110
		located_end	13354110		
CH322-145A24	3L	6412036	6433036	estimated_end	6412036
		located_end	6433036		
CH322-145B14	2R	9817646	9838646	estimated_end	9817646
		located_end	9838646		
CH322-145B20	2L	13380081	13401081	located_end	13380081
		estimated_end	13401081		
CH322-145C03	2R	9599447	9620447	located_end	9599447
		estimated_end	9620447		
CH322-145C07	2R	8866645	8887645	located_end	8866645
		estimated_end	8887645		
CH322-145C12	3LHet	149404	170404	estimated_end	149404
		located_end	170404		
CH322-145C20	3L	3063403	3084403	estimated_end	3063403
		located_end	3084403		
CH322-145C21	2R	5287195	5308195	located_end	5287195
		estimated_end	5308195		
CH322-145D08	3L	13017668	13038668	located_end	13017668
		estimated_end	13038668		
CH322-145D19	X	14171360	14192360	estimated_end	14171360
		located_end	14192360		
CH322-145D20	3R	2799368	2820368	located_end	2799368
		estimated_end	2820368		
CH322-145D21	X	14709796	14730796	located_end	14709796
		estimated_end	14730796		
CH322-145D22	X	16358472	16379472	located_end	16358472
		estimated_end	16379472		
CH322-145D23	2L	17884880	17905880	estimated_end	17884880
		located_end	17905880		
CH322-145E17	3R	23125239	23146239	located_end	23125239
		estimated_end	23146239		

CH322-145E21	3L	7178423	7199423	estimated_end	7178423
		located_end	7199423		
CH322-145F13	3R	15967304	15988304	located_end	15967304
		estimated_end	15988304		
CH322-145F21	3R	25832211	25853211	located_end	25832211
		estimated_end	25853211		
CH322-145F23	3L	16822363	16843363	located_end	16822363
		estimated_end	16843363		
CH322-145G24	X	21897504	21918504	estimated_end	21897504
		located_end	21918504		
CH322-145H17	3R	12666420	12687420	estimated_end	12666420
		located_end	12687420		
CH322-145H18	3R	22688392	22709392	estimated_end	22688392
		located_end	22709392		
CH322-145H20	3R	7051971	7072971	estimated_end	7051971
		located_end	7072971		
CH322-145I10	3R	4495519	4516519	estimated_end	4495519
		located_end	4516519		
CH322-145I14	ArmU	8085445	8106445	estimated_end	8085445
		located_end	8106445		
CH322-145I21	3R	16845263	16866263	located_end	16845263
		estimated_end	16866263		
CH322-145I23	3L	3328759	3349759	located_end	3328759
		estimated_end	3349759		
CH322-145I24	2R	16677484	16698484	located_end	16677484
		estimated_end	16698484		
CH322-145J03	3R	22342652	22363652	estimated_end	22342652
		located_end	22363652		
CH322-145J08	3L	21952717	21973717	estimated_end	21952717
		located_end	21973717		
CH322-145J10	3L	22873027	22894027	located_end	22873027
		estimated_end	22894027		
CH322-145J12	3R	23200421	23221421	estimated_end	23200421
		located_end	23221421		
CH322-145J17	2L	12682893	12703893	estimated_end	12682893
		located_end	12703893		
CH322-145J22	3R	7960862	7981862	estimated_end	7960862
		located_end	7981862		
CH322-145J23	2L	15337223	15358223	estimated_end	15337223
		located_end	15358223		
CH322-145K24	ArmU	601304	622304	estimated_end	601304
		located_end	622304		
CH322-145L14	2R	13792406	13813406	located_end	13792406
		estimated_end	13813406		
CH322-145L18	3L	12293875	12314875	estimated_end	12293875
		located_end	12314875		
CH322-145L22	3L	20651184	20672184	estimated_end	20651184
		located_end	20672184		
CH322-145L24	X	16859346	16880346	located_end	16859346
		estimated_end	16880346		
CH322-145M24	2L	8024514	8045514	estimated_end	8024514
		located_end	8045514		
CH322-145N18	3L	7853237	7874237	located_end	7853237
		estimated_end	7874237		

CH322-145N23	3R	14148526	14169526	estimated_end	14148526
		located_end	14169526		
CH322-145N24	3R	11945204	11966204	located_end	11945204
		estimated_end	11966204		
CH322-145O06	3L	9105865	9126865	located_end	9105865
		estimated_end	9126865		
CH322-145O08	2R	12429762	12450762	estimated_end	12429762
		located_end	12450762		
CH322-145O21	3R	2680727	2701727	estimated_end	2680727
		located_end	2701727		
CH322-145P18	X	4402004	4423004	located_end	4402004
		estimated_end	4423004		
CH322-145P19	2L	19660543	19681543	estimated_end	19660543
		located_end	19681543		
CH322-145P21	3R	7865929	7886929	located_end	7865929
		estimated_end	7886929		
CH322-145P22	X	968303	989303	estimated_end	968303
		located_end	989303		
CH322-145P23	2R	9001033	9022033	estimated_end	9001033
		located_end	9022033		
CH322-146A05	3L	164142	185142	located_end	164142
		estimated_end	185142		
CH322-146A16	3L	16531599	16552599	located_end	16531599
		estimated_end	16552599		
CH322-146B01	X	4449071	4470071	estimated_end	4449071
		located_end	4470071		
CH322-146B03	3L	2417033	2438033	estimated_end	2417033
		located_end	2438033		
CH322-146B14	2R	17329746	17350746	estimated_end	17329746
		located_end	17350746		
CH322-146B23	3L	14882342	14903342	estimated_end	14882342
		located_end	14903342		
CH322-146C03	2L	17155252	17176252	located_end	17155252
		estimated_end	17176252		
CH322-146C07	2R	10205066	10226066	located_end	10205066
		estimated_end	10226066		
CH322-146D04	2R	15493824	15514824	located_end	15493824
		estimated_end	15514824		
CH322-146D07	3R	6235855	6256855	located_end	6235855
		estimated_end	6256855		
CH322-146D08	X	14006635	14027635	estimated_end	14006635
		located_end	14027635		
CH322-146D17	ArmU	8358727	8379727	located_end	8358727
		estimated_end	8379727		
CH322-146E02	3R	7476654	7497654	estimated_end	7476654
		located_end	7497654		
CH322-146E24	2L	13826610	13847610	estimated_end	13826610
		located_end	13847610		
CH322-146F13	2R	12696072	12717072	estimated_end	12696072
		located_end	12717072		
CH322-146F23	2R	21080311	21101311	located_end	21080311
		estimated_end	21101311		
CH322-146G05	2R	17032830	17053830	estimated_end	17032830
		located_end	17053830		

CH322-146G20	X	20814942	20835942	estimated_end	20814942
		located_end	20835942		
CH322-146H03	3L	6730025	6751025	estimated_end	6730025
		located_end	6751025		
CH322-146H09	3R	7178726	7199726	estimated_end	7178726
		located_end	7199726		
CH322-146H10	2R	16252379	16273379	located_end	16252379
		estimated_end	16273379		
CH322-146H12	X	2186202	2207202	located_end	2186202
		estimated_end	2207202		
CH322-146H21	3R	18536816	18557816	estimated_end	18536816
		located_end	18557816		
CH322-146I09	3R	8669440	8690440	located_end	8669440
		estimated_end	8690440		
CH322-146I13	2L	15076579	15097579	located_end	15076579
		estimated_end	15097579		
CH322-146I15	X	6814229	6835229	located_end	6814229
		estimated_end	6835229		
CH322-146I21	3L	2528875	2549875	estimated_end	2528875
		located_end	2549875		
CH322-146I23	ArmU	2682893	2703893	estimated_end	2682893
		located_end	2703893		
CH322-146J07	2L	1460988	1481988	located_end	1460988
		estimated_end	1481988		
CH322-146J08	ArmU	1950024	1971024	estimated_end	1950024
		located_end	1971024		
CH322-146J23	2L	17670565	17691565	located_end	17670565
		estimated_end	17691565		
CH322-146K08	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-146K09	2L	9039743	9060743	estimated_end	9039743
		located_end	9060743		
CH322-146K10	2R	16421872	16442872	estimated_end	16421872
		located_end	16442872		
CH322-146K12	2R	14643373	14664373	located_end	14643373
		estimated_end	14664373		
CH322-146K21	3L	17178784	17199784	estimated_end	17178784
		located_end	17199784		
CH322-146L09	3L	12988831	13009831	estimated_end	12988831
		located_end	13009831		
CH322-146L11	3R	13531133	13552133	estimated_end	13531133
		located_end	13552133		
CH322-146M06	ArmU	7583799	7604799	located_end	7583799
		estimated_end	7604799		
CH322-146M08	3L	20747646	20768646	estimated_end	20747646
		located_end	20768646		
CH322-146M09	3L	6411820	6432820	estimated_end	6411820
		located_end	6432820		
CH322-146M10	ArmU	3842712	3863712	estimated_end	3842712
		located_end	3863712		
CH322-146M11	X	18632473	18653473	located_end	18632473
		estimated_end	18653473		
CH322-146M13	3L	4569369	4590369	estimated_end	4569369
		located_end	4590369		

CH322-146M16	X	11528239	11549239	estimated_end	11528239
		located_end	11549239		
CH322-146N23	2L	5003608	5024608	estimated_end	5003608
		located_end	5024608		
CH322-146O02	2R	7126217	7147217	estimated_end	7126217
		located_end	7147217		
CH322-147B18	2R	17627000	17648000	estimated_end	17627000
		located_end	17648000		
CH322-147B21	2R	9122427	9143427	located_end	9122427
		estimated_end	9143427		
CH322-147B24	3R	15944710	15965710	located_end	15944710
		estimated_end	15965710		
CH322-147C07	3L	6608606	6629606	estimated_end	6608606
		located_end	6629606		
CH322-147C17	ArmU	6459876	6480876	estimated_end	6459876
		located_end	6480876		
CH322-147D02	3R	8661887	8682887	located_end	8661887
		estimated_end	8682887		
CH322-147D04	2RHet	2626834	2647834	located_end	2626834
		estimated_end	2647834		
CH322-147D11	2R	18744270	18765270	estimated_end	18744270
		located_end	18765270		
CH322-147F03	ArmU	2087692	2108692	located_end	2087692
		estimated_end	2108692		
CH322-147G10	2L	7157858	7178858	located_end	7157858
		estimated_end	7178858		
CH322-147H13	2RHet	2553015	2574015	estimated_end	2553015
		located_end	2574015		
CH322-147H20	3L	21353497	21374497	estimated_end	21353497
		located_end	21374497		
CH322-147I02	3R	17644394	17665394	estimated_end	17644394
		located_end	17665394		
CH322-147I13	2L	5168835	5189835	located_end	5168835
		estimated_end	5189835		
CH322-147I14	ArmU	4871542	4892542	located_end	4871542
		estimated_end	4892542		
CH322-147I24	3R	18360242	18381242	estimated_end	18360242
		located_end	18381242		
CH322-147J23	ArmU	3672518	3693518	estimated_end	3672518
		located_end	3693518		
CH322-147K12	3L	1196863	1217863	estimated_end	1196863
		located_end	1217863		
CH322-147L02	3L	13938010	13959010	located_end	13938010
		estimated_end	13959010		
CH322-147L05	2R	14524513	14545513	located_end	14524513
		estimated_end	14545513		
CH322-147M05	X	19926378	19947378	estimated_end	19926378
		located_end	19947378		
CH322-147N07	X	17570798	17591798	estimated_end	17570798
		located_end	17591798		
CH322-147O15	2RHet	2179115	2200115	estimated_end	2179115
		located_end	2200115		
CH322-147O22	2L	5643146	5664146	estimated_end	5643146
		located_end	5664146		

CH322-148A01	2L	6525468	6546468	located_end	6525468
		estimated_end	6546468		
CH322-148A02	2R	17350746	17371746	located_end	17350746
		estimated_end	17371746		
CH322-148A03	X	3710455	3731455	located_end	3710455
		estimated_end	3731455		
CH322-148A04	2R	5236865	5257865	estimated_end	5236865
		located_end	5257865		
CH322-148A05	2L	5833200	5854200	estimated_end	5833200
		located_end	5854200		
CH322-148A06	2R	14032451	14053451	estimated_end	14032451
		located_end	14053451		
CH322-148A08	3L	12008150	12029150	estimated_end	12008150
		located_end	12029150		
CH322-148A10	2L	21187027	21208027	estimated_end	21187027
		located_end	21208027		
CH322-148A12	3R	2893778	2914778	located_end	2893778
		estimated_end	2914778		
CH322-148A14	2R	10197400	10218400	located_end	10197400
		estimated_end	10218400		
CH322-148A15	3R	17710667	17731667	estimated_end	17710667
		located_end	17731667		
CH322-148A16	3R	25342060	25363060	estimated_end	25342060
		located_end	25363060		
CH322-148A18	2L	2995061	3016061	located_end	2995061
		estimated_end	3016061		
CH322-148A20	2R	6317853	6338853	estimated_end	6317853
		located_end	6338853		
CH322-148A21	2L	19008669	19029669	located_end	19008669
		estimated_end	19029669		
CH322-148A23	X	8259503	8280503	located_end	8259503
		estimated_end	8280503		
CH322-148A24	2R	11484316	11505316	estimated_end	11484316
		located_end	11505316		
CH322-148B01	3L	5153492	5174492	located_end	5153492
		estimated_end	5174492		
CH322-148B03	2L	6514841	6535841	estimated_end	6514841
		located_end	6535841		
CH322-148B04	3R	21187353	21208353	estimated_end	21187353
		located_end	21208353		
CH322-148B05	2R	19452629	19473629	estimated_end	19452629
		located_end	19473629		
CH322-148B07	ArmU	3403117	3424117	located_end	3403117
		estimated_end	3424117		
CH322-148B13	2R	17286806	17307806	located_end	17286806
		estimated_end	17307806		
CH322-148B14	2R	11849447	11870447	estimated_end	11849447
		located_end	11870447		
CH322-148B15	ArmU	601006	622006	estimated_end	601006
		located_end	622006		
CH322-148B16	3R	20139176	20160176	located_end	20139176
		estimated_end	20160176		
CH322-148B17	2L	2995061	3016061	located_end	2995061
		estimated_end	3016061		

CH322-148B18	3R	21592859	21613859	estimated_end	21592859
		located_end	21613859		
CH322-148B19	2L	19185555	19206555	located_end	19185555
		estimated_end	19206555		
CH322-148B21	X	16749442	16770442	estimated_end	16749442
		located_end	16770442		
CH322-148B22	ArmU	963668	984668	estimated_end	963668
		located_end	984668		
CH322-148B23	2R	11076404	11097404	located_end	11076404
		estimated_end	11097404		
CH322-148C01	4	359242	380242	estimated_end	359242
		located_end	380242		
CH322-148C02	3R	18466735	18487735	estimated_end	18466735
		located_end	18487735		
CH322-148C08	2R	6849432	6870432	estimated_end	6849432
		located_end	6870432		
CH322-148C09	X	19587194	19608194	estimated_end	19587194
		located_end	19608194		
CH322-148C14	3L	4386636	4407636	located_end	4386636
		estimated_end	4407636		
CH322-148C15	3L	10789693	10810693	estimated_end	10789693
		located_end	10810693		
CH322-148C16	3L	299901	320901	located_end	299901
		estimated_end	320901		
CH322-148C17	2R	10698555	10719555	estimated_end	10698555
		located_end	10719555		
CH322-148C18	2L	16537446	16558446	estimated_end	16537446
		located_end	16558446		
CH322-148C19	2L	16854240	16875240	estimated_end	16854240
		located_end	16875240		
CH322-148C22	3L	11018399	11039399	estimated_end	11018399
		located_end	11039399		
CH322-148C23	3L	7904402	7925402	located_end	7904402
		estimated_end	7925402		
CH322-148D01	2R	2895217	2916217	estimated_end	2895217
		located_end	2916217		
CH322-148D02	2R	3348244	3369244	estimated_end	3348244
		located_end	3369244		
CH322-148D07	X	5869896	5890896	located_end	5869896
		estimated_end	5890896		
CH322-148D08	X	3950316	3971316	located_end	3950316
		estimated_end	3971316		
CH322-148D09	2R	12250278	12271278	located_end	12250278
		estimated_end	12271278		
CH322-148D10	3L	9636688	9657688	located_end	9636688
		estimated_end	9657688		
CH322-148D11	2L	20921223	20942223	estimated_end	20921223
		located_end	20942223		
CH322-148D13	2R	11187015	11208015	located_end	11187015
		estimated_end	11208015		
CH322-148D14	3L	2020865	2041865	estimated_end	2020865
		located_end	2041865		
CH322-148D15	3R	12992337	13013337	estimated_end	12992337
		located_end	13013337		

CH322-148D17	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-148D19	X	15589740	15610740	located_end	15589740
		estimated_end	15610740		
CH322-148D21	X	5945206	5966206	located_end	5945206
		estimated_end	5966206		
CH322-148D22	X	21940520	21961520	located_end	21940520
		estimated_end	21961520		
CH322-148D23	3R	7369036	7390036	estimated_end	7369036
		located_end	7390036		
CH322-148D24	3L	19485743	19506743	located_end	19485743
		estimated_end	19506743		
CH322-148E01	3R	13186446	13207446	located_end	13186446
		estimated_end	13207446		
CH322-148E08	X	17140749	17161749	located_end	17140749
		estimated_end	17161749		
CH322-148E09	2L	8525225	8546225	located_end	8525225
		estimated_end	8546225		
CH322-148E11	2L	3673953	3694953	estimated_end	3673953
		located_end	3694953		
CH322-148E19	ArmU	8311824	8332824	estimated_end	8311824
		located_end	8332824		
CH322-148E21	X	8100661	8121661	located_end	8100661
		estimated_end	8121661		
CH322-148E22	3L	34461 55461	located_end 34461	estimated_end	55461
CH322-148E23	3L	8128476	8149476	estimated_end	8128476
		located_end	8149476		
CH322-148E24	3L	8321201	8342201	estimated_end	8321201
		located_end	8342201		
CH322-148F01	3R	27220722	27241722	located_end	27220722
		estimated_end	27241722		
CH322-148F05	X	14869241	14890241	estimated_end	14869241
		located_end	14890241		
CH322-148F09	X	18050926	18071926	located_end	18050926
		estimated_end	18071926		
CH322-148F15	3L	13547983	13568983	located_end	13547983
		estimated_end	13568983		
CH322-148F22	3R	6726804	6747804	estimated_end	6726804
		located_end	6747804		
CH322-148F24	X	17224283	17245283	located_end	17224283
		estimated_end	17245283		
CH322-148G01	2R	11369222	11390222	estimated_end	11369222
		located_end	11390222		
CH322-148G15	ArmU	5547278	5568278	located_end	5547278
		estimated_end	5568278		
CH322-148G18	3L	7014358	7035358	located_end	7014358
		estimated_end	7035358		
CH322-148G20	3R	24043190	24064190	located_end	24043190
		estimated_end	24064190		
CH322-148H01	2L	20517580	20538580	located_end	20517580
		estimated_end	20538580		
CH322-148H14	2R	8466242	8487242	estimated_end	8466242
		located_end	8487242		

CH322-148H18	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-148H19	3R	12154590	12175590	located_end	12154590
		estimated_end	12175590		
CH322-148H20	X	1225767	1246767	located_end	1225767
		estimated_end	1246767		
CH322-148H21	2L	13320758	13341758	estimated_end	13320758
		located_end	13341758		
CH322-148H23	2R	17535769	17556769	estimated_end	17535769
		located_end	17556769		
CH322-148H24	3R	1340109	1361109	estimated_end	1340109
		located_end	1361109		
CH322-148I01	2L	21842693	21863693	estimated_end	21842693
		located_end	21863693		
CH322-148I09	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-148I14	3R	18137991	18158991	estimated_end	18137991
		located_end	18158991		
CH322-148I20	3L	17691606	17712606	estimated_end	17691606
		located_end	17712606		
CH322-148I22	3L	19642266	19663266	estimated_end	19642266
		located_end	19663266		
CH322-148J20	2R	16459875	16480875	located_end	16459875
		estimated_end	16480875		
CH322-148J21	2L	13098265	13119265	located_end	13098265
		estimated_end	13119265		
CH322-148J23	X	3094598	3115598	located_end	3094598
		estimated_end	3115598		
CH322-148K01	2R	19136488	19157488	located_end	19136488
		estimated_end	19157488		
CH322-148K02	3R	24496790	24517790	located_end	24496790
		estimated_end	24517790		
CH322-148K09	4	1162699	1183699	estimated_end	1162699
		located_end	1183699		
CH322-148K16	3R	6338752	6359752	estimated_end	6338752
		located_end	6359752		
CH322-148K22	X	11987571	12008571	located_end	11987571
		estimated_end	12008571		
CH322-148K23	2L	18877692	18898692	estimated_end	18877692
		located_end	18898692		
CH322-148K24	X	19914766	19935766	located_end	19914766
		estimated_end	19935766		
CH322-148L01	2L	9203173	9224173	estimated_end	9203173
		located_end	9224173		
CH322-148L02	2L	16632363	16653363	estimated_end	16632363
		located_end	16653363		
CH322-148L09	3LHet	967186	988186	estimated_end	967186
		located_end	988186		
CH322-148L11	X	9696658	9717658	estimated_end	9696658
		located_end	9717658		
CH322-148L19	3L	19697401	19718401	located_end	19697401
		estimated_end	19718401		
CH322-148L21	4	374674	395674	estimated_end	374674
		located_end	395674		

CH322-148L22	3R	15221157	15242157	located_end	15221157
		estimated_end	15242157		
CH322-148L23	2R	19376432	19397432	estimated_end	19376432
		located_end	19397432		
CH322-148L24	X	19486819	19507819	estimated_end	19486819
		located_end	19507819		
CH322-148M01	2R	9369542	9390542	located_end	9369542
		estimated_end	9390542		
CH322-148M02	2R	9369542	9390542	located_end	9369542
		estimated_end	9390542		
CH322-148M05	2L	2385574	2406574	located_end	2385574
		estimated_end	2406574		
CH322-148M16	3R	7679149	7700149	estimated_end	7679149
		located_end	7700149		
CH322-148M17	2R	13419365	13440365	located_end	13419365
		estimated_end	13440365		
CH322-148M18	2L	14081980	14102980	located_end	14081980
		estimated_end	14102980		
CH322-148M19	3R	22643914	22664914	estimated_end	22643914
		located_end	22664914		
CH322-148M20	X	15401428	15422428	located_end	15401428
		estimated_end	15422428		
CH322-148M22	3L	9225692	9246692	located_end	9225692
		estimated_end	9246692		
CH322-148M23	X	10071889	10092889	estimated_end	10071889
		located_end	10092889		
CH322-148M24	3R	23794691	23815691	located_end	23794691
		estimated_end	23815691		
CH322-148N01	3L	21515691	21536691	located_end	21515691
		estimated_end	21536691		
CH322-148N02	X	10096171	10117171	located_end	10096171
		estimated_end	10117171		
CH322-148N04	3R	3807238	3828238	located_end	3807238
		estimated_end	3828238		
CH322-148N05	2R	17137073	17158073	located_end	17137073
		estimated_end	17158073		
CH322-148N07	3R	9423643	9444643	located_end	9423643
		estimated_end	9444643		
CH322-148N15	2R	16608981	16629981	located_end	16608981
		estimated_end	16629981		
CH322-148N20	2R	8013884	8034884	estimated_end	8013884
		located_end	8034884		
CH322-148N23	3R	23260172	23281172	estimated_end	23260172
		located_end	23281172		
CH322-148N24	3R	18292391	18313391	estimated_end	18292391
		located_end	18313391		
CH322-148O01	3L	7156621	7177621	estimated_end	7156621
		located_end	7177621		
CH322-148O02	3R	21130095	21151095	located_end	21130095
		estimated_end	21151095		
CH322-148O06	2R	8144907	8165907	estimated_end	8144907
		located_end	8165907		
CH322-148O09	2L	18784605	18805605	estimated_end	18784605
		located_end	18805605		

CH322-148010	3R	4324295	4345295	located_end	4324295
		estimated_end	4345295		
CH322-148011	3R	6239832	6260832	located_end	6239832
		estimated_end	6260832		
CH322-148012	3R	27642534	27663534	located_end	27642534
		estimated_end	27663534		
CH322-148016	2R	12142785	12163785	located_end	12142785
		estimated_end	12163785		
CH322-148018	3L	17512765	17533765	estimated_end	17512765
		located_end	17533765		
CH322-148019	3R	18253289	18274289	located_end	18253289
		estimated_end	18274289		
CH322-148021	2L	17103930	17124930	estimated_end	17103930
		located_end	17124930		
CH322-148P01	3L	21128752	21149752	located_end	21128752
		estimated_end	21149752		
CH322-148P02	X	18403820	18424820	located_end	18403820
		estimated_end	18424820		
CH322-148P04	2R	7692586	7713586	located_end	7692586
		estimated_end	7713586		
CH322-148P05	X	13974107	13995107	estimated_end	13974107
		located_end	13995107		
CH322-148P06	2R	1857179	1878179	located_end	1857179
		estimated_end	1878179		
CH322-148P07	3LHet	2405853	2426853	estimated_end	2405853
		located_end	2426853		
CH322-148P08	3L	9886552	9907552	estimated_end	9886552
		located_end	9907552		
CH322-148P09	2R	15293285	15314285	estimated_end	15293285
		located_end	15314285		
CH322-148P10	3L	2891109	2912109	located_end	2891109
		estimated_end	2912109		
CH322-148P11	3L	16126184	16147184	located_end	16126184
		estimated_end	16147184		
CH322-148P12	2L	22143685	22164685	estimated_end	22143685
		located_end	22164685		
CH322-148P13	2L	12575694	12596694	located_end	12575694
		estimated_end	12596694		
CH322-148P16	2L	16023334	16044334	estimated_end	16023334
		located_end	16044334		
CH322-148P17	3R	26816533	26837533	estimated_end	26816533
		located_end	26837533		
CH322-148P19	2R	9910620	9931620	located_end	9910620
		estimated_end	9931620		
CH322-148P22	3R	23899299	23920299	estimated_end	23899299
		located_end	23920299		
CH322-149A21	2L	2267938	2288938	located_end	2267938
		estimated_end	2288938		
CH322-149A23	X	10841612	10862612	located_end	10841612
		estimated_end	10862612		
CH322-149B10	X	14005924	14026924	estimated_end	14005924
		located_end	14026924		
CH322-149B12	3L	14243571	14264571	located_end	14243571
		estimated_end	14264571		

CH322-149B13	2R	7622275	7643275	estimated_end	7622275
		located_end	7643275		
CH322-149B20	2L	18674846	18695846	located_end	18674846
		estimated_end	18695846		
CH322-149C03	ArmU	7468552	7489552	located_end	7468552
		estimated_end	7489552		
CH322-149C07	3L	20262012	20283012	estimated_end	20262012
		located_end	20283012		
CH322-149C15	3L	11465170	11486170	estimated_end	11465170
		located_end	11486170		
CH322-149C18	3R	7175878	7196878	estimated_end	7175878
		located_end	7196878		
CH322-149C24	2R	12787979	12808979	estimated_end	12787979
		located_end	12808979		
CH322-149D01	ArmU	6867024	6888024	located_end	6867024
		estimated_end	6888024		
CH322-149D16	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-149E13	3RHet	511375	532375	estimated_end	511375
		located_end	532375		
CH322-149F24	2R	13856222	13877222	estimated_end	13856222
		located_end	13877222		
CH322-149G23	3R	9408040	9429040	located_end	9408040
		estimated_end	9429040		
CH322-149H02	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-149I05	2R	17100255	17121255	located_end	17100255
		estimated_end	17121255		
CH322-149J09	3L	17083672	17104672	estimated_end	17083672
		located_end	17104672		
CH322-149J15	X	123107	144107	estimated_end	123107
		located_end	144107		
CH322-149J20	2RHet	1060387	1081387	estimated_end	1060387
		located_end	1081387		
CH322-149J21	2L	9004689	9025689	estimated_end	9004689
		located_end	9025689		
CH322-149J23	2R	16072426	16093426	located_end	16072426
		estimated_end	16093426		
CH322-149L17	2RHet	2331811	2352811	estimated_end	2331811
		located_end	2352811		
CH322-149M11	3R	6206342	6227342	estimated_end	6206342
		located_end	6227342		
CH322-149O08	ArmU	9603611	9624611	estimated_end	9603611
		located_end	9624611		
CH322-149O20	2R	3460109	3481109	located_end	3460109
		estimated_end	3481109		
CH322-149O23	3L	22609946	22630946	estimated_end	22609946
		located_end	22630946		
CH322-149O24	3L	22610043	22631043	estimated_end	22610043
		located_end	22631043		
CH322-149P05	3L	13569477	13590477	estimated_end	13569477
		located_end	13590477		
CH322-149P06	2R	4426395	4447395	estimated_end	4426395
		located_end	4447395		

CH322-14A05 2R	366665	387665	located_end	366665
	estimated_end	387665		
CH322-14A06 2R	6187318	6208318	located_end	6187318
	estimated_end	6208318		
CH322-14A08 2R	19435371	19456371	estimated_end	19435371
	located_end	19456371		
CH322-14A14 3R	14085180	14106180	estimated_end	14085180
	located_end	14106180		
CH322-14A18 3L	19521320	19542320	estimated_end	19521320
	located_end	19542320		
CH322-14B01 2L	5980968	6001968	estimated_end	5980968
	located_end	6001968		
CH322-14B02 3L	12209576	12230576	located_end	12209576
	estimated_end	12230576		
CH322-14B03 2R	11422146	11443146	estimated_end	11422146
	located_end	11443146		
CH322-14B13 3L	658092	679092	estimated_end	658092
	located_end	679092		
CH322-14B15 2R	8618849	8639849	located_end	8618849
	estimated_end	8639849		
CH322-14B20 2R	6552944	6573944	estimated_end	6552944
	located_end	6573944		
CH322-14B22 2L	2806109	2827109	located_end	2806109
	estimated_end	2827109		
CH322-14C03 3L	16342609	16363609	estimated_end	16342609
	located_end	16363609		
CH322-14C05 2R	2567953	2588953	located_end	2567953
	estimated_end	2588953		
CH322-14C10 3R	14265962	14286962	located_end	14265962
	estimated_end	14286962		
CH322-14C12 2R	15437595	15458595	estimated_end	15437595
	located_end	15458595		
CH322-14C14 2RHet	437403	458403	located_end	437403
	estimated_end	458403		
CH322-14C15 2RHet	2081498	2102498	located_end	2081498
	estimated_end	2102498		
CH322-14C20 3L	17626407	17647407	located_end	17626407
	estimated_end	17647407		
CH322-14C22 3R	3377604	3398604	located_end	3377604
	estimated_end	3398604		
CH322-14D02 2L	8414279	8435279	estimated_end	8414279
	located_end	8435279		
CH322-14D11 2RHet	2876733	2897733	estimated_end	2876733
	located_end	2897733		
CH322-14D18 3R	5324335	5345335	located_end	5324335
	estimated_end	5345335		
CH322-14D19 X	13655817	13676817	estimated_end	13655817
	located_end	13676817		
CH322-14D21 X	21316350	21337350	estimated_end	21316350
	located_end	21337350		
CH322-14D23 2L	3515688	3536688	estimated_end	3515688
	located_end	3536688		
CH322-14D24 2L	6736372	6757372	located_end	6736372
	estimated_end	6757372		

CH322-14E05 2R	20241828	20262828	estimated_end	20241828
	located_end	20262828		
CH322-14E14 ArmU	2414548	2435548	estimated_end	2414548
	located_end	2435548		
CH322-14E19 2L	14314440	14335440	estimated_end	14314440
	located_end	14335440		
CH322-14F09 2R	5598016	5619016	located_end	5598016
	estimated_end	5619016		
CH322-14F12 2R	14568125	14589125	located_end	14568125
	estimated_end	14589125		
CH322-14F19 3R	4041809	4062809	estimated_end	4041809
	located_end	4062809		
CH322-14F20 3LHet	1385789	1406789	located_end	1385789
	estimated_end	1406789		
CH322-14F21 2L	2770562	2791562	located_end	2770562
	estimated_end	2791562		
CH322-14F22 2R	5554880	5575880	located_end	5554880
	estimated_end	5575880		
CH322-14G01 2R	5478045	5499045	located_end	5478045
	estimated_end	5499045		
CH322-14G03 4	43683	64683	estimated_end	43683
	located_end	64683		
CH322-14G13 2L	21580417	21601417	located_end	21580417
	estimated_end	21601417		
CH322-14G17 2R	8897591	8918591	located_end	8897591
	estimated_end	8918591		
CH322-14G18 2R	19178494	19199494	estimated_end	19178494
	located_end	19199494		
CH322-14H01 2R	6885112	6906112	located_end	6885112
	estimated_end	6906112		
CH322-14H02 2R	11263058	11284058	located_end	11263058
	estimated_end	11284058		
CH322-14H04 3R	20427570	20448570	located_end	20427570
	estimated_end	20448570		
CH322-14H07 X	20513137	20534137	estimated_end	20513137
	located_end	20534137		
CH322-14H20 3R	9167067	9188067	estimated_end	9167067
	located_end	9188067		
CH322-14H21 2L	961520	982520	located_end	961520
	estimated_end	982520		
CH322-14H22 2R	10466764	10487764	estimated_end	10466764
	located_end	10487764		
CH322-14I03 3R	17670901	17691901	estimated_end	17670901
	located_end	17691901		
CH322-14I04 X	10196666	10217666	located_end	10196666
	estimated_end	10217666		
CH322-14I05 3R	22527710	22548710	located_end	22527710
	estimated_end	22548710		
CH322-14I07 X	16653555	16674555	estimated_end	16653555
	located_end	16674555		
CH322-14I11 2RHet	1913730	1934730	estimated_end	1913730
	located_end	1934730		
CH322-14I17 ArmU	8268805	8289805	estimated_end	8268805
	located_end	8289805		

CH322-14I20 X	14781975	14802975	estimated_end	14781975
	located_end	14802975		
CH322-14I23 2L	16814924	16835924	located_end	16814924
	estimated_end	16835924		
CH322-14I24 2R	9529975	9550975	estimated_end	9529975
	located_end	9550975		
CH322-14J05 2R	12165006	12186006	located_end	12165006
	estimated_end	12186006		
CH322-14J07 3LHet	572214	593214	estimated_end	572214
	located_end	593214		
CH322-14J09 ArmU	8928851	8949851	estimated_end	8928851
	located_end	8949851		
CH322-14J12 3R	6622757	6643757	located_end	6622757
	estimated_end	6643757		
CH322-14J14 3R	14845413	14866413	located_end	14845413
	estimated_end	14866413		
CH322-14J16 2R	487039	508039	estimated_end	487039
	located_end	508039		
CH322-14J19 X	1962835	1983835	located_end	1962835
	estimated_end	1983835		
CH322-14J22 2L	4533399	4554399	estimated_end	4533399
	located_end	4554399		
CH322-14K01 3L	21273207	21294207	located_end	21273207
	estimated_end	21294207		
CH322-14K07 2L	7035722	7056722	located_end	7035722
	estimated_end	7056722		
CH322-14K08 2R	17688261	17709261	located_end	17688261
	estimated_end	17709261		
CH322-14K09 X	4276148	4297148	estimated_end	4276148
	located_end	4297148		
CH322-14K11 2L	3548849	3569849	located_end	3548849
	estimated_end	3569849		
CH322-14K13 X	14345461	14366461	located_end	14345461
	estimated_end	14366461		
CH322-14K15 X	2245841	2266841	estimated_end	2245841
	located_end	2266841		
CH322-14K18 3L	998666	1019666	located_end	998666
	estimated_end	1019666		
CH322-14K23 3L	9014281	9035281	estimated_end	9014281
	located_end	9035281		
CH322-14L01 3L	20127607	20148607	located_end	20127607
	estimated_end	20148607		
CH322-14L02 ArmU	8373864	8394864	estimated_end	8373864
	located_end	8394864		
CH322-14L04 2R	20221186	20242186	located_end	20221186
	estimated_end	20242186		
CH322-14L06 2L	9501974	9522974	estimated_end	9501974
	located_end	9522974		
CH322-14L12 X	19506894	19527894	estimated_end	19506894
	located_end	19527894		
CH322-14L19 2R	12571452	12592452	located_end	12571452
	estimated_end	12592452		
CH322-14L21 3R	6820619	6841619	located_end	6820619
	estimated_end	6841619		

CH322-14L24 3L	471986	492986	located_end	471986
	estimated_end	492986		
CH322-14M07 3R	15687804	15708804	estimated_end	15687804
	located_end	15708804		
CH322-14M08 3L	23295416	23316416	estimated_end	23295416
	located_end	23316416		
CH322-14M09 3L	23978754	23999754	estimated_end	23978754
	located_end	23999754		
CH322-14M13 3R	16750838	16771838	estimated_end	16750838
	located_end	16771838		
CH322-14M15 ArmU	8050598	8071598	located_end	8050598
	estimated_end	8071598		
CH322-14M21 3L	24046915	24067915	estimated_end	24046915
	located_end	24067915		
CH322-14M23 3L	440395	461395	estimated_end	440395
	located_end	461395		
CH322-14N09 3L	1850102	1871102	located_end	1850102
	estimated_end	1871102		
CH322-14N12 3L	1498713	1519713	estimated_end	1498713
	located_end	1519713		
CH322-14N22 3L	8107168	8128168	estimated_end	8107168
	located_end	8128168		
CH322-14N23 3L	3870323	3891323	estimated_end	3870323
	located_end	3891323		
CH322-14O04 3R	21937546	21958546	estimated_end	21937546
	located_end	21958546		
CH322-14O05 3L	8098355	8119355	located_end	8098355
	estimated_end	8119355		
CH322-14O06 2L	10856186	10877186	located_end	10856186
	estimated_end	10877186		
CH322-14O11 3L	16943200	16964200	estimated_end	16943200
	located_end	16964200		
CH322-14O14 2R	17222603	17243603	estimated_end	17222603
	located_end	17243603		
CH322-14O20 2L	8847493	8868493	estimated_end	8847493
	located_end	8868493		
CH322-14O21 2L	10089324	10110324	located_end	10089324
	estimated_end	10110324		
CH322-14O23 3R	14456256	14477256	estimated_end	14456256
	located_end	14477256		
CH322-14O24 3L	8909409	8930409	located_end	8909409
	estimated_end	8930409		
CH322-14P15 2L	4447840	4468840	estimated_end	4447840
	located_end	4468840		
CH322-14P17 2R	276918	297918	estimated_end	276918
	located_end	297918		
CH322-14P18 ArmU	5680769	5701769	estimated_end	5680769
	located_end	5701769		
CH322-14P21 X	976086	997086	located_end	976086
	estimated_end	997086		
CH322-14P22 X	18454151	18475151	located_end	18454151
	estimated_end	18475151		
CH322-150A14	X	19019082	19040082	located_end 19019082
	estimated_end	19040082		

CH322-150C07	X	22281355	22302355	located_end	22281355
		estimated_end	22302355		
CH322-150C12	3L	9926529	9947529	estimated_end	9926529
		located_end	9947529		
CH322-150D12	ArmU	6027739	6048739	estimated_end	6027739
		located_end	6048739		
CH322-150E02	3R	6797031	6818031	estimated_end	6797031
		located_end	6818031		
CH322-150F06	2R	19494493	19515493	estimated_end	19494493
		located_end	19515493		
CH322-150G19	3L	14281988	14302988	located_end	14281988
		estimated_end	14302988		
CH322-150H11	3RHet	777950	798950	located_end	777950
		estimated_end	798950		
CH322-150H12	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-150H19	3R	9656357	9677357	estimated_end	9656357
		located_end	9677357		
CH322-150I08	3R	19642982	19663982	located_end	19642982
		estimated_end	19663982		
CH322-150I16	X	17579828	17600828	estimated_end	17579828
		located_end	17600828		
CH322-150J15	3R	501405	522405	located_end	501405
		estimated_end	522405		
CH322-150J20	3L	19346637	19367637	located_end	19346637
		estimated_end	19367637		
CH322-150K05	3L	2609413	2630413	located_end	2609413
		estimated_end	2630413		
CH322-150K12	2L	22195198	22216198	located_end	22195198
		estimated_end	22216198		
CH322-150K18	YHet	52510 73510	located_end 52510	estimated_end	73510
CH322-150K20	X	15136856	15157856	estimated_end	15136856
		located_end	15157856		
CH322-150L02	3R	25146001	25167001	located_end	25146001
		estimated_end	25167001		
CH322-150L08	X	16258787	16279787	located_end	16258787
		estimated_end	16279787		
CH322-150L13	2R	10705464	10726464	estimated_end	10705464
		located_end	10726464		
CH322-150L18	2L	7954075	7975075	located_end	7954075
		estimated_end	7975075		
CH322-150M04	3R	21607151	21628151	estimated_end	21607151
		located_end	21628151		
CH322-150M24	2L	5158812	5179812	located_end	5158812
		estimated_end	5179812		
CH322-150N20	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-150O06	2L	5533733	5554733	estimated_end	5533733
		located_end	5554733		
CH322-150O10	2LHet	50161 71161	located_end 50161	estimated_end	71161
CH322-150P04	3L	18024044	18045044	located_end	18024044
		estimated_end	18045044		

CH322-150P15	2LHet	229486	250486	estimated_end	229486
		located_end	250486		
CH322-150P24	X	6265999	6286999	located_end	6265999
		estimated_end	6286999		
CH322-151A13	2R	16713015	16734015	located_end	16713015
		estimated_end	16734015		
CH322-151A24	2L	9405855	9426855	located_end	9405855
		estimated_end	9426855		
CH322-151B23	3R	3506578	3527578	located_end	3506578
		estimated_end	3527578		
CH322-151C07	ArmU	135712	156712	located_end	135712
		estimated_end	156712		
CH322-151D15	2L	919433	940433	estimated_end	919433
		located_end	940433		
CH322-151E02	2R	3236889	3257889	located_end	3236889
		estimated_end	3257889		
CH322-151F01	2R	14182116	14203116	located_end	14182116
		estimated_end	14203116		
CH322-151F18	2L	6079711	6100711	estimated_end	6079711
		located_end	6100711		
CH322-151G05	2R	14920497	14941497	located_end	14920497
		estimated_end	14941497		
CH322-151G07	3R	23903902	23924902	located_end	23903902
		estimated_end	23924902		
CH322-151G20	X	18935512	18956512	located_end	18935512
		estimated_end	18956512		
CH322-151I03	X	3867373	3888373	located_end	3867373
		estimated_end	3888373		
CH322-151J03	2R	21057056	21078056	located_end	21057056
		estimated_end	21078056		
CH322-151J15	2R	3427233	3448233	located_end	3427233
		estimated_end	3448233		
CH322-151K03	X	12147216	12168216	located_end	12147216
		estimated_end	12168216		
CH322-151K12	X	7029476	7050476	estimated_end	7029476
		located_end	7050476		
CH322-151N20	ArmU	3712355	3733355	estimated_end	3712355
		located_end	3733355		
CH322-151P02	3L	16444053	16465053	estimated_end	16444053
		located_end	16465053		
CH322-151P08	3RHet	1569009	1590009	located_end	1569009
		estimated_end	1590009		
CH322-151P12	3R	23222352	23243352	estimated_end	23222352
		located_end	23243352		
CH322-151P16	X	573046	594046	estimated_end	573046
		located_end	594046		
CH322-151P23	3L	23817166	23838166	located_end	23817166
		estimated_end	23838166		
CH322-152A05	2L	1470855	1491855	located_end	1470855
		estimated_end	1491855		
CH322-152A07	X	12711626	12732626	located_end	12711626
		estimated_end	12732626		
CH322-152A08	X	13654281	13675281	located_end	13654281
		estimated_end	13675281		

CH322-152A09	3R	24064324	24085324	located_end	24064324
		estimated_end	24085324		
CH322-152A11	X	20161044	20182044	located_end	20161044
		estimated_end	20182044		
CH322-152A19	ArmU	9025363	9046363	located_end	9025363
		estimated_end	9046363		
CH322-152A21	2R	19490064	19511064	located_end	19490064
		estimated_end	19511064		
CH322-152A24	ArmU	3724976	3745976	estimated_end	3724976
		located_end	3745976		
CH322-152B23	3L	14584748	14605748	located_end	14584748
		estimated_end	14605748		
CH322-152B24	2R	17202569	17223569	located_end	17202569
		estimated_end	17223569		
CH322-152C05	2R	9144183	9165183	located_end	9144183
		estimated_end	9165183		
CH322-152C07	3R	19842048	19863048	located_end	19842048
		estimated_end	19863048		
CH322-152F10	X	-14061	6939	estimated_end	-14061
		located_end	6939		
CH322-152G11	2L	12109835	12130835	estimated_end	12109835
		located_end	12130835		
CH322-152G12	2RHet	2178556	2199556	estimated_end	2178556
		located_end	2199556		
CH322-152G20	X	11792898	11813898	located_end	11792898
		estimated_end	11813898		
CH322-152G21	2L	2761291	2782291	estimated_end	2761291
		located_end	2782291		
CH322-152H01	X	3095854	3116854	located_end	3095854
		estimated_end	3116854		
CH322-152H03	2R	5872230	5893230	located_end	5872230
		estimated_end	5893230		
CH322-152H17	2L	15924189	15945189	estimated_end	15924189
		located_end	15945189		
CH322-152I03	X	1111682	1132682	estimated_end	1111682
		located_end	1132682		
CH322-152I09	ArmU	7987000	8008000	estimated_end	7987000
		located_end	8008000		
CH322-152I18	2RHet	771779	792779	estimated_end	771779
		located_end	792779		
CH322-152J20	2R	11153677	11174677	estimated_end	11153677
		located_end	11174677		
CH322-152K01	3R	26934376	26955376	located_end	26934376
		estimated_end	26955376		
CH322-152K02	2L	16410802	16431802	estimated_end	16410802
		located_end	16431802		
CH322-152K03	2RHet	2820534	2841534	located_end	2820534
		estimated_end	2841534		
CH322-152K04	2R	8659780	8680780	located_end	8659780
		estimated_end	8680780		
CH322-152K05	2L	11410955	11431955	located_end	11410955
		estimated_end	11431955		
CH322-152K12	2L	14890567	14911567	located_end	14890567
		estimated_end	14911567		

CH322-152K19	2RHet	1006650	1027650	located_end	1006650
		estimated_end	1027650		
CH322-152K20	3R	16174274	16195274	estimated_end	16174274
		located_end	16195274		
CH322-152L02	X	3909428	3930428	estimated_end	3909428
		located_end	3930428		
CH322-152L08	3R	7902824	7923824	estimated_end	7902824
		located_end	7923824		
CH322-152L12	2R	10838268	10859268	located_end	10838268
		estimated_end	10859268		
CH322-152M02	X	6938692	6959692	located_end	6938692
		estimated_end	6959692		
CH322-152M04	2L	14451192	14472192	estimated_end	14451192
		located_end	14472192		
CH322-152M16	2L	7953742	7974742	estimated_end	7953742
		located_end	7974742		
CH322-152M17	2L	15920335	15941335	located_end	15920335
		estimated_end	15941335		
CH322-152N24	X	18214623	18235623	located_end	18214623
		estimated_end	18235623		
CH322-152O01	ArmU	4892252	4913252	located_end	4892252
		estimated_end	4913252		
CH322-152O05	3R	6163554	6184554	estimated_end	6163554
		located_end	6184554		
CH322-152O07	ArmU	2608942	2629942	located_end	2608942
		estimated_end	2629942		
CH322-152O23	ArmU	8168496	8189496	estimated_end	8168496
		located_end	8189496		
CH322-152P03	2R	8401637	8422637	estimated_end	8401637
		located_end	8422637		
CH322-152P04	3R	20469642	20490642	located_end	20469642
		estimated_end	20490642		
CH322-152P05	3L	2982075	3003075	estimated_end	2982075
		located_end	3003075		
CH322-152P06	2L	22870422	22891422	estimated_end	22870422
		located_end	22891422		
CH322-152P11	3R	25470464	25491464	estimated_end	25470464
		located_end	25491464		
CH322-152P17	3L	4472885	4493885	estimated_end	4472885
		located_end	4493885		
CH322-153A01	ArmU	3403117	3424117	located_end	3403117
		estimated_end	3424117		
CH322-153A06	2L	5187128	5208128	estimated_end	5187128
		located_end	5208128		
CH322-153A13	ArmU	8428914	8449914	located_end	8428914
		estimated_end	8449914		
CH322-153A18	ArmU	3128899	3149899	estimated_end	3128899
		located_end	3149899		
CH322-153A21	3L	21839497	21860497	located_end	21839497
		estimated_end	21860497		
CH322-153B04	2L	15789033	15810033	located_end	15789033
		estimated_end	15810033		
CH322-153B24	X	9758527	9779527	located_end	9758527
		estimated_end	9779527		

CH322-153C07	2R	12395670	12416670	estimated_end	12395670
		located_end	12416670		
CH322-153C19	2RHet	2830084	2851084	located_end	2830084
		estimated_end	2851084		
CH322-153D08	X	4506726	4527726	located_end	4506726
		estimated_end	4527726		
CH322-153E12	X	129400	150400	estimated_end	129400
		located_end	150400		
CH322-153E19	2R	2206591	2227591	estimated_end	2206591
		located_end	2227591		
CH322-153E22	2R	2515350	2536350	located_end	2515350
		estimated_end	2536350		
CH322-153E23	3R	18244079	18265079	estimated_end	18244079
		located_end	18265079		
CH322-153F20	2L	10605821	10626821	estimated_end	10605821
		located_end	10626821		
CH322-153F23	2L	14856575	14877575	estimated_end	14856575
		located_end	14877575		
CH322-153G14	ArmU	5678286	5699286	estimated_end	5678286
		located_end	5699286		
CH322-153G21	ArmU	2120554	2141554	located_end	2120554
		estimated_end	2141554		
CH322-153H22	3R	21309736	21330736	located_end	21309736
		estimated_end	21330736		
CH322-153H23	X	22140219	22161219	estimated_end	22140219
		located_end	22161219		
CH322-153H24	3L	5258069	5279069	located_end	5258069
		estimated_end	5279069		
CH322-153J15	3R	8403035	8424035	estimated_end	8403035
		located_end	8424035		
CH322-153J18	3R	5120067	5141067	located_end	5120067
		estimated_end	5141067		
CH322-153K22	2L	10081871	10102871	located_end	10081871
		estimated_end	10102871		
CH322-153K23	3R	22351769	22372769	estimated_end	22351769
		located_end	22372769		
CH322-153L20	ArmU	3396571	3417571	located_end	3396571
		estimated_end	3417571		
CH322-153L22	3L	14044499	14065499	estimated_end	14044499
		located_end	14065499		
CH322-153N20	3R	3531585	3552585	estimated_end	3531585
		located_end	3552585		
CH322-153N24	3L	11302974	11323974	located_end	11302974
		estimated_end	11323974		
CH322-153O23	3R	25893482	25914482	located_end	25893482
		estimated_end	25914482		
CH322-153O24	X	3807377	3828377	located_end	3807377
		estimated_end	3828377		
CH322-153P02	ArmU	5878294	5899294	estimated_end	5878294
		located_end	5899294		
CH322-153P11	ArmU	7444974	7465974	located_end	7444974
		estimated_end	7465974		
CH322-153P20	2R	11531815	11552815	located_end	11531815
		estimated_end	11552815		

CH322-153P23	2R	20271433	20292433	estimated_end	20271433
		located_end	20292433		
CH322-153P24	2L	5295747	5316747	located_end	5295747
		estimated_end	5316747		
CH322-154A20	3R	25593422	25614422	estimated_end	25593422
		located_end	25614422		
CH322-154A23	3L	9931641	9952641	located_end	9931641
		estimated_end	9952641		
CH322-154A24	3L	495642	516642	estimated_end	495642
		located_end	516642		
CH322-154B01	3R	14232283	14253283	located_end	14232283
		estimated_end	14253283		
CH322-154B14	3R	673507	694507	located_end	673507
		estimated_end	694507		
CH322-154B18	X	19797370	19818370	located_end	19797370
		estimated_end	19818370		
CH322-154B20	2R	4132666	4153666	located_end	4132666
		estimated_end	4153666		
CH322-154B22	3L	7299203	7320203	located_end	7299203
		estimated_end	7320203		
CH322-154C07	2R	15500986	15521986	estimated_end	15500986
		located_end	15521986		
CH322-154C09	3LHet	856618	877618	estimated_end	856618
		located_end	877618		
CH322-154C12	2LHet	155939	176939	located_end	155939
		estimated_end	176939		
CH322-154C21	3RHet	1517687	1538687	estimated_end	1517687
		located_end	1538687		
CH322-154C22	2R	2944412	2965412	located_end	2944412
		estimated_end	2965412		
CH322-154C24	3L	14248448	14269448	estimated_end	14248448
		located_end	14269448		
CH322-154D04	X	17203289	17224289	estimated_end	17203289
		located_end	17224289		
CH322-154D21	X	8378965	8399965	estimated_end	8378965
		located_end	8399965		
CH322-154E02	3L	9824341	9845341	estimated_end	9824341
		located_end	9845341		
CH322-154E18	3R	14304352	14325352	estimated_end	14304352
		located_end	14325352		
CH322-154E19	2R	17184771	17205771	located_end	17184771
		estimated_end	17205771		
CH322-154F23	3R	26042313	26063313	located_end	26042313
		estimated_end	26063313		
CH322-154G12	2L	13347157	13368157	estimated_end	13347157
		located_end	13368157		
CH322-154G14	X	17942553	17963553	estimated_end	17942553
		located_end	17963553		
CH322-154G18	3L	22602898	22623898	estimated_end	22602898
		located_end	22623898		
CH322-154H08	3L	22917818	22938818	estimated_end	22917818
		located_end	22938818		
CH322-154H22	2R	6046359	6067359	located_end	6046359
		estimated_end	6067359		

CH322-154I01	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-154J08	2RHet	3181899	3202899	located_end	3181899
		estimated_end	3202899		
CH322-154J12	3LHet	1826699	1847699	located_end	1826699
		estimated_end	1847699		
CH322-154J14	X	21027929	21048929	estimated_end	21027929
		located_end	21048929		
CH322-154J19	4	597055	618055	estimated_end	597055
		located_end	618055		
CH322-154K13	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-154L24	3R	11440018	11461018	located_end	11440018
		estimated_end	11461018		
CH322-154M02	2R	2634099	2655099	estimated_end	2634099
		located_end	2655099		
CH322-154M10	2L	11695774	11716774	located_end	11695774
		estimated_end	11716774		
CH322-154O24	2L	19537430	19558430	located_end	19537430
		estimated_end	19558430		
CH322-154P01	3R	4912271	4933271	estimated_end	4912271
		located_end	4933271		
CH322-154P16	3L	14244352	14265352	located_end	14244352
		estimated_end	14265352		
CH322-154P23	3R	3420654	3441654	estimated_end	3420654
		located_end	3441654		
CH322-154P24	2R	7006808	7027808	located_end	7006808
		estimated_end	7027808		
CH322-155B12	X	22001950	22022950	located_end	22001950
		estimated_end	22022950		
CH322-155B20	3R	21642065	21663065	located_end	21642065
		estimated_end	21663065		
CH322-155D09	2L	10579770	10600770	located_end	10579770
		estimated_end	10600770		
CH322-155D11	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-155E24	X	7813818	7834818	estimated_end	7813818
		located_end	7834818		
CH322-155H09	2R	17471626	17492626	located_end	17471626
		estimated_end	17492626		
CH322-155I19	2L	1291347	1312347	located_end	1291347
		estimated_end	1312347		
CH322-155K08	ArmU	7039325	7060325	estimated_end	7039325
		located_end	7060325		
CH322-155L12	ArmU	6186337	6207337	located_end	6186337
		estimated_end	6207337		
CH322-155L20	2L	12610989	12631989	located_end	12610989
		estimated_end	12631989		
CH322-155M01	2L	5075351	5096351	located_end	5075351
		estimated_end	5096351		
CH322-155M16	X	2338957	2359957	located_end	2338957
		estimated_end	2359957		
CH322-155N11	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		

CH322-155021	3L	5321233	5342233	estimated_end	5321233
		located_end	5342233		
CH322-155022	X	14275142	14296142	located_end	14275142
		estimated_end	14296142		
CH322-155024	X	1772929	1793929	estimated_end	1772929
		located_end	1793929		
CH322-155P05	3R	17186018	17207018	estimated_end	17186018
		located_end	17207018		
CH322-155P12	2L	20672869	20693869	located_end	20672869
		estimated_end	20693869		
CH322-155P21	3R	23693523	23714523	estimated_end	23693523
		located_end	23714523		
CH322-155P22	3LHet	872789	893789	located_end	872789
		estimated_end	893789		
CH322-155P24	3L	15354202	15375202	estimated_end	15354202
		located_end	15375202		
CH322-156A02	X	10764291	10785291	located_end	10764291
		estimated_end	10785291		
CH322-156A09	3R	14214896	14235896	located_end	14214896
		estimated_end	14235896		
CH322-156A12	3R	18213353	18234353	estimated_end	18213353
		located_end	18234353		
CH322-156A14	3R	6789660	6810660	estimated_end	6789660
		located_end	6810660		
CH322-156A16	2L	2964104	2985104	estimated_end	2964104
		located_end	2985104		
CH322-156A17	2L	4526179	4547179	estimated_end	4526179
		located_end	4547179		
CH322-156A18	3R	16402493	16423493	located_end	16402493
		estimated_end	16423493		
CH322-156A19	ArmU	7776403	7797403	located_end	7776403
		estimated_end	7797403		
CH322-156A20	3R	8719655	8740655	estimated_end	8719655
		located_end	8740655		
CH322-156A21	3L	23042232	23063232	estimated_end	23042232
		located_end	23063232		
CH322-156A23	3R	2985961	3006961	estimated_end	2985961
		located_end	3006961		
CH322-156B01	X	13323041	13344041	estimated_end	13323041
		located_end	13344041		
CH322-156B03	2L	8492859	8513859	estimated_end	8492859
		located_end	8513859		
CH322-156B11	3R	10650514	10671514	estimated_end	10650514
		located_end	10671514		
CH322-156B14	2R	20719662	20740662	estimated_end	20719662
		located_end	20740662		
CH322-156B18	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-156B19	2L	9141786	9162786	estimated_end	9141786
		located_end	9162786		
CH322-156B22	X	17344305	17365305	located_end	17344305
		estimated_end	17365305		
CH322-156B23	2L	17560956	17581956	estimated_end	17560956
		located_end	17581956		

CH322-156B24	3R	16313318	16334318	located_end	16313318
estimated_end		16334318			
CH322-156C03	3L	7136129	7157129	estimated_end	7136129
located_end		7157129			
CH322-156C05	2R	12199712	12220712	located_end	12199712
estimated_end		12220712			
CH322-156C07	3R	11248432	11269432	estimated_end	11248432
located_end		11269432			
CH322-156C17	3R	22081599	22102599	estimated_end	22081599
located_end		22102599			
CH322-156C19	3R	12115006	12136006	located_end	12115006
estimated_end		12136006			
CH322-156C20	3R	476791	497791	located_end	476791
estimated_end		497791			
CH322-156C21	3R	13249958	13270958	located_end	13249958
estimated_end		13270958			
CH322-156C22	2L	4681330	4702330	located_end	4681330
estimated_end		4702330			
CH322-156C24	2L	9043635	9064635	estimated_end	9043635
located_end		9064635			
CH322-156D17	3R	26961230	26982230	estimated_end	26961230
located_end		26982230			
CH322-156D18	X	783038	804038	located_end	783038
estimated_end		804038			
CH322-156D19	2L	6104674	6125674	estimated_end	6104674
located_end		6125674			
CH322-156D22	X	14063204	14084204	estimated_end	14063204
located_end		14084204			
CH322-156D23	X	9325396	9346396	estimated_end	9325396
located_end		9346396			
CH322-156D24	2L	7897100	7918100	located_end	7897100
estimated_end		7918100			
CH322-156E07	3LHet	-625 20375	estimated_end	-625	located_end
20375					
CH322-156E13	2R	15297918	15318918	estimated_end	15297918
located_end		15318918			
CH322-156E18	X	7856907	7877907	located_end	7856907
estimated_end		7877907			
CH322-156E20	3L	13872263	13893263	estimated_end	13872263
located_end		13893263			
CH322-156E21	2L	10753547	10774547	estimated_end	10753547
located_end		10774547			
CH322-156E22	3R	21725342	21746342	estimated_end	21725342
located_end		21746342			
CH322-156F16	2R	5155847	5176847	estimated_end	5155847
located_end		5176847			
CH322-156F23	2L	1092160	1113160	located_end	1092160
estimated_end		1113160			
CH322-156F24	3R	6940760	6961760	located_end	6940760
estimated_end		6961760			
CH322-156G10	3R	24168677	24189677	located_end	24168677
estimated_end		24189677			
CH322-156G16	3R	16430897	16451897	located_end	16430897
estimated_end		16451897			

CH322-156G18	2L	19169773	19190773	estimated_end	19169773
		located_end	19190773		
CH322-156H01	2L	12635125	12656125	estimated_end	12635125
		located_end	12656125		
CH322-156H09	ArmU	9004935	9025935	estimated_end	9004935
		located_end	9025935		
CH322-156H23	2L	18020236	18041236	estimated_end	18020236
		located_end	18041236		
CH322-156H24	3LHet	934105	955105	located_end	934105
		estimated_end	955105		
CH322-156I01	3R	1972293	1993293	located_end	1972293
		estimated_end	1993293		
CH322-156I05	3L	11385107	11406107	estimated_end	11385107
		located_end	11406107		
CH322-156I19	3LHet	1832181	1853181	located_end	1832181
		estimated_end	1853181		
CH322-156I22	2L	17302635	17323635	estimated_end	17302635
		located_end	17323635		
CH322-156J17	3R	7624661	7645661	estimated_end	7624661
		located_end	7645661		
CH322-156J22	3L	12240374	12261374	estimated_end	12240374
		located_end	12261374		
CH322-156J24	2R	6750328	6771328	estimated_end	6750328
		located_end	6771328		
CH322-156K12	3L	14897776	14918776	located_end	14897776
		estimated_end	14918776		
CH322-156K21	X	7638561	7659561	estimated_end	7638561
		located_end	7659561		
CH322-156K22	2L	10371847	10392847	located_end	10371847
		estimated_end	10392847		
CH322-156K23	3R	25638237	25659237	located_end	25638237
		estimated_end	25659237		
CH322-156K24	X	9815047	9836047	located_end	9815047
		estimated_end	9836047		
CH322-156L02	X	18208210	18229210	estimated_end	18208210
		located_end	18229210		
CH322-156L21	X	10708238	10729238	located_end	10708238
		estimated_end	10729238		
CH322-156L22	3L	11584346	11605346	located_end	11584346
		estimated_end	11605346		
CH322-156L23	3R	6652979	6673979	estimated_end	6652979
		located_end	6673979		
CH322-156M01	3L	21864415	21885415	located_end	21864415
		estimated_end	21885415		
CH322-156M14	3RHet	2327256	2348256	estimated_end	2327256
		located_end	2348256		
CH322-156M23	3L	4512580	4533580	located_end	4512580
		estimated_end	4533580		
CH322-156M24	3R	13597488	13618488	estimated_end	13597488
		located_end	13618488		
CH322-156N01	2R	5154691	5175691	estimated_end	5154691
		located_end	5175691		
CH322-156N02	3L	558150	579150	estimated_end	558150
		located_end	579150		

CH322-156N11	3L	17513678	17534678	estimated_end	17513678
		located_end	17534678		
CH322-156N23	2L	15767697	15788697	located_end	15767697
		estimated_end	15788697		
CH322-156N24	X	488321	509321	located_end	488321
		estimated_end	509321		
CH322-156O01	2R	5900850	5921850	estimated_end	5900850
		located_end	5921850		
CH322-156O05	3L	17841396	17862396	located_end	17841396
		estimated_end	17862396		
CH322-156O09	3L	9095521	9116521	located_end	9095521
		estimated_end	9116521		
CH322-156O12	3R	14776437	14797437	located_end	14776437
		estimated_end	14797437		
CH322-156O13	3R	18833822	18854822	located_end	18833822
		estimated_end	18854822		
CH322-156O14	ArmU	9073061	9094061	located_end	9073061
		estimated_end	9094061		
CH322-156O15	3R	6921234	6942234	estimated_end	6921234
		located_end	6942234		
CH322-156O16	2L	13087640	13108640	located_end	13087640
		estimated_end	13108640		
CH322-156O19	2L	18157244	18178244	located_end	18157244
		estimated_end	18178244		
CH322-156O21	3L	9301889	9322889	estimated_end	9301889
		located_end	9322889		
CH322-156O23	X	12457825	12478825	estimated_end	12457825
		located_end	12478825		
CH322-156O24	X	21785257	21806257	estimated_end	21785257
		located_end	21806257		
CH322-156P01	3L	197694	218694	located_end	197694
		estimated_end	218694		
CH322-156P02	3R	13797725	13818725	estimated_end	13797725
		located_end	13818725		
CH322-156P03	3L	13880970	13901970	estimated_end	13880970
		located_end	13901970		
CH322-156P04	2R	17983689	18004689	located_end	17983689
		estimated_end	18004689		
CH322-156P05	2RHet	179684	200684	estimated_end	179684
		located_end	200684		
CH322-156P06	2L	17910461	17931461	estimated_end	17910461
		located_end	17931461		
CH322-156P09	2R	20792831	20813831	located_end	20792831
		estimated_end	20813831		
CH322-156P10	3L	5162718	5183718	located_end	5162718
		estimated_end	5183718		
CH322-156P11	2R	7438560	7459560	located_end	7438560
		estimated_end	7459560		
CH322-156P12	2L	16822850	16843850	located_end	16822850
		estimated_end	16843850		
CH322-156P13	X	20145894	20166894	located_end	20145894
		estimated_end	20166894		
CH322-156P14	X	18818625	18839625	located_end	18818625
		estimated_end	18839625		

CH322-156P15	3L	2191004	2212004	located_end	2191004
		estimated_end	2212004		
CH322-156P16	3R	24055143	24076143	located_end	24055143
		estimated_end	24076143		
CH322-156P17	3R	20976002	20997002	located_end	20976002
		estimated_end	20997002		
CH322-156P18	3L	16092174	16113174	estimated_end	16092174
		located_end	16113174		
CH322-156P19	3L	20772927	20793927	estimated_end	20772927
		located_end	20793927		
CH322-156P20	3L	17670090	17691090	estimated_end	17670090
		located_end	17691090		
CH322-156P21	3L	11744638	11765638	located_end	11744638
		estimated_end	11765638		
CH322-157A02	2L	961520	982520	located_end	961520
		estimated_end	982520		
CH322-157B06	3L	6739436	6760436	located_end	6739436
		estimated_end	6760436		
CH322-157B19	3L	24263163	24284163	estimated_end	24263163
		located_end	24284163		
CH322-157C01	3L	9233917	9254917	located_end	9233917
		estimated_end	9254917		
CH322-157C07	2L	11532289	11553289	located_end	11532289
		estimated_end	11553289		
CH322-157D13	3LHet	506118	527118	located_end	506118
		estimated_end	527118		
CH322-157D15	3L	10680632	10701632	estimated_end	10680632
		located_end	10701632		
CH322-157E23	3RHet	1571440	1592440	estimated_end	1571440
		located_end	1592440		
CH322-157F01	3L	1198118	1219118	estimated_end	1198118
		located_end	1219118		
CH322-157F02	X	17919530	17940530	located_end	17919530
		estimated_end	17940530		
CH322-157F11	ArmU	3552267	3573267	estimated_end	3552267
		located_end	3573267		
CH322-157F13	3R	16095095	16116095	estimated_end	16095095
		located_end	16116095		
CH322-157F23	2L	3075487	3096487	estimated_end	3075487
		located_end	3096487		
CH322-157F24	3L	1484671	1505671	estimated_end	1484671
		located_end	1505671		
CH322-157G24	3R	3909464	3930464	estimated_end	3909464
		located_end	3930464		
CH322-157H23	X	4973067	4994067	located_end	4973067
		estimated_end	4994067		
CH322-157I01	ArmU	2457616	2478616	estimated_end	2457616
		located_end	2478616		
CH322-157I22	ArmU	5680684	5701684	estimated_end	5680684
		located_end	5701684		
CH322-157J14	2R	9170500	9191500	located_end	9170500
		estimated_end	9191500		
CH322-157J16	2R	19450489	19471489	estimated_end	19450489
		located_end	19471489		

CH322-157J22	3L	6884557	6905557	estimated_end	6884557
		located_end	6905557		
CH322-157J24	3R	1337417	1358417	located_end	1337417
		estimated_end	1358417		
CH322-157K13	X	9799733	9820733	located_end	9799733
		estimated_end	9820733		
CH322-157K17	2L	5564 26564	estimated_end	5564	located_end
		26564			
CH322-157L14	2R	5435755	5456755	estimated_end	5435755
		located_end	5456755		
CH322-157L19	2R	14705504	14726504	estimated_end	14705504
		located_end	14726504		
CH322-157N24	3L	21082115	21103115	located_end	21082115
		estimated_end	21103115		
CH322-157O14	3R	17209303	17230303	estimated_end	17209303
		located_end	17230303		
CH322-157O15	2L	4071045	4092045	estimated_end	4071045
		located_end	4092045		
CH322-157O18	ArmU	8785547	8806547	estimated_end	8785547
		located_end	8806547		
CH322-157O23	3L	21840044	21861044	estimated_end	21840044
		located_end	21861044		
CH322-157O24	2R	20739830	20760830	estimated_end	20739830
		located_end	20760830		
CH322-157P18	X	9657311	9678311	located_end	9657311
		estimated_end	9678311		
CH322-157P22	2R	15718073	15739073	located_end	15718073
		estimated_end	15739073		
CH322-158A06	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-158A13	X	9567712	9588712	estimated_end	9567712
		located_end	9588712		
CH322-158A21	2R	5545794	5566794	located_end	5545794
		estimated_end	5566794		
CH322-158B03	2L	18034093	18055093	located_end	18034093
		estimated_end	18055093		
CH322-158E15	ArmU	5657399	5678399	located_end	5657399
		estimated_end	5678399		
CH322-158E22	2R	20081948	20102948	estimated_end	20081948
		located_end	20102948		
CH322-158G19	3R	4687638	4708638	located_end	4687638
		estimated_end	4708638		
CH322-158G23	4	1266836	1287836	estimated_end	1266836
		located_end	1287836		
CH322-158H02	3R	22673267	22694267	estimated_end	22673267
		located_end	22694267		
CH322-158H22	2R	15495321	15516321	estimated_end	15495321
		located_end	15516321		
CH322-158H24	X	15944546	15965546	estimated_end	15944546
		located_end	15965546		
CH322-158I01	2L	15729970	15750970	located_end	15729970
		estimated_end	15750970		
CH322-158I05	2L	22983178	23004178	located_end	22983178
		estimated_end	23004178		

CH322-158I07	3L	2781908	2802908	estimated_end	2781908
		located_end	2802908		
CH322-158J02	X	20179069	20200069	estimated_end	20179069
		located_end	20200069		
CH322-158K08	ArmU	6182881	6203881	located_end	6182881
		estimated_end	6203881		
CH322-158K12	3L	7157227	7178227	estimated_end	7157227
		located_end	7178227		
CH322-158L12	ArmU	4790049	4811049	located_end	4790049
		estimated_end	4811049		
CH322-158M07	3R	1690003	1711003	estimated_end	1690003
		located_end	1711003		
CH322-158M11	ArmU	9775455	9796455	estimated_end	9775455
		located_end	9796455		
CH322-158N01	3R	19646058	19667058	located_end	19646058
		estimated_end	19667058		
CH322-158N06	X	7146532	7167532	estimated_end	7146532
		located_end	7167532		
CH322-158O01	2L	2050722	2071722	located_end	2050722
		estimated_end	2071722		
CH322-158O02	3R	14804546	14825546	estimated_end	14804546
		located_end	14825546		
CH322-158O05	3L	6637140	6658140	located_end	6637140
		estimated_end	6658140		
CH322-158O13	3R	7154771	7175771	estimated_end	7154771
		located_end	7175771		
CH322-158O15	2L	5750651	5771651	estimated_end	5750651
		located_end	5771651		
CH322-158O19	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-158O23	3L	22682107	22703107	located_end	22682107
		estimated_end	22703107		
CH322-158P05	2R	9842994	9863994	estimated_end	9842994
		located_end	9863994		
CH322-158P21	3R	3597177	3618177	located_end	3597177
		estimated_end	3618177		
CH322-159A15	3R	6540514	6561514	located_end	6540514
		estimated_end	6561514		
CH322-159B04	ArmU	5657399	5678399	located_end	5657399
		estimated_end	5678399		
CH322-159B17	3R	27589029	27610029	estimated_end	27589029
		located_end	27610029		
CH322-159B18	2L	6560097	6581097	located_end	6560097
		estimated_end	6581097		
CH322-159C07	X	19366128	19387128	estimated_end	19366128
		located_end	19387128		
CH322-159C11	3R	1795261	1816261	located_end	1795261
		estimated_end	1816261		
CH322-159C16	2RHet	2570376	2591376	estimated_end	2570376
		located_end	2591376		
CH322-159E01	3L	20027792	20048792	estimated_end	20027792
		located_end	20048792		
CH322-159E22	X	19075481	19096481	estimated_end	19075481
		located_end	19096481		

CH322-159F21	3L	9630552	9651552	located_end	9630552
		estimated_end	9651552		
CH322-159H02	2RHet	2756376	2777376	estimated_end	2756376
		located_end	2777376		
CH322-159I10	ArmU	2435667	2456667	located_end	2435667
		estimated_end	2456667		
CH322-159I22	2R	4958330	4979330	located_end	4958330
		estimated_end	4979330		
CH322-159J03	3R	18089471	18110471	estimated_end	18089471
		located_end	18110471		
CH322-159J22	2L	9894531	9915531	located_end	9894531
		estimated_end	9915531		
CH322-159N08	ArmU	949455	970455	estimated_end	949455
		located_end	970455		
CH322-159N21	3R	19643787	19664787	located_end	19643787
		estimated_end	19664787		
CH322-159N22	2R	21043256	21064256	estimated_end	21043256
		located_end	21064256		
CH322-159O23	3R	1896406	1917406	estimated_end	1896406
		located_end	1917406		
CH322-159O24	2L	13751376	13772376	located_end	13751376
		estimated_end	13772376		
CH322-159P01	X	10933946	10954946	estimated_end	10933946
		located_end	10954946		
CH322-159P06	X	10835698	10856698	estimated_end	10835698
		located_end	10856698		
CH322-159P07	2L	18201562	18222562	estimated_end	18201562
		located_end	18222562		
CH322-159P09	ArmU	5713190	5734190	located_end	5713190
		estimated_end	5734190		
CH322-159P11	3L	7583610	7604610	estimated_end	7583610
		located_end	7604610		
CH322-159P24	3RHet	2174629	2195629	estimated_end	2174629
		located_end	2195629		
CH322-15A01	XHet	143049	164049	located_end	143049
		estimated_end	164049		
CH322-15A13	3R	21480586	21501586	located_end	21480586
		estimated_end	21501586		
CH322-15B01	2L	17487635	17508635	located_end	17487635
		estimated_end	17508635		
CH322-15B02	2L	7473971	7494971	estimated_end	7473971
		located_end	7494971		
CH322-15B12	2R	11232868	11253868	estimated_end	11232868
		located_end	11253868		
CH322-15B19	2L	7609337	7630337	located_end	7609337
		estimated_end	7630337		
CH322-15C02	2L	3800023	3821023	estimated_end	3800023
		located_end	3821023		
CH322-15C04	3R	1364795	1385795	located_end	1364795
		estimated_end	1385795		
CH322-15C13	3R	26479923	26500923	estimated_end	26479923
		located_end	26500923		
CH322-15C15	2RHet	2814348	2835348	located_end	2814348
		estimated_end	2835348		

CH322-15C18 X	10573824	10594824	estimated_end	10573824
	located_end	10594824		
CH322-15D01 2R	186143	207143	located_end	186143
	estimated_end	207143		
CH322-15D03 X	9144746	9165746	located_end	9144746
	estimated_end	9165746		
CH322-15D07 2L	21368723	21389723	located_end	21368723
	estimated_end	21389723		
CH322-15D11 3R	18817577	18838577	located_end	18817577
	estimated_end	18838577		
CH322-15D13 3R	5720490	5741490	located_end	5720490
	estimated_end	5741490		
CH322-15D14 3L	2691692	2712692	located_end	2691692
	estimated_end	2712692		
CH322-15D15 3R	624791	645791	estimated_end	624791
	located_end	645791		
CH322-15D16 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-15D20 2L	4875317	4896317	estimated_end	4875317
	located_end	4896317		
CH322-15D24 2R	20235888	20256888	located_end	20235888
	estimated_end	20256888		
CH322-15E05 X	5225087	5246087	located_end	5225087
	estimated_end	5246087		
CH322-15E13 2R	18495561	18516561	estimated_end	18495561
	located_end	18516561		
CH322-15E17 3L	21604469	21625469	located_end	21604469
	estimated_end	21625469		
CH322-15E24 3L	11642880	11663880	located_end	11642880
	estimated_end	11663880		
CH322-15F13 3L	5326369	5347369	estimated_end	5326369
	located_end	5347369		
CH322-15F17 2R	6044472	6065472	located_end	6044472
	estimated_end	6065472		
CH322-15G04 3L	23287954	23308954	estimated_end	23287954
	located_end	23308954		
CH322-15G07 2R	3726605	3747605	located_end	3726605
	estimated_end	3747605		
CH322-15G11 X	17818832	17839832	estimated_end	17818832
	located_end	17839832		
CH322-15G17 2L	4528764	4549764	estimated_end	4528764
	located_end	4549764		
CH322-15G20 3R	1439459	1460459	estimated_end	1439459
	located_end	1460459		
CH322-15G24 2L	13913947	13934947	estimated_end	13913947
	located_end	13934947		
CH322-15H07 2R	4568005	4589005	estimated_end	4568005
	located_end	4589005		
CH322-15H15 2L	13383551	13404551	located_end	13383551
	estimated_end	13404551		
CH322-15I04 2L	11693428	11714428	located_end	11693428
	estimated_end	11714428		
CH322-15I10 2L	16365888	16386888	located_end	16365888
	estimated_end	16386888		

CH322-15I11 3LHet	626892	647892	located_end	626892
	estimated_end	647892		
CH322-15I13 X	17220640	17241640	estimated_end	17220640
	located_end	17241640		
CH322-15I16 2L	15409068	15430068	located_end	15409068
	estimated_end	15430068		
CH322-15I17 X	20518902	20539902	located_end	20518902
	estimated_end	20539902		
CH322-15I18 3R	1689841	1710841	located_end	1689841
	estimated_end	1710841		
CH322-15I19 2R	5242773	5263773	estimated_end	5242773
	located_end	5263773		
CH322-15I22 3L	471152	492152	located_end	471152
	estimated_end	492152		
CH322-15J05 ArmU	2861084	2882084	estimated_end	2861084
	located_end	2882084		
CH322-15J14 2R	12430915	12451915	estimated_end	12430915
	located_end	12451915		
CH322-15J22 3L	8038501	8059501	estimated_end	8038501
	located_end	8059501		
CH322-15K07 2R	5399858	5420858	located_end	5399858
	estimated_end	5420858		
CH322-15K09 3R	5887043	5908043	located_end	5887043
	estimated_end	5908043		
CH322-15K14 3L	23024189	23045189	located_end	23024189
	estimated_end	23045189		
CH322-15K15 X	18354134	18375134	located_end	18354134
	estimated_end	18375134		
CH322-15K17 X	12085284	12106284	estimated_end	12085284
	located_end	12106284		
CH322-15K19 2L	15851640	15872640	estimated_end	15851640
	located_end	15872640		
CH322-15K23 2L	5338008	5359008	estimated_end	5338008
	located_end	5359008		
CH322-15L01 X	14428217	14449217	located_end	14428217
	estimated_end	14449217		
CH322-15L02 2L	4884604	4905604	estimated_end	4884604
	located_end	4905604		
CH322-15L21 2R	6435637	6456637	located_end	6435637
	estimated_end	6456637		
CH322-15M08 2RHet	2845595	2866595	located_end	2845595
	estimated_end	2866595		
CH322-15M12 3L	17515003	17536003	estimated_end	17515003
	located_end	17536003		
CH322-15N13 3L	10975551	10996551	estimated_end	10975551
	located_end	10996551		
CH322-15N24 ArmU	580394	601394	located_end	580394
	estimated_end	601394		
CH322-15O23 2L	22917267	22938267	located_end	22917267
	estimated_end	22938267		
CH322-15P18 3R	24461046	24482046	located_end	24461046
	estimated_end	24482046		
CH322-160A01	2L	5387954	5408954	estimated_end 5387954
	located_end	5408954		

CH322-160A02	3L	9228659	9249659	estimated_end	9228659
		located_end	9249659		
CH322-160A04	2L	1913820	1934820	estimated_end	1913820
		located_end	1934820		
CH322-160A05	2R	8618898	8639898	located_end	8618898
		estimated_end	8639898		
CH322-160A09	3L	17944681	17965681	located_end	17944681
		estimated_end	17965681		
CH322-160A21	3L	7907128	7928128	located_end	7907128
		estimated_end	7928128		
CH322-160A24	X	8380781	8401781	located_end	8380781
		estimated_end	8401781		
CH322-160B03	2R	10858812	10879812	located_end	10858812
		estimated_end	10879812		
CH322-160B04	2L	5440887	5461887	located_end	5440887
		estimated_end	5461887		
CH322-160B14	2L	14562942	14583942	estimated_end	14562942
		located_end	14583942		
CH322-160B20	3L	11662215	11683215	located_end	11662215
		estimated_end	11683215		
CH322-160B24	3L	6740039	6761039	located_end	6740039
		estimated_end	6761039		
CH322-160C01	X	16692001	16713001	estimated_end	16692001
		located_end	16713001		
CH322-160C03	3R	21516449	21537449	estimated_end	21516449
		located_end	21537449		
CH322-160C07	3R	13801916	13822916	located_end	13801916
		estimated_end	13822916		
CH322-160D01	3L	23307695	23328695	located_end	23307695
		estimated_end	23328695		
CH322-160D24	2L	507323	528323	estimated_end	507323
		located_end	528323		
CH322-160E08	3R	13215493	13236493	located_end	13215493
		estimated_end	13236493		
CH322-160F01	2R	15043777	15064777	located_end	15043777
		estimated_end	15064777		
CH322-160G16	2R	20802237	20823237	located_end	20802237
		estimated_end	20823237		
CH322-160H17	3R	22321339	22342339	located_end	22321339
		estimated_end	22342339		
CH322-160I01	3R	20578256	20599256	located_end	20578256
		estimated_end	20599256		
CH322-160I06	3R	476605	497605	estimated_end	476605
		located_end	497605		
CH322-160I20	ArmU	9384623	9405623	located_end	9384623
		estimated_end	9405623		
CH322-160I23	3L	9508941	9529941	located_end	9508941
		estimated_end	9529941		
CH322-160J01	3R	11977998	11998998	located_end	11977998
		estimated_end	11998998		
CH322-160J05	3L	11425448	11446448	located_end	11425448
		estimated_end	11446448		
CH322-160J06	2L	18467045	18488045	estimated_end	18467045
		located_end	18488045		

CH322-160J24	ArmU	8148290	8169290	located_end	8148290
	estimated_end	8169290			
CH322-160K01	2R	10079603	10100603	estimated_end	10079603
	located_end	10100603			
CH322-160K06	3R	13002810	13023810	located_end	13002810
	estimated_end	13023810			
CH322-160K09	3L	21238599	21259599	estimated_end	21238599
	located_end	21259599			
CH322-160K11	ArmU	6508785	6529785	estimated_end	6508785
	located_end	6529785			
CH322-160K12	X	14852766	14873766	estimated_end	14852766
	located_end	14873766			
CH322-160K14	3R	27790888	27811888	located_end	27790888
	estimated_end	27811888			
CH322-160K16	3R	11197545	11218545	estimated_end	11197545
	located_end	11218545			
CH322-160K20	ArmU	7627594	7648594	estimated_end	7627594
	located_end	7648594			
CH322-160L02	X	5582254	5603254	estimated_end	5582254
	located_end	5603254			
CH322-160L04	2R	16211762	16232762	estimated_end	16211762
	located_end	16232762			
CH322-160L05	3R	15088554	15109554	located_end	15088554
	estimated_end	15109554			
CH322-160L10	4	161001	182001	located_end	161001
	estimated_end	182001			
CH322-160L18	3L	11129243	11150243	located_end	11129243
	estimated_end	11150243			
CH322-160L21	3R	13337466	13358466	estimated_end	13337466
	located_end	13358466			
CH322-160M01	3L	19304689	19325689	estimated_end	19304689
	located_end	19325689			
CH322-160M03	3L	10256543	10277543	estimated_end	10256543
	located_end	10277543			
CH322-160M15	3R	18657480	18678480	estimated_end	18657480
	located_end	18678480			
CH322-160N01	3R	17009083	17030083	estimated_end	17009083
	located_end	17030083			
CH322-160N06	2L	2105991	2126991	estimated_end	2105991
	located_end	2126991			
CH322-160N08	3R	10104305	10125305	estimated_end	10104305
	located_end	10125305			
CH322-160N10	X	9590889	9611889	estimated_end	9590889
	located_end	9611889			
CH322-160O02	3L	8252227	8273227	estimated_end	8252227
	located_end	8273227			
CH322-160O05	3L	9691816	9712816	located_end	9691816
	estimated_end	9712816			
CH322-160O06	2L	17375013	17396013	located_end	17375013
	estimated_end	17396013			
CH322-160O10	3R	23091690	23112690	estimated_end	23091690
	located_end	23112690			
CH322-160O12	3LHet	924954	945954	located_end	924954
	estimated_end	945954			

CH322-160016	X	3991127	4012127	located_end	3991127
		estimated_end	4012127		
CH322-160018	3L	2270027	2291027	located_end	2270027
		estimated_end	2291027		
CH322-160019	2L	4775478	4796478	estimated_end	4775478
		located_end	4796478		
CH322-160023	2L	2521762	2542762	estimated_end	2521762
		located_end	2542762		
CH322-160P01	3R	26234835	26255835	estimated_end	26234835
		located_end	26255835		
CH322-160P02	3R	23221861	23242861	located_end	23221861
		estimated_end	23242861		
CH322-160P06	3L	20071448	20092448	estimated_end	20071448
		located_end	20092448		
CH322-160P14	3L	1395515	1416515	located_end	1395515
		estimated_end	1416515		
CH322-160P16	X	21877348	21898348	estimated_end	21877348
		located_end	21898348		
CH322-160P22	3R	23967616	23988616	estimated_end	23967616
		located_end	23988616		
CH322-160P23	3L	9994572	10015572	located_end	9994572
		estimated_end	10015572		
CH322-161A03	2RHet	2423685	2444685	estimated_end	2423685
		located_end	2444685		
CH322-161A12	3R	4944071	4965071	estimated_end	4944071
		located_end	4965071		
CH322-161A14	2R	15715701	15736701	located_end	15715701
		estimated_end	15736701		
CH322-161A18	2L	22963147	22984147	estimated_end	22963147
		located_end	22984147		
CH322-161A24	2R	6525145	6546145	located_end	6525145
		estimated_end	6546145		
CH322-161B02	2L	3935294	3956294	estimated_end	3935294
		located_end	3956294		
CH322-161B05	3L	12149045	12170045	estimated_end	12149045
		located_end	12170045		
CH322-161B06	3R	15332680	15353680	located_end	15332680
		estimated_end	15353680		
CH322-161B15	X	16400127	16421127	estimated_end	16400127
		located_end	16421127		
CH322-161B17	3L	11413475	11434475	located_end	11413475
		estimated_end	11434475		
CH322-161B18	2L	4355545	4376545	located_end	4355545
		estimated_end	4376545		
CH322-161B19	3R	15330209	15351209	estimated_end	15330209
		located_end	15351209		
CH322-161B20	X	13439237	13460237	estimated_end	13439237
		located_end	13460237		
CH322-161C01	3R	27692109	27713109	located_end	27692109
		estimated_end	27713109		
CH322-161C05	3L	8108886	8129886	located_end	8108886
		estimated_end	8129886		
CH322-161C07	2R	9988685	10009685	estimated_end	9988685
		located_end	10009685		

CH322-161C09	3R	9902423	9923423	estimated_end	9902423
		located_end	9923423		
CH322-161C12	X	14139155	14160155	estimated_end	14139155
		located_end	14160155		
CH322-161C18	2L	15412920	15433920	estimated_end	15412920
		located_end	15433920		
CH322-161D04	2L	5792129	5813129	estimated_end	5792129
		located_end	5813129		
CH322-161D06	X	7649095	7670095	located_end	7649095
		estimated_end	7670095		
CH322-161D17	3R	20056900	20077900	located_end	20056900
		estimated_end	20077900		
CH322-161D21	3R	13733336	13754336	estimated_end	13733336
		located_end	13754336		
CH322-161D23	X	10478919	10499919	located_end	10478919
		estimated_end	10499919		
CH322-161E03	3R	22242866	22263866	located_end	22242866
		estimated_end	22263866		
CH322-161E05	X	6894816	6915816	estimated_end	6894816
		located_end	6915816		
CH322-161E06	3L	6629859	6650859	located_end	6629859
		estimated_end	6650859		
CH322-161E07	X	16295676	16316676	estimated_end	16295676
		located_end	16316676		
CH322-161E14	2L	11859202	11880202	located_end	11859202
		estimated_end	11880202		
CH322-161F04	3L	2771067	2792067	located_end	2771067
		estimated_end	2792067		
CH322-161F07	3R	365443	386443	estimated_end	365443
		located_end	386443		
CH322-161F08	3L	14040720	14061720	estimated_end	14040720
		located_end	14061720		
CH322-161F11	3L	7607872	7628872	located_end	7607872
		estimated_end	7628872		
CH322-161F12	3R	4547888	4568888	estimated_end	4547888
		located_end	4568888		
CH322-161F16	2L	18722690	18743690	located_end	18722690
		estimated_end	18743690		
CH322-161F17	X	18166152	18187152	estimated_end	18166152
		located_end	18187152		
CH322-161F18	3R	2270162	2291162	estimated_end	2270162
		located_end	2291162		
CH322-161F19	3L	9593883	9614883	estimated_end	9593883
		located_end	9614883		
CH322-161F23	3R	10764051	10785051	estimated_end	10764051
		located_end	10785051		
CH322-161G06	X	15288928	15309928	located_end	15288928
		estimated_end	15309928		
CH322-161G10	3R	13754115	13775115	estimated_end	13754115
		located_end	13775115		
CH322-161G15	2R	16748831	16769831	located_end	16748831
		estimated_end	16769831		
CH322-161G18	3L	9926529	9947529	estimated_end	9926529
		located_end	9947529		

CH322-161H02	3L	15309595	15330595	estimated_end	15309595
		located_end	15330595		
CH322-161H03	2L	8797026	8818026	estimated_end	8797026
		located_end	8818026		
CH322-161H04	ArmU	9774959	9795959	estimated_end	9774959
		located_end	9795959		
CH322-161H06	X	9871734	9892734	estimated_end	9871734
		located_end	9892734		
CH322-161H14	2R	13765738	13786738	located_end	13765738
		estimated_end	13786738		
CH322-161H19	2R	10976432	10997432	estimated_end	10976432
		located_end	10997432		
CH322-161H23	2R	17412692	17433692	located_end	17412692
		estimated_end	17433692		
CH322-161I02	3L	9904443	9925443	located_end	9904443
		estimated_end	9925443		
CH322-161I03	2L	3258902	3279902	estimated_end	3258902
		located_end	3279902		
CH322-161I08	X	19846552	19867552	estimated_end	19846552
		located_end	19867552		
CH322-161J04	3R	26626962	26647962	located_end	26626962
		estimated_end	26647962		
CH322-161J05	3R	22526692	22547692	located_end	22526692
		estimated_end	22547692		
CH322-161J08	2L	5696780	5717780	estimated_end	5696780
		located_end	5717780		
CH322-161J12	2R	8859044	8880044	estimated_end	8859044
		located_end	8880044		
CH322-161J14	3R	2138269	2159269	estimated_end	2138269
		located_end	2159269		
CH322-161J23	X	17266879	17287879	estimated_end	17266879
		located_end	17287879		
CH322-161K03	3L	21440342	21461342	estimated_end	21440342
		located_end	21461342		
CH322-161K04	2L	14493922	14514922	located_end	14493922
		estimated_end	14514922		
CH322-161K08	2R	13453885	13474885	estimated_end	13453885
		located_end	13474885		
CH322-161K09	X	528272	549272	located_end	528272
		estimated_end	549272		
CH322-161K11	3R	24129543	24150543	located_end	24129543
		estimated_end	24150543		
CH322-161K12	4	253561	274561	estimated_end	253561
		located_end	274561		
CH322-161K14	2R	17154312	17175312	estimated_end	17154312
		located_end	17175312		
CH322-161L01	X	12888293	12909293	estimated_end	12888293
		located_end	12909293		
CH322-161L08	3L	19322981	19343981	estimated_end	19322981
		located_end	19343981		
CH322-161L10	2L	20522901	20543901	located_end	20522901
		estimated_end	20543901		
CH322-161L17	X	15943435	15964435	estimated_end	15943435
		located_end	15964435		

CH322-161L18	2L	12878141	12899141	located_end	12878141
		estimated_end	12899141		
CH322-161L21	3R	27696391	27717391	located_end	27696391
		estimated_end	27717391		
CH322-161L24	2L	310973	331973	located_end	310973
		estimated_end	331973		
CH322-161M01	X	7397540	7418540	estimated_end	7397540
		located_end	7418540		
CH322-161M05	3L	3272362	3293362	located_end	3272362
		estimated_end	3293362		
CH322-161M07	X	14006450	14027450	estimated_end	14006450
		located_end	14027450		
CH322-161M08	2L	1889915	1910915	located_end	1889915
		estimated_end	1910915		
CH322-161M09	3R	9018573	9039573	estimated_end	9018573
		located_end	9039573		
CH322-161M10	2L	17369577	17390577	estimated_end	17369577
		located_end	17390577		
CH322-161M12	X	16950043	16971043	located_end	16950043
		estimated_end	16971043		
CH322-161M13	2R	8422590	8443590	located_end	8422590
		estimated_end	8443590		
CH322-161M14	3R	15771707	15792707	located_end	15771707
		estimated_end	15792707		
CH322-161M15	3L	7632211	7653211	located_end	7632211
		estimated_end	7653211		
CH322-161M19	X	15110421	15131421	estimated_end	15110421
		located_end	15131421		
CH322-161N12	X	9420715	9441715	estimated_end	9420715
		located_end	9441715		
CH322-161N17	ArmU	5698833	5719833	located_end	5698833
		estimated_end	5719833		
CH322-161N19	3L	17208503	17229503	estimated_end	17208503
		located_end	17229503		
CH322-161N20	2L	1884320	1905320	estimated_end	1884320
		located_end	1905320		
CH322-161O03	3L	119941	140941	located_end	119941
		estimated_end	140941		
CH322-161O06	2L	17946933	17967933	located_end	17946933
		estimated_end	17967933		
CH322-161O08	3L	3635159	3656159	located_end	3635159
		estimated_end	3656159		
CH322-161O09	2L	9553083	9574083	estimated_end	9553083
		located_end	9574083		
CH322-161O10	X	14034137	14055137	located_end	14034137
		estimated_end	14055137		
CH322-161O12	X	9458169	9479169	located_end	9458169
		estimated_end	9479169		
CH322-161O16	2R	13343654	13364654	located_end	13343654
		estimated_end	13364654		
CH322-161P03	3R	7203949	7224949	located_end	7203949
		estimated_end	7224949		
CH322-161P04	3R	14342854	14363854	estimated_end	14342854
		located_end	14363854		

CH322-161P07	2L	20357535	20378535	estimated_end	20357535
		located_end	20378535		
CH322-162A21	2R	12430915	12451915	estimated_end	12430915
		located_end	12451915		
CH322-162A22	3R	14652745	14673745	estimated_end	14652745
		located_end	14673745		
CH322-162A23	4	571216	592216	located_end	571216
		estimated_end	592216		
CH322-162B02	X	2662311	2683311	located_end	2662311
		estimated_end	2683311		
CH322-162B04	ArmU	7265507	7286507	estimated_end	7265507
		located_end	7286507		
CH322-162B07	3L	4664108	4685108	estimated_end	4664108
		located_end	4685108		
CH322-162B12	3R	21094407	21115407	located_end	21094407
		estimated_end	21115407		
CH322-162B15	2L	4122822	4143822	located_end	4122822
		estimated_end	4143822		
CH322-162B22	3L	18748914	18769914	located_end	18748914
		estimated_end	18769914		
CH322-162B24	3L	14569869	14590869	located_end	14569869
		estimated_end	14590869		
CH322-162C07	2R	12802991	12823991	located_end	12802991
		estimated_end	12823991		
CH322-162D08	2R	20236985	20257985	estimated_end	20236985
		located_end	20257985		
CH322-162D09	X	9949727	9970727	estimated_end	9949727
		located_end	9970727		
CH322-162D10	2R	5808144	5829144	located_end	5808144
		estimated_end	5829144		
CH322-162D14	3R	24338634	24359634	estimated_end	24338634
		located_end	24359634		
CH322-162D15	3R	27890620	27911620	located_end	27890620
		estimated_end	27911620		
CH322-162D17	X	10672191	10693191	located_end	10672191
		estimated_end	10693191		
CH322-162D24	3R	416756	437756	estimated_end	416756
		located_end	437756		
CH322-162E07	2L	17431183	17452183	estimated_end	17431183
		located_end	17452183		
CH322-162E23	3R	1011302	1032302	estimated_end	1011302
		located_end	1032302		
CH322-162E24	2L	15209577	15230577	located_end	15209577
		estimated_end	15230577		
CH322-162F02	3R	18120771	18141771	estimated_end	18120771
		located_end	18141771		
CH322-162F03	ArmU	85055 106055		estimated_end	85055
		located_end	106055		
CH322-162F08	2L	14931290	14952290	located_end	14931290
		estimated_end	14952290		
CH322-162F10	3R	9529472	9550472	estimated_end	9529472
		located_end	9550472		
CH322-162F11	3L	9046417	9067417	estimated_end	9046417
		located_end	9067417		

CH322-162F18	X	4574853	4595853	located_end	4574853
		estimated_end	4595853		
CH322-162F23	3L	949421	970421	estimated_end	949421
		located_end	970421		
CH322-162F24	3R	6708798	6729798	estimated_end	6708798
		located_end	6729798		
CH322-162G01	2R	12425484	12446484	estimated_end	12425484
		located_end	12446484		
CH322-162G04	2L	11535680	11556680	located_end	11535680
		estimated_end	11556680		
CH322-162G06	2L	1555807	1576807	estimated_end	1555807
		located_end	1576807		
CH322-162G19	X	13896635	13917635	estimated_end	13896635
		located_end	13917635		
CH322-162H06	2L	20363798	20384798	estimated_end	20363798
		located_end	20384798		
CH322-162H13	2R	8597852	8618852	estimated_end	8597852
		located_end	8618852		
CH322-162H14	2R	12619064	12640064	estimated_end	12619064
		located_end	12640064		
CH322-162H20	3R	21603501	21624501	located_end	21603501
		estimated_end	21624501		
CH322-162H22	3L	8734105	8755105	estimated_end	8734105
		located_end	8755105		
CH322-162H23	X	13748370	13769370	estimated_end	13748370
		located_end	13769370		
CH322-162H24	3L	20738866	20759866	estimated_end	20738866
		located_end	20759866		
CH322-162I15	3R	10968424	10989424	located_end	10968424
		estimated_end	10989424		
CH322-162J01	X	11490432	11511432	estimated_end	11490432
		located_end	11511432		
CH322-162J03	3R	17268504	17289504	located_end	17268504
		estimated_end	17289504		
CH322-162J11	2R	11587393	11608393	estimated_end	11587393
		located_end	11608393		
CH322-162J23	3L	14044499	14065499	estimated_end	14044499
		located_end	14065499		
CH322-162K08	3R	6624284	6645284	estimated_end	6624284
		located_end	6645284		
CH322-162K11	ArmU	5751490	5772490	estimated_end	5751490
		located_end	5772490		
CH322-162K17	2L	14717224	14738224	located_end	14717224
		estimated_end	14738224		
CH322-162K18	3R	18724502	18745502	located_end	18724502
		estimated_end	18745502		
CH322-162K23	3L	11266598	11287598	located_end	11266598
		estimated_end	11287598		
CH322-162L02	2L	12134330	12155330	located_end	12134330
		estimated_end	12155330		
CH322-162L04	X	12800886	12821886	estimated_end	12800886
		located_end	12821886		
CH322-162L13	2L	16059596	16080596	located_end	16059596
		estimated_end	16080596		

CH322-162L18	3L	15014506	15035506	located_end	15014506
		estimated_end	15035506		
CH322-162L21	2L	19089509	19110509	estimated_end	19089509
		located_end	19110509		
CH322-162L24	3R	22869174	22890174	located_end	22869174
		estimated_end	22890174		
CH322-162M05	3R	7992916	8013916	estimated_end	7992916
		located_end	8013916		
CH322-162M06	3R	5938742	5959742	located_end	5938742
		estimated_end	5959742		
CH322-162M10	2L	21071011	21092011	estimated_end	21071011
		located_end	21092011		
CH322-162M20	3R	8742898	8763898	estimated_end	8742898
		located_end	8763898		
CH322-162M22	3L	15568327	15589327	estimated_end	15568327
		located_end	15589327		
CH322-162M23	X	72021 93021	72021	estimated_end	72021 located_end
		93021			
CH322-162N02	3L	13811810	13832810	estimated_end	13811810
		located_end	13832810		
CH322-162N03	3R	24679586	24700586	located_end	24679586
		estimated_end	24700586		
CH322-162N05	2R	15802797	15823797	estimated_end	15802797
		located_end	15823797		
CH322-162N06	3R	16099925	16120925	estimated_end	16099925
		located_end	16120925		
CH322-162N11	3L	17133623	17154623	located_end	17133623
		estimated_end	17154623		
CH322-162N14	X	14625507	14646507	located_end	14625507
		estimated_end	14646507		
CH322-162N16	X	12309133	12330133	estimated_end	12309133
		located_end	12330133		
CH322-162N18	2L	20937875	20958875	estimated_end	20937875
		located_end	20958875		
CH322-162N19	X	5370983	5391983	located_end	5370983
		estimated_end	5391983		
CH322-162N20	3R	24882831	24903831	estimated_end	24882831
		located_end	24903831		
CH322-162N22	3R	22696087	22717087	located_end	22696087
		estimated_end	22717087		
CH322-162N24	3L	231248	252248	located_end	231248
		estimated_end	252248		
CH322-162O20	ArmU	2826011	2847011	estimated_end	2826011
		located_end	2847011		
CH322-162O23	2R	9371775	9392775	located_end	9371775
		estimated_end	9392775		
CH322-162P02	ArmU	950430	971430	estimated_end	950430
		located_end	971430		
CH322-162P07	3L	381916	402916	located_end	381916
		estimated_end	402916		
CH322-162P10	2R	19129068	19150068	estimated_end	19129068
		located_end	19150068		
CH322-162P12	X	15859801	15880801	located_end	15859801
		estimated_end	15880801		

CH322-162P18	3R	4941672	4962672	estimated_end	4941672
		located_end	4962672		
CH322-162P19	2L	22202220	22223220	estimated_end	22202220
		located_end	22223220		
CH322-162P23	3R	10442213	10463213	estimated_end	10442213
		located_end	10463213		
CH322-162P24	X	15535805	15556805	located_end	15535805
		estimated_end	15556805		
CH322-163A06	3L	12940893	12961893	located_end	12940893
		estimated_end	12961893		
CH322-163A08	2R	5142281	5163281	located_end	5142281
		estimated_end	5163281		
CH322-163A09	3L	17025024	17046024	located_end	17025024
		estimated_end	17046024		
CH322-163A11	2L	9079379	9100379	estimated_end	9079379
		located_end	9100379		
CH322-163A12	X	20486132	20507132	located_end	20486132
		estimated_end	20507132		
CH322-163A15	2R	10403452	10424452	located_end	10403452
		estimated_end	10424452		
CH322-163A16	2L	2158842	2179842	estimated_end	2158842
		located_end	2179842		
CH322-163A18	2R	17423635	17444635	estimated_end	17423635
		located_end	17444635		
CH322-163B03	X	14483797	14504797	estimated_end	14483797
		located_end	14504797		
CH322-163B06	3L	13392005	13413005	estimated_end	13392005
		located_end	13413005		
CH322-163B07	2L	3229250	3250250	estimated_end	3229250
		located_end	3250250		
CH322-163B08	2L	22651111	22672111	located_end	22651111
		estimated_end	22672111		
CH322-163B09	3R	1759682	1780682	located_end	1759682
		estimated_end	1780682		
CH322-163B12	3L	23746960	23767960	located_end	23746960
		estimated_end	23767960		
CH322-163B14	2L	9648537	9669537	located_end	9648537
		estimated_end	9669537		
CH322-163B15	3R	13450862	13471862	estimated_end	13450862
		located_end	13471862		
CH322-163B16	3R	22160274	22181274	located_end	22160274
		estimated_end	22181274		
CH322-163B21	2R	9550812	9571812	estimated_end	9550812
		located_end	9571812		
CH322-163B22	3L	9269711	9290711	estimated_end	9269711
		located_end	9290711		
CH322-163C04	3R	12607617	12628617	estimated_end	12607617
		located_end	12628617		
CH322-163C07	3L	20720304	20741304	located_end	20720304
		estimated_end	20741304		
CH322-163C12	X	18715630	18736630	located_end	18715630
		estimated_end	18736630		
CH322-163C13	2R	14515480	14536480	located_end	14515480
		estimated_end	14536480		

CH322-163C14	X	3855769	3876769	located_end	3855769
		estimated_end	3876769		
CH322-163C16	2R	12402539	12423539	estimated_end	12402539
		located_end	12423539		
CH322-163C20	2R	20555873	20576873	located_end	20555873
		estimated_end	20576873		
CH322-163C23	3LHet	708360	729360	estimated_end	708360
		located_end	729360		
CH322-163C24	2L	21779793	21800793	estimated_end	21779793
		located_end	21800793		
CH322-163D03	3R	9191346	9212346	estimated_end	9191346
		located_end	9212346		
CH322-163D04	3L	19439750	19460750	located_end	19439750
		estimated_end	19460750		
CH322-163D06	X	1692446	1713446	estimated_end	1692446
		located_end	1713446		
CH322-163D10	3R	10504058	10525058	located_end	10504058
		estimated_end	10525058		
CH322-163D13	X	12762226	12783226	estimated_end	12762226
		located_end	12783226		
CH322-163D14	3R	9709639	9730639	located_end	9709639
		estimated_end	9730639		
CH322-163D17	2L	21133631	21154631	located_end	21133631
		estimated_end	21154631		
CH322-163D18	3L	9573986	9594986	located_end	9573986
		estimated_end	9594986		
CH322-163D19	2R	1646815	1667815	estimated_end	1646815
		located_end	1667815		
CH322-163D20	2L	12401834	12422834	estimated_end	12401834
		located_end	12422834		
CH322-163D24	3R	10311906	10332906	estimated_end	10311906
		located_end	10332906		
CH322-163E02	2R	17922728	17943728	located_end	17922728
		estimated_end	17943728		
CH322-163E12	3R	25373050	25394050	estimated_end	25373050
		located_end	25394050		
CH322-163E13	2L	5723000	5744000	located_end	5723000
		estimated_end	5744000		
CH322-163E15	2R	7275465	7296465	located_end	7275465
		estimated_end	7296465		
CH322-163E16	2L	13943473	13964473	located_end	13943473
		estimated_end	13964473		
CH322-163E21	X	11286553	11307553	located_end	11286553
		estimated_end	11307553		
CH322-163E22	3L	20985125	21006125	estimated_end	20985125
		located_end	21006125		
CH322-163E23	X	6198791	6219791	located_end	6198791
		estimated_end	6219791		
CH322-163E24	2L	15303793	15324793	estimated_end	15303793
		located_end	15324793		
CH322-163F01	2L	9712185	9733185	estimated_end	9712185
		located_end	9733185		
CH322-163F06	3L	20332995	20353995	estimated_end	20332995
		located_end	20353995		

CH322-163F08	2L	19476386	19497386	estimated_end	19476386
		located_end	19497386		
CH322-163F11	3L	9341081	9362081	located_end	9341081
		estimated_end	9362081		
CH322-163F13	3L	9628380	9649380	estimated_end	9628380
		located_end	9649380		
CH322-163F14	2R	12283879	12304879	located_end	12283879
		estimated_end	12304879		
CH322-163F18	X	20875981	20896981	estimated_end	20875981
		located_end	20896981		
CH322-163F23	3L	8005224	8026224	estimated_end	8005224
		located_end	8026224		
CH322-163G09	3L	17867225	17888225	located_end	17867225
		estimated_end	17888225		
CH322-163G11	3R	8024637	8045637	located_end	8024637
		estimated_end	8045637		
CH322-163G19	3R	12694417	12715417	estimated_end	12694417
		located_end	12715417		
CH322-163G22	3RHet	2061400	2082400	estimated_end	2061400
		located_end	2082400		
CH322-163G23	2L	13311839	13332839	located_end	13311839
		estimated_end	13332839		
CH322-163G24	2RHet	22538 43538	located_end	22538	estimated_end
		43538			
CH322-163H04	X	8624002	8645002	located_end	8624002
		estimated_end	8645002		
CH322-163H18	3L	15389804	15410804	estimated_end	15389804
		located_end	15410804		
CH322-163H19	X	6028483	6049483	located_end	6028483
		estimated_end	6049483		
CH322-163H20	3L	24484897	24505897	located_end	24484897
		estimated_end	24505897		
CH322-163H21	2L	12599938	12620938	estimated_end	12599938
		located_end	12620938		
CH322-163H24	X	7069658	7090658	located_end	7069658
		estimated_end	7090658		
CH322-163I09	3L	7464919	7485919	located_end	7464919
		estimated_end	7485919		
CH322-163I10	X	15469332	15490332	located_end	15469332
		estimated_end	15490332		
CH322-163I11	2L	22027395	22048395	estimated_end	22027395
		located_end	22048395		
CH322-163I13	3L	3674200	3695200	located_end	3674200
		estimated_end	3695200		
CH322-163I14	2L	16560911	16581911	estimated_end	16560911
		located_end	16581911		
CH322-163I15	3R	1625055	1646055	estimated_end	1625055
		located_end	1646055		
CH322-163I16	3L	14688727	14709727	located_end	14688727
		estimated_end	14709727		
CH322-163I24	X	21967116	21988116	estimated_end	21967116
		located_end	21988116		
CH322-163J03	3R	7335732	7356732	located_end	7335732
		estimated_end	7356732		

CH322-163J09	3L	9642513	9663513	estimated_end	9642513
		located_end	9663513		
CH322-163J10	X	20230056	20251056	estimated_end	20230056
		located_end	20251056		
CH322-163J12	2L	9683415	9704415	estimated_end	9683415
		located_end	9704415		
CH322-163J13	2RHet	559441	580441	estimated_end	559441
		located_end	580441		
CH322-163J14	2L	10092042	10113042	located_end	10092042
		estimated_end	10113042		
CH322-163J15	3L	15424258	15445258	estimated_end	15424258
		located_end	15445258		
CH322-163J18	2R	4654176	4675176	located_end	4654176
		estimated_end	4675176		
CH322-163J19	3L	21029096	21050096	located_end	21029096
		estimated_end	21050096		
CH322-163J20	3L	15898326	15919326	located_end	15898326
		estimated_end	15919326		
CH322-163K01	ArmU	8915955	8936955	located_end	8915955
		estimated_end	8936955		
CH322-163K09	3R	17912731	17933731	estimated_end	17912731
		located_end	17933731		
CH322-163K10	2L	17215687	17236687	located_end	17215687
		estimated_end	17236687		
CH322-163K12	3R	16233310	16254310	estimated_end	16233310
		located_end	16254310		
CH322-163K14	2R	14346193	14367193	estimated_end	14346193
		located_end	14367193		
CH322-163K16	ArmU	964087	985087	estimated_end	964087
		located_end	985087		
CH322-163K21	3L	13532158	13553158	estimated_end	13532158
		located_end	13553158		
CH322-163K22	2R	10659369	10680369	located_end	10659369
		estimated_end	10680369		
CH322-163K23	3R	27089428	27110428	located_end	27089428
		estimated_end	27110428		
CH322-163L12	X	7849769	7870769	estimated_end	7849769
		located_end	7870769		
CH322-163L17	3L	21385755	21406755	located_end	21385755
		estimated_end	21406755		
CH322-163L22	3L	7122687	7143687	located_end	7122687
		estimated_end	7143687		
CH322-163L23	2R	164042	185042	located_end	164042
		estimated_end	185042		
CH322-163L24	ArmU	1476980	1497980	located_end	1476980
		estimated_end	1497980		
CH322-163M02	2R	6789073	6810073	estimated_end	6789073
		located_end	6810073		
CH322-163M08	X	12288517	12309517	located_end	12288517
		estimated_end	12309517		
CH322-163M15	3R	18090814	18111814	estimated_end	18090814
		located_end	18111814		
CH322-163M16	3L	22580560	22601560	estimated_end	22580560
		located_end	22601560		

CH322-163M17	3R	23861680	23882680	estimated_end	23861680
		located_end	23882680		
CH322-163M18	3L	12420890	12441890	estimated_end	12420890
		located_end	12441890		
CH322-163M20	2R	2007246	2028246	located_end	2007246
		estimated_end	2028246		
CH322-163M23	ArmU	4218500	4239500	estimated_end	4218500
		located_end	4239500		
CH322-163N04	3L	20125123	20146123	estimated_end	20125123
		located_end	20146123		
CH322-163N05	3R	3279687	3300687	estimated_end	3279687
		located_end	3300687		
CH322-163N08	X	17152733	17173733	located_end	17152733
		estimated_end	17173733		
CH322-163N10	3R	19664578	19685578	estimated_end	19664578
		located_end	19685578		
CH322-163N12	X	18081473	18102473	located_end	18081473
		estimated_end	18102473		
CH322-163N13	3L	11348447	11369447	estimated_end	11348447
		located_end	11369447		
CH322-163N17	2L	14529629	14550629	estimated_end	14529629
		located_end	14550629		
CH322-163N18	3R	8426044	8447044	estimated_end	8426044
		located_end	8447044		
CH322-163N22	3L	7393909	7414909	located_end	7393909
		estimated_end	7414909		
CH322-163P09	2R	11686088	11707088	estimated_end	11686088
		located_end	11707088		
CH322-163P16	3R	10773683	10794683	estimated_end	10773683
		located_end	10794683		
CH322-163P21	3L	2706783	2727783	located_end	2706783
		estimated_end	2727783		
CH322-164A15	ArmU	8314926	8335926	estimated_end	8314926
		located_end	8335926		
CH322-164B08	ArmU	3910663	3931663	located_end	3910663
		estimated_end	3931663		
CH322-164B19	X	10886254	10907254	estimated_end	10886254
		located_end	10907254		
CH322-164B20	2L	13794192	13815192	located_end	13794192
		estimated_end	13815192		
CH322-164C10	2L	2311791	2332791	estimated_end	2311791
		located_end	2332791		
CH322-164C20	3L	6392113	6413113	located_end	6392113
		estimated_end	6413113		
CH322-164D07	3R	27599918	27620918	located_end	27599918
		estimated_end	27620918		
CH322-164D15	2L	12188890	12209890	estimated_end	12188890
		located_end	12209890		
CH322-164D16	3R	11700525	11721525	estimated_end	11700525
		located_end	11721525		
CH322-164D24	2RHet	2216989	2237989	estimated_end	2216989
		located_end	2237989		
CH322-164E04	3R	13769561	13790561	located_end	13769561
		estimated_end	13790561		

CH322-164E08	3R	9021315	9042315	estimated_end	9021315
		located_end	9042315		
CH322-164E11	2L	8662523	8683523	located_end	8662523
		estimated_end	8683523		
CH322-164E12	X	16079097	16100097	located_end	16079097
		estimated_end	16100097		
CH322-164E13	3L	10912753	10933753	estimated_end	10912753
		located_end	10933753		
CH322-164E15	3R	16753302	16774302	located_end	16753302
		estimated_end	16774302		
CH322-164E17	2R	11159898	11180898	estimated_end	11159898
		located_end	11180898		
CH322-164E19	X	9413941	9434941	estimated_end	9413941
		located_end	9434941		
CH322-164E20	X	12514780	12535780	estimated_end	12514780
		located_end	12535780		
CH322-164F08	2RHet	594493	615493	estimated_end	594493
		located_end	615493		
CH322-164F10	X	14926766	14947766	estimated_end	14926766
		located_end	14947766		
CH322-164G07	3L	7970432	7991432	estimated_end	7970432
		located_end	7991432		
CH322-164G09	3L	11294892	11315892	located_end	11294892
		estimated_end	11315892		
CH322-164G10	2R	8093145	8114145	estimated_end	8093145
		located_end	8114145		
CH322-164G14	3L	2612916	2633916	located_end	2612916
		estimated_end	2633916		
CH322-164H12	3LHet	632943	653943	located_end	632943
		estimated_end	653943		
CH322-164H16	3R	1155868	1176868	estimated_end	1155868
		located_end	1176868		
CH322-164H18	ArmU	8949548	8970548	located_end	8949548
		estimated_end	8970548		
CH322-164I10	3R	12482699	12503699	estimated_end	12482699
		located_end	12503699		
CH322-164I11	3R	24758336	24779336	located_end	24758336
		estimated_end	24779336		
CH322-164I15	2L	8752664	8773664	estimated_end	8752664
		located_end	8773664		
CH322-164I19	X	15395632	15416632	estimated_end	15395632
		located_end	15416632		
CH322-164J02	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-164J07	X	18976651	18997651	estimated_end	18976651
		located_end	18997651		
CH322-164J16	2L	14029613	14050613	located_end	14029613
		estimated_end	14050613		
CH322-164J18	X	17664604	17685604	located_end	17664604
		estimated_end	17685604		
CH322-164K09	X	21271489	21292489	estimated_end	21271489
		located_end	21292489		
CH322-164K11	2L	15075607	15096607	located_end	15075607
		estimated_end	15096607		

CH322-164K14	2L	6909960	6930960	located_end	6909960
		estimated_end	6930960		
CH322-164K15	2R	15429721	15450721	estimated_end	15429721
		located_end	15450721		
CH322-164L03	2L	22500832	22521832	estimated_end	22500832
		located_end	22521832		
CH322-164L12	ArmU	4785856	4806856	located_end	4785856
		estimated_end	4806856		
CH322-164L14	X	12709513	12730513	estimated_end	12709513
		located_end	12730513		
CH322-164M13	2R	12218363	12239363	located_end	12218363
		estimated_end	12239363		
CH322-164M21	X	22161481	22182481	estimated_end	22161481
		located_end	22182481		
CH322-164N14	2R	8164927	8185927	located_end	8164927
		estimated_end	8185927		
CH322-164N17	3R	17964054	17985054	estimated_end	17964054
		located_end	17985054		
CH322-164N22	2L	19186427	19207427	estimated_end	19186427
		located_end	19207427		
CH322-164O23	3R	11140618	11161618	estimated_end	11140618
		located_end	11161618		
CH322-164O24	3R	18265081	18286081	located_end	18265081
		estimated_end	18286081		
CH322-164P07	2L	9271318	9292318	located_end	9271318
		estimated_end	9292318		
CH322-164P15	ArmU	5629455	5650455	estimated_end	5629455
		located_end	5650455		
CH322-164P23	3R	11947408	11968408	located_end	11947408
		estimated_end	11968408		
CH322-164P24	ArmU	9796023	9817023	located_end	9796023
		estimated_end	9817023		
CH322-165A02	2R	4839662	4860662	located_end	4839662
		estimated_end	4860662		
CH322-165A03	3R	10394295	10415295	estimated_end	10394295
		located_end	10415295		
CH322-165A04	3L	10813426	10834426	estimated_end	10813426
		located_end	10834426		
CH322-165A06	2R	9573014	9594014	located_end	9573014
		estimated_end	9594014		
CH322-165A09	X	14332865	14353865	located_end	14332865
		estimated_end	14353865		
CH322-165A11	X	13259021	13280021	estimated_end	13259021
		located_end	13280021		
CH322-165A16	4	784630	805630	located_end	784630
		estimated_end	805630		
CH322-165A17	2R	4207533	4228533	estimated_end	4207533
		located_end	4228533		
CH322-165A18	3R	20630769	20651769	estimated_end	20630769
		located_end	20651769		
CH322-165A19	3R	21963696	21984696	estimated_end	21963696
		located_end	21984696		
CH322-165A21	2L	22822948	22843948	located_end	22822948
		estimated_end	22843948		

CH322-165A22	X	16058777	16079777	estimated_end	16058777
		located_end	16079777		
CH322-165A24	3R	13969013	13990013	located_end	13969013
		estimated_end	13990013		
CH322-165B01	3R	16369099	16390099	located_end	16369099
		estimated_end	16390099		
CH322-165B02	2R	3957227	3978227	located_end	3957227
		estimated_end	3978227		
CH322-165B03	2R	3971369	3992369	estimated_end	3971369
		located_end	3992369		
CH322-165B05	2RHet	153114	174114	estimated_end	153114
		located_end	174114		
CH322-165B07	2L	9752853	9773853	estimated_end	9752853
		located_end	9773853		
CH322-165B16	2L	3660110	3681110	estimated_end	3660110
		located_end	3681110		
CH322-165B18	2L	21782480	21803480	located_end	21782480
		estimated_end	21803480		
CH322-165B22	X	18593386	18614386	estimated_end	18593386
		located_end	18614386		
CH322-165B24	3L	3363381	3384381	located_end	3363381
		estimated_end	3384381		
CH322-165C01	3L	10457427	10478427	located_end	10457427
		estimated_end	10478427		
CH322-165C03	2L	11329471	11350471	estimated_end	11329471
		located_end	11350471		
CH322-165C05	2R	6150596	6171596	estimated_end	6150596
		located_end	6171596		
CH322-165C06	2L	22900907	22921907	located_end	22900907
		estimated_end	22921907		
CH322-165C07	X	2448027	2469027	estimated_end	2448027
		located_end	2469027		
CH322-165C17	3R	24559850	24580850	located_end	24559850
		estimated_end	24580850		
CH322-165C21	3L	9222027	9243027	estimated_end	9222027
		located_end	9243027		
CH322-165C22	3R	21216257	21237257	located_end	21216257
		estimated_end	21237257		
CH322-165C23	3L	21435456	21456456	estimated_end	21435456
		located_end	21456456		
CH322-165C24	3R	58506 79506	58506	estimated_end	58506 located_end
					79506
CH322-165D06	3L	9180943	9201943	estimated_end	9180943
		located_end	9201943		
CH322-165D11	X	4666131	4687131	located_end	4666131
		estimated_end	4687131		
CH322-165D16	ArmU	4924542	4945542	estimated_end	4924542
		located_end	4945542		
CH322-165D17	2L	10097970	10118970	located_end	10097970
		estimated_end	10118970		
CH322-165D19	3R	17237083	17258083	located_end	17237083
		estimated_end	17258083		
CH322-165D21	3L	11031134	11052134	located_end	11031134
		estimated_end	11052134		

CH322-165D22	3R	12769020	12790020	estimated_end	12769020
		located_end	12790020		
CH322-165D23	2L	9861492	9882492	estimated_end	9861492
		located_end	9882492		
CH322-165E01	X	2743723	2764723	estimated_end	2743723
		located_end	2764723		
CH322-165E02	3R	23548933	23569933	estimated_end	23548933
		located_end	23569933		
CH322-165E04	4	268333	289333	estimated_end	268333
		located_end	289333		
CH322-165E06	X	20312048	20333048	estimated_end	20312048
		located_end	20333048		
CH322-165E08	2R	13372089	13393089	estimated_end	13372089
		located_end	13393089		
CH322-165E09	2L	3941909	3962909	estimated_end	3941909
		located_end	3962909		
CH322-165E10	2L	12179444	12200444	located_end	12179444
		estimated_end	12200444		
CH322-165E11	ArmU	964092	985092	estimated_end	964092
		located_end	985092		
CH322-165E15	3L	16115309	16136309	estimated_end	16115309
		located_end	16136309		
CH322-165E21	3R	13094057	13115057	located_end	13094057
		estimated_end	13115057		
CH322-165E22	3R	15942897	15963897	located_end	15942897
		estimated_end	15963897		
CH322-165E23	X	18110740	18131740	estimated_end	18110740
		located_end	18131740		
CH322-165F01	2R	6991991	7012991	located_end	6991991
		estimated_end	7012991		
CH322-165F03	3R	2548360	2569360	estimated_end	2548360
		located_end	2569360		
CH322-165F06	3R	23546448	23567448	located_end	23546448
		estimated_end	23567448		
CH322-165F08	3L	3907108	3928108	located_end	3907108
		estimated_end	3928108		
CH322-165F09	X	797205	818205	located_end	797205
		estimated_end	818205		
CH322-165F10	2R	19645390	19666390	located_end	19645390
		estimated_end	19666390		
CH322-165F11	2R	6792960	6813960	located_end	6792960
		estimated_end	6813960		
CH322-165F13	3R	17264918	17285918	located_end	17264918
		estimated_end	17285918		
CH322-165F15	X	16137223	16158223	located_end	16137223
		estimated_end	16158223		
CH322-165F16	2L	9293750	9314750	estimated_end	9293750
		located_end	9314750		
CH322-165F21	3L	9304421	9325421	located_end	9304421
		estimated_end	9325421		
CH322-165F22	2L	74279 95279	74279 95279	estimated_end	74279 95279
		located_end	74279 95279		
CH322-165F23	X	10121282	10142282	estimated_end	10121282
		located_end	10142282		

CH322-165F24	2L	13035111	13056111	estimated_end	13035111
		located_end	13056111		
CH322-165G01	3R	23028048	23049048	located_end	23028048
		estimated_end	23049048		
CH322-165G04	3L	11841837	11862837	located_end	11841837
		estimated_end	11862837		
CH322-165G06	2L	5015623	5036623	located_end	5015623
		estimated_end	5036623		
CH322-165G07	3L	10635966	10656966	estimated_end	10635966
		located_end	10656966		
CH322-165G09	3R	27847879	27868879	estimated_end	27847879
		located_end	27868879		
CH322-165G10	2L	10676843	10697843	estimated_end	10676843
		located_end	10697843		
CH322-165G12	3L	20917627	20938627	located_end	20917627
		estimated_end	20938627		
CH322-165G15	3L	15870676	15891676	located_end	15870676
		estimated_end	15891676		
CH322-165G18	X	20739761	20760761	located_end	20739761
		estimated_end	20760761		
CH322-165G20	3R	22769048	22790048	located_end	22769048
		estimated_end	22790048		
CH322-165G21	2L	17089351	17110351	located_end	17089351
		estimated_end	17110351		
CH322-165G22	3R	20552450	20573450	located_end	20552450
		estimated_end	20573450		
CH322-165G23	X	12446103	12467103	located_end	12446103
		estimated_end	12467103		
CH322-165G24	2L	19579459	19600459	estimated_end	19579459
		located_end	19600459		
CH322-165H01	2R	10673362	10694362	located_end	10673362
		estimated_end	10694362		
CH322-165H04	X	7385516	7406516	located_end	7385516
		estimated_end	7406516		
CH322-165H06	X	8109305	8130305	estimated_end	8109305
		located_end	8130305		
CH322-165H07	2L	7708524	7729524	located_end	7708524
		estimated_end	7729524		
CH322-165H08	2L	7748200	7769200	located_end	7748200
		estimated_end	7769200		
CH322-165H09	ArmU	9795956	9816956	located_end	9795956
		estimated_end	9816956		
CH322-165H11	2L	10013100	10034100	located_end	10013100
		estimated_end	10034100		
CH322-165H13	3L	11746164	11767164	estimated_end	11746164
		located_end	11767164		
CH322-165H21	X	2236559	2257559	estimated_end	2236559
		located_end	2257559		
CH322-165H23	2L	5243863	5264863	located_end	5243863
		estimated_end	5264863		
CH322-165H24	2R	9915450	9936450	located_end	9915450
		estimated_end	9936450		
CH322-165I01	3R	1505870	1526870	estimated_end	1505870
		located_end	1526870		

CH322-165I02	3L	9988318	10009318	estimated_end	9988318
		located_end	10009318		
CH322-165I09	3R	3854570	3875570	located_end	3854570
		estimated_end	3875570		
CH322-165I10	X	9038854	9059854	estimated_end	9038854
		located_end	9059854		
CH322-165I13	2L	10256982	10277982	located_end	10256982
		estimated_end	10277982		
CH322-165I16	2L	2511308	2532308	estimated_end	2511308
		located_end	2532308		
CH322-165I18	3R	19305394	19326394	estimated_end	19305394
		located_end	19326394		
CH322-165I21	2L	17596815	17617815	located_end	17596815
		estimated_end	17617815		
CH322-165I24	3L	21082683	21103683	located_end	21082683
		estimated_end	21103683		
CH322-165J08	2L	11442808	11463808	located_end	11442808
		estimated_end	11463808		
CH322-165J10	2RHet	132686	153686	estimated_end	132686
		located_end	153686		
CH322-165J11	3R	24516506	24537506	located_end	24516506
		estimated_end	24537506		
CH322-165J12	3R	16464409	16485409	estimated_end	16464409
		located_end	16485409		
CH322-165J18	X	14509442	14530442	located_end	14509442
		estimated_end	14530442		
CH322-165J19	2L	15113941	15134941	estimated_end	15113941
		located_end	15134941		
CH322-165J21	2R	7391239	7412239	estimated_end	7391239
		located_end	7412239		
CH322-165J23	X	14963318	14984318	located_end	14963318
		estimated_end	14984318		
CH322-165J24	3R	14750715	14771715	estimated_end	14750715
		located_end	14771715		
CH322-165K03	3R	1001823	1022823	estimated_end	1001823
		located_end	1022823		
CH322-165K04	3L	5084156	5105156	located_end	5084156
		estimated_end	5105156		
CH322-165K05	3R	1934709	1955709	estimated_end	1934709
		located_end	1955709		
CH322-165K06	X	19636277	19657277	estimated_end	19636277
		located_end	19657277		
CH322-165K09	3R	10840933	10861933	located_end	10840933
		estimated_end	10861933		
CH322-165K10	2L	14133074	14154074	located_end	14133074
		estimated_end	14154074		
CH322-165K11	3R	25068118	25089118	estimated_end	25068118
		located_end	25089118		
CH322-165K12	2L	13235891	13256891	estimated_end	13235891
		located_end	13256891		
CH322-165K14	3L	2822260	2843260	located_end	2822260
		estimated_end	2843260		
CH322-165K15	X	4308725	4329725	estimated_end	4308725
		located_end	4329725		

CH322-165K20	3L	7705901	7726901	located_end	7705901
		estimated_end	7726901		
CH322-165K21	3R	10851378	10872378	estimated_end	10851378
		located_end	10872378		
CH322-165K23	3L	6367709	6388709	located_end	6367709
		estimated_end	6388709		
CH322-165L03	3L	19845406	19866406	estimated_end	19845406
		located_end	19866406		
CH322-165L05	2R	14414631	14435631	estimated_end	14414631
		located_end	14435631		
CH322-165L06	3L	21247559	21268559	estimated_end	21247559
		located_end	21268559		
CH322-165L07	ArmU	8476874	8497874	located_end	8476874
		estimated_end	8497874		
CH322-165L08	X	7885199	7906199	located_end	7885199
		estimated_end	7906199		
CH322-165L11	3R	3632235	3653235	estimated_end	3632235
		located_end	3653235		
CH322-165L22	X	5967842	5988842	estimated_end	5967842
		located_end	5988842		
CH322-165L23	2R	9377908	9398908	estimated_end	9377908
		located_end	9398908		
CH322-165L24	2L	8717698	8738698	located_end	8717698
		estimated_end	8738698		
CH322-165M01	3R	14956719	14977719	located_end	14956719
		estimated_end	14977719		
CH322-165M02	2L	3690996	3711996	located_end	3690996
		estimated_end	3711996		
CH322-165M03	ArmU	180984	201984	located_end	180984
		estimated_end	201984		
CH322-165M04	2L	18288831	18309831	estimated_end	18288831
		located_end	18309831		
CH322-165M05	2R	4187115	4208115	estimated_end	4187115
		located_end	4208115		
CH322-165M10	X	5514638	5535638	located_end	5514638
		estimated_end	5535638		
CH322-165M13	3R	21027803	21048803	located_end	21027803
		estimated_end	21048803		
CH322-165M14	3L	2689837	2710837	located_end	2689837
		estimated_end	2710837		
CH322-165M16	3R	27530788	27551788	estimated_end	27530788
		located_end	27551788		
CH322-165M20	3R	1336641	1357641	located_end	1336641
		estimated_end	1357641		
CH322-165M21	3R	5917888	5938888	estimated_end	5917888
		located_end	5938888		
CH322-165M23	X	21997112	22018112	located_end	21997112
		estimated_end	22018112		
CH322-165N01	2R	20856521	20877521	estimated_end	20856521
		located_end	20877521		
CH322-165N02	3L	16595290	16616290	estimated_end	16595290
		located_end	16616290		
CH322-165N05	3R	9857381	9878381	estimated_end	9857381
		located_end	9878381		

CH322-165N07	3L	4935354	4956354	estimated_end	4935354
		located_end	4956354		
CH322-165N08	3L	8359728	8380728	located_end	8359728
		estimated_end	8380728		
CH322-165N09	3L	7108379	7129379	estimated_end	7108379
		located_end	7129379		
CH322-165N10	2R	11240527	11261527	estimated_end	11240527
		located_end	11261527		
CH322-165N11	2L	12607278	12628278	located_end	12607278
		estimated_end	12628278		
CH322-165N12	2R	2970397	2991397	located_end	2970397
		estimated_end	2991397		
CH322-165N13	2R	6617990	6638990	located_end	6617990
		estimated_end	6638990		
CH322-165N14	2R	168076	189076	located_end	168076
		estimated_end	189076		
CH322-165N17	2L	21725418	21746418	estimated_end	21725418
		located_end	21746418		
CH322-165N20	3R	14774169	14795169	estimated_end	14774169
		located_end	14795169		
CH322-165N21	2R	18287790	18308790	estimated_end	18287790
		located_end	18308790		
CH322-165N22	3R	980021	1001021	located_end	980021
		estimated_end	1001021		
CH322-165O04	3L	2107592	2128592	estimated_end	2107592
		located_end	2128592		
CH322-165O09	3L	10266768	10287768	located_end	10266768
		estimated_end	10287768		
CH322-165O12	3Rhet	1906370	1927370	estimated_end	1906370
		located_end	1927370		
CH322-165O13	2L	14908057	14929057	estimated_end	14908057
		located_end	14929057		
CH322-165O20	3L	7580014	7601014	located_end	7580014
		estimated_end	7601014		
CH322-165O21	2L	8571278	8592278	located_end	8571278
		estimated_end	8592278		
CH322-165O22	2L	8896995	8917995	located_end	8896995
		estimated_end	8917995		
CH322-165O24	3R	16143776	16164776	estimated_end	16143776
		located_end	16164776		
CH322-165P04	3L	14399241	14420241	estimated_end	14399241
		located_end	14420241		
CH322-165P05	2R	10135167	10156167	located_end	10135167
		estimated_end	10156167		
CH322-165P07	X	15093392	15114392	estimated_end	15093392
		located_end	15114392		
CH322-165P08	2R	10836886	10857886	located_end	10836886
		estimated_end	10857886		
CH322-165P10	3R	26836560	26857560	estimated_end	26836560
		located_end	26857560		
CH322-165P11	2L	5521846	5542846	located_end	5521846
		estimated_end	5542846		
CH322-165P13	2L	20420333	20441333	estimated_end	20420333
		located_end	20441333		

CH322-165P15	2L	2737953	2758953	located_end	2737953
		estimated_end	2758953		
CH322-165P16	2L	15732065	15753065	estimated_end	15732065
		located_end	15753065		
CH322-165P19	3R	13836173	13857173	located_end	13836173
		estimated_end	13857173		
CH322-165P20	3R	13702205	13723205	located_end	13702205
		estimated_end	13723205		
CH322-165P21	3L	11575847	11596847	located_end	11575847
		estimated_end	11596847		
CH322-165P22	3R	12389264	12410264	estimated_end	12389264
		located_end	12410264		
CH322-165P23	3R	14101741	14122741	estimated_end	14101741
		located_end	14122741		
CH322-166A04	3R	17998665	18019665	located_end	17998665
		estimated_end	18019665		
CH322-166A06	X	14241686	14262686	located_end	14241686
		estimated_end	14262686		
CH322-166B04	3R	1749 22749	estimated_end 1749	located_end	22749
CH322-166B12	3R	7491167	7512167	estimated_end	7491167
		located_end	7512167		
CH322-166B17	2L	20423194	20444194	located_end	20423194
		estimated_end	20444194		
CH322-166B18	2R	12334996	12355996	estimated_end	12334996
		located_end	12355996		
CH322-166B22	3R	14644635	14665635	estimated_end	14644635
		located_end	14665635		
CH322-166C02	X	10773886	10794886	located_end	10773886
		estimated_end	10794886		
CH322-166C07	3R	19888080	19909080	estimated_end	19888080
		located_end	19909080		
CH322-166C09	3R	23824667	23845667	estimated_end	23824667
		located_end	23845667		
CH322-166C10	X	20250460	20271460	estimated_end	20250460
		located_end	20271460		
CH322-166D02	2R	9550356	9571356	estimated_end	9550356
		located_end	9571356		
CH322-166D03	3R	6337373	6358373	located_end	6337373
		estimated_end	6358373		
CH322-166D04	2R	5826280	5847280	located_end	5826280
		estimated_end	5847280		
CH322-166D05	3L	2139684	2160684	estimated_end	2139684
		located_end	2160684		
CH322-166D06	3L	15493193	15514193	located_end	15493193
		estimated_end	15514193		
CH322-166D12	3L	1708904	1729904	located_end	1708904
		estimated_end	1729904		
CH322-166D13	3R	-11814	9186	estimated_end	-11814
		located_end	9186		
CH322-166E01	X	3212024	3233024	estimated_end	3212024
		located_end	3233024		
CH322-166E05	3R	23603384	23624384	located_end	23603384
		estimated_end	23624384		

CH322-166E12	3L	23641059	23662059	estimated_end	23641059
		located_end	23662059		
CH322-166E14	2R	19771351	19792351	located_end	19771351
		estimated_end	19792351		
CH322-166E24	3L	5936743	5957743	estimated_end	5936743
		located_end	5957743		
CH322-166F04	3L	17263518	17284518	located_end	17263518
		estimated_end	17284518		
CH322-166F12	X	2483505	2504505	estimated_end	2483505
		located_end	2504505		
CH322-166F19	3R	20300591	20321591	located_end	20300591
		estimated_end	20321591		
CH322-166G02	3L	18250769	18271769	located_end	18250769
		estimated_end	18271769		
CH322-166G05	2R	14198713	14219713	estimated_end	14198713
		located_end	14219713		
CH322-166G06	3R	27568522	27589522	estimated_end	27568522
		located_end	27589522		
CH322-166G13	2L	1084792	1105792	estimated_end	1084792
		located_end	1105792		
CH322-166H01	4	897478	918478	estimated_end	897478
		located_end	918478		
CH322-166H02	2R	17715850	17736850	estimated_end	17715850
		located_end	17736850		
CH322-166H03	3R	11702955	11723955	located_end	11702955
		estimated_end	11723955		
CH322-166H05	2L	4421274	4442274	estimated_end	4421274
		located_end	4442274		
CH322-166H08	3L	19948489	19969489	located_end	19948489
		estimated_end	19969489		
CH322-166H13	3L	3623605	3644605	located_end	3623605
		estimated_end	3644605		
CH322-166H14	3R	3293946	3314946	located_end	3293946
		estimated_end	3314946		
CH322-166H17	ArmU	5677681	5698681	estimated_end	5677681
		located_end	5698681		
CH322-166H23	4	1259220	1280220	located_end	1259220
		estimated_end	1280220		
CH322-166I10	3R	8661080	8682080	located_end	8661080
		estimated_end	8682080		
CH322-166I24	X	16237393	16258393	estimated_end	16237393
		located_end	16258393		
CH322-166J01	2R	18505889	18526889	estimated_end	18505889
		located_end	18526889		
CH322-166J02	2L	3181221	3202221	located_end	3181221
		estimated_end	3202221		
CH322-166J09	2L	15529983	15550983	estimated_end	15529983
		located_end	15550983		
CH322-166J11	2L	16549057	16570057	estimated_end	16549057
		located_end	16570057		
CH322-166J13	2R	17157980	17178980	located_end	17157980
		estimated_end	17178980		
CH322-166K03	X	8793581	8814581	estimated_end	8793581
		located_end	8814581		

CH322-166K12	3L	6413074	6434074	estimated_end	6413074
		located_end	6434074		
CH322-166K14	3L	4810215	4831215	estimated_end	4810215
		located_end	4831215		
CH322-166K24	2R	14482606	14503606	estimated_end	14482606
		located_end	14503606		
CH322-166L06	3R	27699670	27720670	located_end	27699670
		estimated_end	27720670		
CH322-166L09	3R	537149	558149	estimated_end	537149
		located_end	558149		
CH322-166L14	3R	26587120	26608120	estimated_end	26587120
		located_end	26608120		
CH322-166L20	2L	15253829	15274829	located_end	15253829
		estimated_end	15274829		
CH322-166L24	X	12620023	12641023	located_end	12620023
		estimated_end	12641023		
CH322-166M02	X	10608294	10629294	located_end	10608294
		estimated_end	10629294		
CH322-166M03	XHet	69834 90834	located_end 69834	estimated_end	90834
CH322-166M06	2R	10465747	10486747	located_end	10465747
		estimated_end	10486747		
CH322-166M07	3L	12879037	12900037	located_end	12879037
		estimated_end	12900037		
CH322-166M12	3R	9769122	9790122	located_end	9769122
		estimated_end	9790122		
CH322-166M16	2R	2349331	2370331	located_end	2349331
		estimated_end	2370331		
CH322-166M21	2L	18499372	18520372	estimated_end	18499372
		located_end	18520372		
CH322-166M24	X	9807909	9828909	estimated_end	9807909
		located_end	9828909		
CH322-166N06	3L	21788618	21809618	located_end	21788618
		estimated_end	21809618		
CH322-166N07	2L	2382774	2403774	estimated_end	2382774
		located_end	2403774		
CH322-166N09	X	5394344	5415344	located_end	5394344
		estimated_end	5415344		
CH322-166N13	3L	19462236	19483236	estimated_end	19462236
		located_end	19483236		
CH322-166N18	2R	7437119	7458119	estimated_end	7437119
		located_end	7458119		
CH322-166N24	3L	21670277	21691277	located_end	21670277
		estimated_end	21691277		
CH322-166O01	2R	18970838	18991838	estimated_end	18970838
		located_end	18991838		
CH322-166O04	3L	6984360	7005360	estimated_end	6984360
		located_end	7005360		
CH322-166O09	4	1045700	1066700	located_end	1045700
		estimated_end	1066700		
CH322-166O10	3R	7044712	7065712	estimated_end	7044712
		located_end	7065712		
CH322-166O14	2RHet	1473494	1494494	located_end	1473494
		estimated_end	1494494		

CH322-166P04	ArmU	7452707	7473707	estimated_end	7452707
		located_end	7473707		
CH322-166P09	3R	24476921	24497921	located_end	24476921
		estimated_end	24497921		
CH322-166P11	2R	18429688	18450688	estimated_end	18429688
		located_end	18450688		
CH322-166P20	2L	20539705	20560705	located_end	20539705
		estimated_end	20560705		
CH322-166P22	2L	12284808	12305808	estimated_end	12284808
		located_end	12305808		
CH322-166P24	2L	1657891	1678891	estimated_end	1657891
		located_end	1678891		
CH322-167A22	3R	14179198	14200198	estimated_end	14179198
		located_end	14200198		
CH322-167A23	3R	814047	835047	located_end	814047
		estimated_end	835047		
CH322-167B08	2R	12585732	12606732	located_end	12585732
		estimated_end	12606732		
CH322-167B14	X	12324958	12345958	estimated_end	12324958
		located_end	12345958		
CH322-167C07	2R	6412030	6433030	located_end	6412030
		estimated_end	6433030		
CH322-167C13	2R	5259331	5280331	estimated_end	5259331
		located_end	5280331		
CH322-167C19	3R	25161864	25182864	estimated_end	25161864
		located_end	25182864		
CH322-167C21	2R	15886110	15907110	estimated_end	15886110
		located_end	15907110		
CH322-167C24	2L	10772051	10793051	estimated_end	10772051
		located_end	10793051		
CH322-167D03	2L	10507469	10528469	located_end	10507469
		estimated_end	10528469		
CH322-167D05	2RHet	722969	743969	located_end	722969
		estimated_end	743969		
CH322-167D12	2R	9103181	9124181	estimated_end	9103181
		located_end	9124181		
CH322-167D13	X	6581372	6602372	located_end	6581372
		estimated_end	6602372		
CH322-167D19	3L	1160905	1181905	estimated_end	1160905
		located_end	1181905		
CH322-167D20	3R	21407557	21428557	located_end	21407557
		estimated_end	21428557		
CH322-167E02	2L	7388961	7409961	located_end	7388961
		estimated_end	7409961		
CH322-167E09	2R	963226	984226	estimated_end	963226
		located_end	984226		
CH322-167E15	2L	17125406	17146406	located_end	17125406
		estimated_end	17146406		
CH322-167E17	X	20807090	20828090	located_end	20807090
		estimated_end	20828090		
CH322-167E20	2L	10608986	10629986	located_end	10608986
		estimated_end	10629986		
CH322-167F06	3R	10728060	10749060	estimated_end	10728060
		located_end	10749060		

CH322-167F16	3R	18334273	18355273	located_end	18334273
		estimated_end	18355273		
CH322-167F20	3L	13262995	13283995	located_end	13262995
		estimated_end	13283995		
CH322-167F21	X	20505409	20526409	located_end	20505409
		estimated_end	20526409		
CH322-167F22	3L	8930167	8951167	estimated_end	8930167
		located_end	8951167		
CH322-167G06	X	2669820	2690820	estimated_end	2669820
		located_end	2690820		
CH322-167G14	3L	4956104	4977104	located_end	4956104
		estimated_end	4977104		
CH322-167G15	2R	1687399	1708399	estimated_end	1687399
		located_end	1708399		
CH322-167H09	3L	548614	569614	estimated_end	548614
		located_end	569614		
CH322-167H10	2L	13593226	13614226	estimated_end	13593226
		located_end	13614226		
CH322-167H12	3R	24438032	24459032	located_end	24438032
		estimated_end	24459032		
CH322-167H19	2R	1616607	1637607	estimated_end	1616607
		located_end	1637607		
CH322-167H21	3L	8714505	8735505	estimated_end	8714505
		located_end	8735505		
CH322-167H22	3L	20271613	20292613	located_end	20271613
		estimated_end	20292613		
CH322-167H23	3L	21126596	21147596	located_end	21126596
		estimated_end	21147596		
CH322-167I01	ArmU	9775223	9796223	estimated_end	9775223
		located_end	9796223		
CH322-167I08	X	14241612	14262612	located_end	14241612
		estimated_end	14262612		
CH322-167I09	X	17842955	17863955	located_end	17842955
		estimated_end	17863955		
CH322-167I10	2RHet	2612271	2633271	estimated_end	2612271
		located_end	2633271		
CH322-167I11	2L	4161629	4182629	located_end	4161629
		estimated_end	4182629		
CH322-167I13	2R	16616578	16637578	located_end	16616578
		estimated_end	16637578		
CH322-167I14	3R	20929511	20950511	located_end	20929511
		estimated_end	20950511		
CH322-167I15	2L	13590545	13611545	estimated_end	13590545
		located_end	13611545		
CH322-167I18	2L	6879916	6900916	estimated_end	6879916
		located_end	6900916		
CH322-167I23	2RHet	2833760	2854760	located_end	2833760
		estimated_end	2854760		
CH322-167I24	X	4126684	4147684	located_end	4126684
		estimated_end	4147684		
CH322-167J09	3R	15389131	15410131	located_end	15389131
		estimated_end	15410131		
CH322-167J12	3L	6328704	6349704	estimated_end	6328704
		located_end	6349704		

CH322-167J16	2R	18163795	18184795	estimated_end	18163795
		located_end	18184795		
CH322-167J18	3R	26868260	26889260	located_end	26868260
		estimated_end	26889260		
CH322-167J20	2L	11151514	11172514	located_end	11151514
		estimated_end	11172514		
CH322-167J21	3L	12093502	12114502	located_end	12093502
		estimated_end	12114502		
CH322-167J22	3R	9061683	9082683	estimated_end	9061683
		located_end	9082683		
CH322-167K03	3L	4035081	4056081	located_end	4035081
		estimated_end	4056081		
CH322-167K04	X	10279644	10300644	located_end	10279644
		estimated_end	10300644		
CH322-167K09	3L	14340513	14361513	located_end	14340513
		estimated_end	14361513		
CH322-167K10	ArmU	3394335	3415335	located_end	3394335
		estimated_end	3415335		
CH322-167K11	X	5229668	5250668	estimated_end	5229668
		located_end	5250668		
CH322-167K13	3L	15292691	15313691	estimated_end	15292691
		located_end	15313691		
CH322-167K19	4	1058933	1079933	located_end	1058933
		estimated_end	1079933		
CH322-167K21	3L	6497719	6518719	estimated_end	6497719
		located_end	6518719		
CH322-167K23	3LHet	383368	404368	estimated_end	383368
		located_end	404368		
CH322-167K24	2R	9187500	9208500	located_end	9187500
		estimated_end	9208500		
CH322-167L02	2R	13180616	13201616	estimated_end	13180616
		located_end	13201616		
CH322-167L03	3R	2559131	2580131	estimated_end	2559131
		located_end	2580131		
CH322-167L06	2L	1873197	1894197	located_end	1873197
		estimated_end	1894197		
CH322-167L09	2R	2862128	2883128	located_end	2862128
		estimated_end	2883128		
CH322-167L10	3L	19772219	19793219	located_end	19772219
		estimated_end	19793219		
CH322-167L16	3R	8860158	8881158	located_end	8860158
		estimated_end	8881158		
CH322-167L20	X	13963371	13984371	estimated_end	13963371
		located_end	13984371		
CH322-167L21	3L	4631132	4652132	estimated_end	4631132
		located_end	4652132		
CH322-167L22	3R	19598903	19619903	estimated_end	19598903
		located_end	19619903		
CH322-167L23	3R	13214574	13235574	estimated_end	13214574
		located_end	13235574		
CH322-167L24	3R	17546375	17567375	located_end	17546375
		estimated_end	17567375		
CH322-167M03	2R	6072122	6093122	estimated_end	6072122
		located_end	6093122		

CH322-167M05	2L	6283310	6304310	estimated_end	6283310
		located_end	6304310		
CH322-167M06	3R	26963007	26984007	estimated_end	26963007
		located_end	26984007		
CH322-167M12	3R	23662100	23683100	located_end	23662100
		estimated_end	23683100		
CH322-167M15	2L	933666	954666	located_end	933666
		estimated_end	954666		
CH322-167M16	2L	9486476	9507476	located_end	9486476
		estimated_end	9507476		
CH322-167M18	3L	19810775	19831775	estimated_end	19810775
		located_end	19831775		
CH322-167M19	ArmU	8178289	8199289	located_end	8178289
		estimated_end	8199289		
CH322-167M22	X	16782174	16803174	estimated_end	16782174
		located_end	16803174		
CH322-167M23	2L	12981889	13002889	located_end	12981889
		estimated_end	13002889		
CH322-167N05	2L	2862600	2883600	estimated_end	2862600
		located_end	2883600		
CH322-167N08	2L	274814	295814	estimated_end	274814
		located_end	295814		
CH322-167N12	3R	8615152	8636152	located_end	8615152
		estimated_end	8636152		
CH322-167N13	3L	9777548	9798548	located_end	9777548
		estimated_end	9798548		
CH322-167N14	3R	19023621	19044621	estimated_end	19023621
		located_end	19044621		
CH322-167N15	X	6265224	6286224	estimated_end	6265224
		located_end	6286224		
CH322-167N16	4	664066	685066	located_end	664066
		estimated_end	685066		
CH322-167N18	2L	18728078	18749078	estimated_end	18728078
		located_end	18749078		
CH322-167N19	3L	17396317	17417317	estimated_end	17396317
		located_end	17417317		
CH322-167N20	2L	18898696	18919696	estimated_end	18898696
		located_end	18919696		
CH322-167N21	3R	11314003	11335003	estimated_end	11314003
		located_end	11335003		
CH322-167N22	X	10518647	10539647	estimated_end	10518647
		located_end	10539647		
CH322-167N23	X	7681418	7702418	located_end	7681418
		estimated_end	7702418		
CH322-167O01	ArmU	9684990	9705990	estimated_end	9684990
		located_end	9705990		
CH322-167O04	3R	8700047	8721047	estimated_end	8700047
		located_end	8721047		
CH322-167O05	3L	6290634	6311634	estimated_end	6290634
		located_end	6311634		
CH322-167O08	2R	265452	286452	estimated_end	265452
		located_end	286452		
CH322-167O13	2R	8833840	8854840	located_end	8833840
		estimated_end	8854840		

CH322-167014	3R	22102596	22123596	located_end	22102596
		estimated_end	22123596		
CH322-167015	4	673692	694692	located_end	673692
		estimated_end	694692		
CH322-167016	2R	19790591	19811591	estimated_end	19790591
		located_end	19811591		
CH322-167017	3R	4581027	4602027	estimated_end	4581027
		located_end	4602027		
CH322-167018	X	14662889	14683889	estimated_end	14662889
		located_end	14683889		
CH322-167019	3R	25198735	25219735	located_end	25198735
		estimated_end	25219735		
CH322-167020	3RHet	180119	201119	estimated_end	180119
		located_end	201119		
CH322-167P04	2R	1070688	1091688	estimated_end	1070688
		located_end	1091688		
CH322-167P08	3R	14376761	14397761	located_end	14376761
		estimated_end	14397761		
CH322-167P13	X	20576363	20597363	estimated_end	20576363
		located_end	20597363		
CH322-167P14	3R	21549153	21570153	located_end	21549153
		estimated_end	21570153		
CH322-167P16	2R	8007389	8028389	estimated_end	8007389
		located_end	8028389		
CH322-167P20	3R	20159732	20180732	located_end	20159732
		estimated_end	20180732		
CH322-168A03	3L	20144998	20165998	estimated_end	20144998
		located_end	20165998		
CH322-168A06	3R	19288672	19309672	located_end	19288672
		estimated_end	19309672		
CH322-168A07	3R	9393031	9414031	estimated_end	9393031
		located_end	9414031		
CH322-168A09	2L	2378258	2399258	estimated_end	2378258
		located_end	2399258		
CH322-168A11	2R	10681087	10702087	located_end	10681087
		estimated_end	10702087		
CH322-168A12	2L	18419818	18440818	estimated_end	18419818
		located_end	18440818		
CH322-168A16	2R	4729517	4750517	located_end	4729517
		estimated_end	4750517		
CH322-168A21	3RHet	619463	640463	estimated_end	619463
		located_end	640463		
CH322-168A23	3R	8013769	8034769	located_end	8013769
		estimated_end	8034769		
CH322-168B08	3L	18985508	19006508	located_end	18985508
		estimated_end	19006508		
CH322-168B12	3R	14026179	14047179	estimated_end	14026179
		located_end	14047179		
CH322-168B13	2R	4692507	4713507	estimated_end	4692507
		located_end	4713507		
CH322-168B15	3L	8907980	8928980	located_end	8907980
		estimated_end	8928980		
CH322-168B16	3R	5623451	5644451	estimated_end	5623451
		located_end	5644451		

CH322-168B17	2L	8722645	8743645	located_end	8722645
		estimated_end	8743645		
CH322-168B20	2R	17930472	17951472	estimated_end	17930472
		located_end	17951472		
CH322-168B23	2L	9017495	9038495	located_end	9017495
		estimated_end	9038495		
CH322-168B24	3L	1874503	1895503	located_end	1874503
		estimated_end	1895503		
CH322-168C03	2L	6740134	6761134	located_end	6740134
		estimated_end	6761134		
CH322-168C04	2L	22009538	22030538	estimated_end	22009538
		located_end	22030538		
CH322-168C21	3R	26481009	26502009	located_end	26481009
		estimated_end	26502009		
CH322-168D05	X	902088	923088	located_end	902088
		estimated_end	923088		
CH322-168D08	X	7999511	8020511	estimated_end	7999511
		located_end	8020511		
CH322-168D16	2R	10679721	10700721	estimated_end	10679721
		located_end	10700721		
CH322-168D19	2R	19296500	19317500	estimated_end	19296500
		located_end	19317500		
CH322-168E03	2L	17011881	17032881	located_end	17011881
		estimated_end	17032881		
CH322-168E05	3R	27716103	27737103	estimated_end	27716103
		located_end	27737103		
CH322-168E07	2L	2183683	2204683	estimated_end	2183683
		located_end	2204683		
CH322-168E11	X	17206489	17227489	estimated_end	17206489
		located_end	17227489		
CH322-168E19	3R	27737215	27758215	located_end	27737215
		estimated_end	27758215		
CH322-168E20	X	8609457	8630457	located_end	8609457
		estimated_end	8630457		
CH322-168F03	2L	17739956	17760956	estimated_end	17739956
		located_end	17760956		
CH322-168F08	2L	335997	356997	estimated_end	335997
		located_end	356997		
CH322-168F14	3L	20026583	20047583	located_end	20026583
		estimated_end	20047583		
CH322-168F18	3LHet	241494	262494	located_end	241494
		estimated_end	262494		
CH322-168F23	3L	7673325	7694325	estimated_end	7673325
		located_end	7694325		
CH322-168F24	X	11548574	11569574	estimated_end	11548574
		located_end	11569574		
CH322-168G01	3R	23018809	23039809	located_end	23018809
		estimated_end	23039809		
CH322-168G05	3L	17657674	17678674	located_end	17657674
		estimated_end	17678674		
CH322-168G09	3L	14513376	14534376	estimated_end	14513376
		located_end	14534376		
CH322-168G13	2L	9512111	9533111	located_end	9512111
		estimated_end	9533111		

CH322-168G15	2LHet	50142	71142	located_end	50142	estimated_end	71142
CH322-168G17	3LHet	1500616	1521616	located_end	1500616	estimated_end	1521616
CH322-168G19	X	7870619	7891619	estimated_end	7870619	located_end	7891619
CH322-168G21	2R	5771083	5792083	located_end	5771083	estimated_end	5792083
CH322-168H02	X	3250840	3271840	located_end	3250840	estimated_end	3271840
CH322-168H04	2R	2404674	2425674	estimated_end	2404674	located_end	2425674
CH322-168H06	X	5542045	5563045	estimated_end	5542045	located_end	5563045
CH322-168H07	ArmU	5697307	5718307	located_end	5697307	estimated_end	5718307
CH322-168H09	2R	8948571	8969571	estimated_end	8948571	located_end	8969571
CH322-168H11	2R	17819325	17840325	estimated_end	17819325	located_end	17840325
CH322-168H14	X	3269429	3290429	estimated_end	3269429	located_end	3290429
CH322-168H16	X	19265844	19286844	located_end	19265844	estimated_end	19286844
CH322-168H18	3R	18923720	18944720	located_end	18923720	estimated_end	18944720
CH322-168H19	2L	2345050	2366050	estimated_end	2345050	located_end	2366050
CH322-168H20	2L	10610006	10631006	estimated_end	10610006	located_end	10631006
CH322-168I07	2L	13669718	13690718	located_end	13669718	estimated_end	13690718
CH322-168I08	3R	25261712	25282712	located_end	25261712	estimated_end	25282712
CH322-168I09	3R	20783339	20804339	estimated_end	20783339	located_end	20804339
CH322-168I17	3R	23229229	23250229	located_end	23229229	estimated_end	23250229
CH322-168I19	2L	3376140	3397140	estimated_end	3376140	located_end	3397140
CH322-168I21	3RHet	715165	736165	estimated_end	715165	located_end	736165
CH322-168J05	ArmU	37975	58975	located_end	37975	estimated_end	58975
CH322-168J08	2R	14981841	15002841	located_end	14981841	estimated_end	15002841
CH322-168J09	X	12812400	12833400	located_end	12812400	estimated_end	12833400
CH322-168J10	3L	21483297	21504297	located_end	21483297	estimated_end	21504297
CH322-168J16	X	20178173	20199173	estimated_end	20178173	located_end	20199173
CH322-168J17	3L	4292884	4313884	estimated_end	4292884	located_end	4313884

CH322-168J19	2L	21777923	21798923	estimated_end	21777923
		located_end	21798923		
CH322-168J20	3L	6460318	6481318	estimated_end	6460318
		located_end	6481318		
CH322-168J24	2RHet	3216210	3237210	located_end	3216210
		estimated_end	3237210		
CH322-168K02	2R	7306935	7327935	located_end	7306935
		estimated_end	7327935		
CH322-168K05	2L	11009328	11030328	estimated_end	11009328
		located_end	11030328		
CH322-168K12	3L	13130669	13151669	estimated_end	13130669
		located_end	13151669		
CH322-168K17	3R	7835710	7856710	located_end	7835710
		estimated_end	7856710		
CH322-168L07	3R	19731884	19752884	estimated_end	19731884
		located_end	19752884		
CH322-168L15	3R	18658680	18679680	estimated_end	18658680
		located_end	18679680		
CH322-168L18	2L	3829645	3850645	located_end	3829645
		estimated_end	3850645		
CH322-168L19	3R	23918939	23939939	estimated_end	23918939
		located_end	23939939		
CH322-168M04	4	398076	419076	located_end	398076
		estimated_end	419076		
CH322-168M06	3LHet	508067	529067	located_end	508067
		estimated_end	529067		
CH322-168M11	2L	13414145	13435145	located_end	13414145
		estimated_end	13435145		
CH322-168M13	ArmU	229698	250698	located_end	229698
		estimated_end	250698		
CH322-168M14	3R	9408040	9429040	located_end	9408040
		estimated_end	9429040		
CH322-168M17	2R	4718325	4739325	located_end	4718325
		estimated_end	4739325		
CH322-168M19	3L	6498285	6519285	estimated_end	6498285
		located_end	6519285		
CH322-168N03	2RHet	480865	501865	located_end	480865
		estimated_end	501865		
CH322-168N04	3R	7874800	7895800	estimated_end	7874800
		located_end	7895800		
CH322-168N05	2RHet	39465 60465	estimated_end	39465	located_end
		60465			
CH322-168N07	2R	11185891	11206891	located_end	11185891
		estimated_end	11206891		
CH322-168N08	3L	22906281	22927281	located_end	22906281
		estimated_end	22927281		
CH322-168N17	2L	13761517	13782517	located_end	13761517
		estimated_end	13782517		
CH322-168N18	X	6433849	6454849	estimated_end	6433849
		located_end	6454849		
CH322-168O01	3R	12487717	12508717	located_end	12487717
		estimated_end	12508717		
CH322-168O04	X	9643557	9664557	estimated_end	9643557
		located_end	9664557		

CH322-168005	2R	5803358	5824358	estimated_end	5803358
		located_end	5824358		
CH322-168017	2L	9077832	9098832	estimated_end	9077832
		located_end	9098832		
CH322-168P03	2L	12167688	12188688	estimated_end	12167688
		located_end	12188688		
CH322-168P04	2RHet	2821402	2842402	located_end	2821402
		estimated_end	2842402		
CH322-168P08	2R	20263443	20284443	located_end	20263443
		estimated_end	20284443		
CH322-168P12	2R	6414044	6435044	located_end	6414044
		estimated_end	6435044		
CH322-168P21	3L	15261368	15282368	estimated_end	15261368
		located_end	15282368		
CH322-169A02	2L	1083859	1104859	estimated_end	1083859
		located_end	1104859		
CH322-169A05	3R	14650683	14671683	located_end	14650683
		estimated_end	14671683		
CH322-169A09	3R	13038560	13059560	located_end	13038560
		estimated_end	13059560		
CH322-169A12	2L	15537223	15558223	estimated_end	15537223
		located_end	15558223		
CH322-169A15	3L	8348473	8369473	estimated_end	8348473
		located_end	8369473		
CH322-169A16	2L	7760741	7781741	estimated_end	7760741
		located_end	7781741		
CH322-169A19	2L	12452786	12473786	located_end	12452786
		estimated_end	12473786		
CH322-169A20	3L	11266615	11287615	located_end	11266615
		estimated_end	11287615		
CH322-169A24	X	4697654	4718654	located_end	4697654
		estimated_end	4718654		
CH322-169B02	2L	19990539	20011539	located_end	19990539
		estimated_end	20011539		
CH322-169B06	2L	17662794	17683794	estimated_end	17662794
		located_end	17683794		
CH322-169B07	2L	22121266	22142266	located_end	22121266
		estimated_end	22142266		
CH322-169B10	2L	2848873	2869873	located_end	2848873
		estimated_end	2869873		
CH322-169B12	2L	15808385	15829385	located_end	15808385
		estimated_end	15829385		
CH322-169B16	2L	6105330	6126330	estimated_end	6105330
		located_end	6126330		
CH322-169B18	X	19024180	19045180	estimated_end	19024180
		located_end	19045180		
CH322-169B20	X	15589142	15610142	estimated_end	15589142
		located_end	15610142		
CH322-169B21	2L	12921128	12942128	estimated_end	12921128
		located_end	12942128		
CH322-169B22	2L	15832409	15853409	estimated_end	15832409
		located_end	15853409		
CH322-169B23	3L	2930006	2951006	estimated_end	2930006
		located_end	2951006		

CH322-169B24	2L	5159215	5180215	located_end	5159215
		estimated_end	5180215		
CH322-169C08	4	374930	395930	estimated_end	374930
		located_end	395930		
CH322-169C12	X	8150201	8171201	located_end	8150201
		estimated_end	8171201		
CH322-169C13	2R	8660355	8681355	located_end	8660355
		estimated_end	8681355		
CH322-169C18	3RHet	1081139	1102139	estimated_end	1081139
		located_end	1102139		
CH322-169D01	3L	1887622	1908622	estimated_end	1887622
		located_end	1908622		
CH322-169D12	3L	15223215	15244215	estimated_end	15223215
		located_end	15244215		
CH322-169D13	2L	8125331	8146331	located_end	8125331
		estimated_end	8146331		
CH322-169D20	3L	7002103	7023103	located_end	7002103
		estimated_end	7023103		
CH322-169E01	X	5074508	5095508	estimated_end	5074508
		located_end	5095508		
CH322-169E02	3L	11416438	11437438	estimated_end	11416438
		located_end	11437438		
CH322-169E03	3R	16005777	16026777	estimated_end	16005777
		located_end	16026777		
CH322-169E14	ArmU	4182656	4203656	located_end	4182656
		estimated_end	4203656		
CH322-169E16	3R	9321781	9342781	estimated_end	9321781
		located_end	9342781		
CH322-169E19	3R	24116644	24137644	estimated_end	24116644
		located_end	24137644		
CH322-169E22	2L	18615796	18636796	located_end	18615796
		estimated_end	18636796		
CH322-169F11	2L	7490515	7511515	estimated_end	7490515
		located_end	7511515		
CH322-169F12	3RHet	143838	164838	located_end	143838
		estimated_end	164838		
CH322-169F24	3LHet	2424938	2445938	located_end	2424938
		estimated_end	2445938		
CH322-169G02	3R	8541128	8562128	located_end	8541128
		estimated_end	8562128		
CH322-169G08	ArmU	5098609	5119609	located_end	5098609
		estimated_end	5119609		
CH322-169G11	2R	16849232	16870232	located_end	16849232
		estimated_end	16870232		
CH322-169G12	2R	13195383	13216383	located_end	13195383
		estimated_end	13216383		
CH322-169G13	ArmU	3534320	3555320	estimated_end	3534320
		located_end	3555320		
CH322-169G21	3L	15149341	15170341	located_end	15149341
		estimated_end	15170341		
CH322-169G23	3L	8722231	8743231	estimated_end	8722231
		located_end	8743231		
CH322-169G24	3R	11755956	11776956	estimated_end	11755956
		located_end	11776956		

CH322-169H01	X	14815517	14836517	located_end	14815517
		estimated_end	14836517		
CH322-169H04	2L	11882346	11903346	located_end	11882346
		estimated_end	11903346		
CH322-169H06	3R	17167422	17188422	estimated_end	17167422
		located_end	17188422		
CH322-169H09	2L	19514632	19535632	located_end	19514632
		estimated_end	19535632		
CH322-169H12	2R	14569178	14590178	estimated_end	14569178
		located_end	14590178		
CH322-169H20	3L	22075872	22096872	located_end	22075872
		estimated_end	22096872		
CH322-169H24	2L	15948239	15969239	estimated_end	15948239
		located_end	15969239		
CH322-169I02	3L	13053846	13074846	estimated_end	13053846
		located_end	13074846		
CH322-169I05	ArmU	5697737	5718737	located_end	5697737
		estimated_end	5718737		
CH322-169I07	3R	23527726	23548726	located_end	23527726
		estimated_end	23548726		
CH322-169I08	3R	22288607	22309607	located_end	22288607
		estimated_end	22309607		
CH322-169I10	3L	2006363	2027363	located_end	2006363
		estimated_end	2027363		
CH322-169I13	3L	18914121	18935121	estimated_end	18914121
		located_end	18935121		
CH322-169I14	3LHet	2428001	2449001	estimated_end	2428001
		located_end	2449001		
CH322-169I15	3L	14043638	14064638	estimated_end	14043638
		located_end	14064638		
CH322-169I17	2L	14135353	14156353	located_end	14135353
		estimated_end	14156353		
CH322-169J03	3L	7407586	7428586	located_end	7407586
		estimated_end	7428586		
CH322-169J04	3L	10875106	10896106	estimated_end	10875106
		located_end	10896106		
CH322-169J13	3L	18258889	18279889	estimated_end	18258889
		located_end	18279889		
CH322-169K02	2L	14082138	14103138	estimated_end	14082138
		located_end	14103138		
CH322-169K03	3R	20861253	20882253	located_end	20861253
		estimated_end	20882253		
CH322-169K07	X	12305480	12326480	located_end	12305480
		estimated_end	12326480		
CH322-169K08	3L	9275382	9296382	estimated_end	9275382
		located_end	9296382		
CH322-169K10	X	21137122	21158122	located_end	21137122
		estimated_end	21158122		
CH322-169K12	3L	19361421	19382421	estimated_end	19361421
		located_end	19382421		
CH322-169K15	2R	5241529	5262529	estimated_end	5241529
		located_end	5262529		
CH322-169L06	3L	1291105	1312105	located_end	1291105
		estimated_end	1312105		

CH322-169L09	X	9307256	9328256	estimated_end	9307256
		located_end	9328256		
CH322-169L14	X	10836167	10857167	estimated_end	10836167
		located_end	10857167		
CH322-169L22	2R	11966509	11987509	estimated_end	11966509
		located_end	11987509		
CH322-169L23	3R	13809324	13830324	located_end	13809324
		estimated_end	13830324		
CH322-169L24	3L	18159257	18180257	estimated_end	18159257
		located_end	18180257		
CH322-169M02	3L	2406263	2427263	located_end	2406263
		estimated_end	2427263		
CH322-169M04	3L	8710682	8731682	located_end	8710682
		estimated_end	8731682		
CH322-169M06	3R	3263976	3284976	estimated_end	3263976
		located_end	3284976		
CH322-169M07	2L	11063874	11084874	estimated_end	11063874
		located_end	11084874		
CH322-169M14	2R	4064006	4085006	located_end	4064006
		estimated_end	4085006		
CH322-169M15	3L	3799843	3820843	located_end	3799843
		estimated_end	3820843		
CH322-169M17	3R	9553355	9574355	located_end	9553355
		estimated_end	9574355		
CH322-169M21	2L	9401047	9422047	located_end	9401047
		estimated_end	9422047		
CH322-169M23	2R	13155976	13176976	estimated_end	13155976
		located_end	13176976		
CH322-169M24	X	14311156	14332156	estimated_end	14311156
		located_end	14332156		
CH322-169N06	3L	10763385	10784385	estimated_end	10763385
		located_end	10784385		
CH322-169N07	3R	10185713	10206713	located_end	10185713
		estimated_end	10206713		
CH322-169N12	2L	8338221	8359221	located_end	8338221
		estimated_end	8359221		
CH322-169N14	3R	14420623	14441623	located_end	14420623
		estimated_end	14441623		
CH322-169N16	3R	5347100	5368100	located_end	5347100
		estimated_end	5368100		
CH322-169N18	3L	8416429	8437429	estimated_end	8416429
		located_end	8437429		
CH322-169O01	2R	15649899	15670899	estimated_end	15649899
		located_end	15670899		
CH322-169O02	3LHet	538544	559544	located_end	538544
		estimated_end	559544		
CH322-169O04	3L	5392832	5413832	located_end	5392832
		estimated_end	5413832		
CH322-169O06	3R	18840836	18861836	located_end	18840836
		estimated_end	18861836		
CH322-169O09	3L	6867879	6888879	located_end	6867879
		estimated_end	6888879		
CH322-169O14	2L	17177413	17198413	estimated_end	17177413
		located_end	17198413		

CH322-169O21	2L	19452299	19473299	estimated_end	19452299
		located_end	19473299		
CH322-169O23	2L	4761729	4782729	located_end	4761729
		estimated_end	4782729		
CH322-169P06	2R	1795813	1816813	estimated_end	1795813
		located_end	1816813		
CH322-169P08	2L	14687824	14708824	located_end	14687824
		estimated_end	14708824		
CH322-169P09	3R	12873368	12894368	estimated_end	12873368
		located_end	12894368		
CH322-169P10	2L	8261521	8282521	located_end	8261521
		estimated_end	8282521		
CH322-169P12	X	245406	266406	located_end	245406
		estimated_end	266406		
CH322-169P13	2L	22822948	22843948	located_end	22822948
		estimated_end	22843948		
CH322-169P14	2L	15983206	16004206	located_end	15983206
		estimated_end	16004206		
CH322-169P15	4	1270484	1291484	estimated_end	1270484
		located_end	1291484		
CH322-169P17	2L	22871979	22892979	located_end	22871979
		estimated_end	22892979		
CH322-169P18	3R	24009700	24030700	located_end	24009700
		estimated_end	24030700		
CH322-169P20	3LHet	1150851	1171851	located_end	1150851
		estimated_end	1171851		
CH322-169P21	3R	23227213	23248213	estimated_end	23227213
		located_end	23248213		
CH322-169P22	3L	2002298	2023298	located_end	2002298
		estimated_end	2023298		
CH322-16A03 X		10732532	10753532	located_end	10732532
		estimated_end	10753532		
CH322-16A07 2L		20304275	20325275	estimated_end	20304275
		located_end	20325275		
CH322-16A12 X		14575841	14596841	located_end	14575841
		estimated_end	14596841		
CH322-16A14 3R		1831936	1852936	estimated_end	1831936
		located_end	1852936		
CH322-16A17 3R		1035206	1056206	estimated_end	1035206
		located_end	1056206		
CH322-16A21 3R		17436794	17457794	estimated_end	17436794
		located_end	17457794		
CH322-16A24 2L		2087341	2108341	located_end	2087341
		estimated_end	2108341		
CH322-16B02 2R		6182833	6203833	located_end	6182833
		estimated_end	6203833		
CH322-16B03 2R		6245230	6266230	estimated_end	6245230
		located_end	6266230		
CH322-16B04 3L		591638	612638	located_end	591638
		estimated_end	612638		
CH322-16B11 3R		21139518	21160518	located_end	21139518
		estimated_end	21160518		
CH322-16B23 2L		11968524	11989524	estimated_end	11968524
		located_end	11989524		

CH322-16B24 2R	7787796	7808796	located_end	7787796
	estimated_end	7808796		
CH322-16C01 3R	24730736	24751736	located_end	24730736
	estimated_end	24751736		
CH322-16C03 3L	20233889	20254889	located_end	20233889
	estimated_end	20254889		
CH322-16C08 3R	288898	309898	located_end	288898
	estimated_end	309898		
CH322-16C10 2R	17323200	17344200	estimated_end	17323200
	located_end	17344200		
CH322-16C12 2R	20312747	20333747	estimated_end	20312747
	located_end	20333747		
CH322-16C17 3R	24620787	24641787	estimated_end	24620787
	located_end	24641787		
CH322-16C19 3R	11106653	11127653	located_end	11106653
	estimated_end	11127653		
CH322-16C21 X	17934092	17955092	estimated_end	17934092
	located_end	17955092		
CH322-16D01 2L	7974163	7995163	estimated_end	7974163
	located_end	7995163		
CH322-16D02 3L	9341246	9362246	estimated_end	9341246
	located_end	9362246		
CH322-16D03 3R	24298728	24319728	estimated_end	24298728
	located_end	24319728		
CH322-16D05 2L	16245308	16266308	located_end	16245308
	estimated_end	16266308		
CH322-16D06 ArmU	1028852	1049852	located_end	1028852
	estimated_end	1049852		
CH322-16D07 3R	14874883	14895883	estimated_end	14874883
	located_end	14895883		
CH322-16D09 2R	20442889	20463889	estimated_end	20442889
	located_end	20463889		
CH322-16D12 3L	21894201	21915201	estimated_end	21894201
	located_end	21915201		
CH322-16D13 3L	8796196	8817196	located_end	8796196
	estimated_end	8817196		
CH322-16D20 XHet	26481	47481	located_end	26481
	estimated_end	47481		
CH322-16E04 ArmU	252210	273210	estimated_end	252210
	located_end	273210		
CH322-16E09 2R	4963347	4984347	estimated_end	4963347
	located_end	4984347		
CH322-16E15 2L	4884504	4905504	located_end	4884504
	estimated_end	4905504		
CH322-16E16 3L	3154269	3175269	estimated_end	3154269
	located_end	3175269		
CH322-16E23 3L	2470334	2491334	located_end	2470334
	estimated_end	2491334		
CH322-16E24 3L	539629	560629	estimated_end	539629
	located_end	560629		
CH322-16F04 2R	8061265	8082265	estimated_end	8061265
	located_end	8082265		
CH322-16F06 2L	17385740	17406740	located_end	17385740
	estimated_end	17406740		

CH322-16F08 2L	707775	728775	located_end	707775
	estimated_end	728775		
CH322-16F09 2R	18558851	18579851	located_end	18558851
	estimated_end	18579851		
CH322-16F10 X	15040194	15061194	estimated_end	15040194
	located_end	15061194		
CH322-16F12 3R	13567088	13588088	estimated_end	13567088
	located_end	13588088		
CH322-16F14 2L	11847353	11868353	located_end	11847353
	estimated_end	11868353		
CH322-16F15 2L	541176	562176	estimated_end	541176
	located_end	562176		
CH322-16F18 3R	10811736	10832736	located_end	10811736
	estimated_end	10832736		
CH322-16F20 2L	6419964	6440964	located_end	6419964
	estimated_end	6440964		
CH322-16F24 3R	9498964	9519964	located_end	9498964
	estimated_end	9519964		
CH322-16G01 2R	19831866	19852866	located_end	19831866
	estimated_end	19852866		
CH322-16G02 3LHet	2222940	2243940	estimated_end	2222940
	located_end	2243940		
CH322-16G05 3R	14112508	14133508	estimated_end	14112508
	located_end	14133508		
CH322-16G06 ArmU	6452859	6473859	located_end	6452859
	estimated_end	6473859		
CH322-16G11 2L	11376021	11397021	located_end	11376021
	estimated_end	11397021		
CH322-16G12 2R	18081770	18102770	located_end	18081770
	estimated_end	18102770		
CH322-16G13 3R	3343383	3364383	estimated_end	3343383
	located_end	3364383		
CH322-16G17 2R	18028856	18049856	located_end	18028856
	estimated_end	18049856		
CH322-16H01 X	9877782	9898782	estimated_end	9877782
	located_end	9898782		
CH322-16H03 3R	17245667	17266667	estimated_end	17245667
	located_end	17266667		
CH322-16H07 X	14762311	14783311	located_end	14762311
	estimated_end	14783311		
CH322-16H12 X	20782157	20803157	located_end	20782157
	estimated_end	20803157		
CH322-16H13 3L	1816675	1837675	located_end	1816675
	estimated_end	1837675		
CH322-16H21 2R	6634924	6655924	estimated_end	6634924
	located_end	6655924		
CH322-16H22 3L	10881820	10902820	estimated_end	10881820
	located_end	10902820		
CH322-16H23 3R	5888829	5909829	estimated_end	5888829
	located_end	5909829		
CH322-16H24 3R	14713633	14734633	estimated_end	14713633
	located_end	14734633		
CH322-16I02 3L	9862443	9883443	located_end	9862443
	estimated_end	9883443		

CH322-16I16 2L	4584299	4605299	located_end	4584299
	estimated_end	4605299		
CH322-16I19 X	9110173	9131173	located_end	9110173
	estimated_end	9131173		
CH322-16I22 3R	17702358	17723358	estimated_end	17702358
	located_end	17723358		
CH322-16I23 2L	849278	870278	located_end	849278
	estimated_end	870278		
CH322-16J04 2L	18575968	18596968	located_end	18575968
	estimated_end	18596968		
CH322-16J05 3R	12177434	12198434	estimated_end	12177434
	located_end	12198434		
CH322-16J06 X	5757862	5778862	located_end	5757862
	estimated_end	5778862		
CH322-16J15 3R	14935512	14956512	estimated_end	14935512
	located_end	14956512		
CH322-16J18 2L	6073836	6094836	located_end	6073836
	estimated_end	6094836		
CH322-16J24 X	6484386	6505386	located_end	6484386
	estimated_end	6505386		
CH322-16K09 2R	18556920	18577920	located_end	18556920
	estimated_end	18577920		
CH322-16K11 3L	13371650	13392650	located_end	13371650
	estimated_end	13392650		
CH322-16K20 2L	15211343	15232343	estimated_end	15211343
	located_end	15232343		
CH322-16K23 2R	3035372	3056372	located_end	3035372
	estimated_end	3056372		
CH322-16L12 X	13718230	13739230	located_end	13718230
	estimated_end	13739230		
CH322-16L20 2L	22574361	22595361	estimated_end	22574361
	located_end	22595361		
CH322-16L23 ArmU	28530	49530	located_end	28530
	estimated_end	49530		
CH322-16M03 2R	12904854	12925854	located_end	12904854
	estimated_end	12925854		
CH322-16M08 3R	12852415	12873415	estimated_end	12852415
	located_end	12873415		
CH322-16M09 3R	14205617	14226617	estimated_end	14205617
	located_end	14226617		
CH322-16M11 2R	5593160	5614160	located_end	5593160
	estimated_end	5614160		
CH322-16M13 2L	4347799	4368799	estimated_end	4347799
	located_end	4368799		
CH322-16M19 3RHet	1616677	1637677	estimated_end	1616677
	located_end	1637677		
CH322-16M21 2L	19630802	19651802	located_end	19630802
	estimated_end	19651802		
CH322-16M23 3RHet	1565027	1586027	located_end	1565027
	estimated_end	1586027		
CH322-16N07 2R	8419288	8440288	located_end	8419288
	estimated_end	8440288		
CH322-16N21 3R	13319770	13340770	located_end	13319770
	estimated_end	13340770		

CH322-16N23 3L	11981076	12002076	located_end	11981076
	estimated_end	12002076		
CH322-16N24 X	18825131	18846131	located_end	18825131
	estimated_end	18846131		
CH322-16O04 3R	19163633	19184633	located_end	19163633
	estimated_end	19184633		
CH322-16O18 3R	19598789	19619789	estimated_end	19598789
	located_end	19619789		
CH322-16O20 2R	9084781	9105781	located_end	9084781
	estimated_end	9105781		
CH322-16O22 2L	22162633	22183633	estimated_end	22162633
	located_end	22183633		
CH322-16O23 2R	5796706	5817706	located_end	5796706
	estimated_end	5817706		
CH322-16P08 ArmU	2111809	2132809	located_end	2111809
	estimated_end	2132809		
CH322-16P11 X	7128688	7149688	estimated_end	7128688
	located_end	7149688		
CH322-16P13 2L	13639811	13660811	located_end	13639811
	estimated_end	13660811		
CH322-16P15 2L	21285784	21306784	located_end	21285784
	estimated_end	21306784		
CH322-16P19 X	5960187	5981187	located_end	5960187
	estimated_end	5981187		
CH322-16P20 3LHet	372534	393534	located_end	372534
	estimated_end	393534		
CH322-16P21 2L	11624854	11645854	located_end	11624854
	estimated_end	11645854		
CH322-16P23 3L	14567677	14588677	located_end	14567677
	estimated_end	14588677		
CH322-170A06 2R	15356392	15377392	located_end	15356392
	estimated_end	15377392		
CH322-170A10 3R	24880435	24901435	located_end	24880435
	estimated_end	24901435		
CH322-170A15 2L	4250775	4271775	located_end	4250775
	estimated_end	4271775		
CH322-170A16 2R	5351252	5372252	located_end	5351252
	estimated_end	5372252		
CH322-170A18 2R	14483327	14504327	estimated_end	14483327
	located_end	14504327		
CH322-170B03 X	5807347	5828347	estimated_end	5807347
	located_end	5828347		
CH322-170B12 3R	14933982	14954982	estimated_end	14933982
	located_end	14954982		
CH322-170B15 2R	19988051	20009051	estimated_end	19988051
	located_end	20009051		
CH322-170B18 3R	21269488	21290488	estimated_end	21269488
	located_end	21290488		
CH322-170C07 2L	10247861	10268861	estimated_end	10247861
	located_end	10268861		
CH322-170C08 3L	9233917	9254917	located_end	9233917
	estimated_end	9254917		
CH322-170C10 3L	14642530	14663530	estimated_end	14642530
	located_end	14663530		

CH322-170C14	2R	3281057	3302057	estimated_end	3281057
		located_end	3302057		
CH322-170C20	3L	22414422	22435422	located_end	22414422
		estimated_end	22435422		
CH322-170D05	3R	25619597	25640597	estimated_end	25619597
		located_end	25640597		
CH322-170D07	2L	15004859	15025859	estimated_end	15004859
		located_end	15025859		
CH322-170D11	2R	18529635	18550635	estimated_end	18529635
		located_end	18550635		
CH322-170D12	2L	6137671	6158671	located_end	6137671
		estimated_end	6158671		
CH322-170D19	3R	16294468	16315468	estimated_end	16294468
		located_end	16315468		
CH322-170D20	2L	19163516	19184516	located_end	19163516
		estimated_end	19184516		
CH322-170D22	3R	21934100	21955100	estimated_end	21934100
		located_end	21955100		
CH322-170D24	4	106981	127981	located_end	106981
		estimated_end	127981		
CH322-170E05	3R	24181826	24202826	estimated_end	24181826
		located_end	24202826		
CH322-170E07	X	1436331	1457331	located_end	1436331
		estimated_end	1457331		
CH322-170E08	2L	21866712	21887712	estimated_end	21866712
		located_end	21887712		
CH322-170E11	3L	7399676	7420676	located_end	7399676
		estimated_end	7420676		
CH322-170E12	X	11919443	11940443	located_end	11919443
		estimated_end	11940443		
CH322-170E14	2L	11402147	11423147	estimated_end	11402147
		located_end	11423147		
CH322-170F04	2L	734619	755619	located_end	734619
		estimated_end	755619		
CH322-170F10	2L	6157808	6178808	located_end	6157808
		estimated_end	6178808		
CH322-170F11	3R	11334766	11355766	estimated_end	11334766
		located_end	11355766		
CH322-170F12	3R	5792959	5813959	located_end	5792959
		estimated_end	5813959		
CH322-170F13	X	12561963	12582963	estimated_end	12561963
		located_end	12582963		
CH322-170F14	3R	12397129	12418129	estimated_end	12397129
		located_end	12418129		
CH322-170F19	2L	14884443	14905443	estimated_end	14884443
		located_end	14905443		
CH322-170F20	3L	14606849	14627849	located_end	14606849
		estimated_end	14627849		
CH322-170G04	2L	18647765	18668765	estimated_end	18647765
		located_end	18668765		
CH322-170G07	X	10692496	10713496	located_end	10692496
		estimated_end	10713496		
CH322-170G10	3R	9879771	9900771	estimated_end	9879771
		located_end	9900771		

CH322-170G12	3R	20966889	20987889	located_end	20966889
		estimated_end	20987889		
CH322-170G14	2R	13435053	13456053	located_end	13435053
		estimated_end	13456053		
CH322-170G18	2L	19189014	19210014	located_end	19189014
		estimated_end	19210014		
CH322-170H06	3L	3361381	3382381	located_end	3361381
		estimated_end	3382381		
CH322-170H07	2R	13693711	13714711	estimated_end	13693711
		located_end	13714711		
CH322-170H08	3R	25601701	25622701	located_end	25601701
		estimated_end	25622701		
CH322-170H09	X	1183986	1204986	estimated_end	1183986
		located_end	1204986		
CH322-170H10	X	20538938	20559938	located_end	20538938
		estimated_end	20559938		
CH322-170H11	3L	10134932	10155932	located_end	10134932
		estimated_end	10155932		
CH322-170H16	3L	9275925	9296925	located_end	9275925
		estimated_end	9296925		
CH322-170I07	2L	9708067	9729067	estimated_end	9708067
		located_end	9729067		
CH322-170I10	4	375749	396749	estimated_end	375749
		located_end	396749		
CH322-170I12	3L	19357705	19378705	located_end	19357705
		estimated_end	19378705		
CH322-170I13	2L	7766930	7787930	estimated_end	7766930
		located_end	7787930		
CH322-170I17	3L	4062580	4083580	located_end	4062580
		estimated_end	4083580		
CH322-170I18	3R	21371934	21392934	estimated_end	21371934
		located_end	21392934		
CH322-170I20	3R	27109732	27130732	estimated_end	27109732
		located_end	27130732		
CH322-170J02	2R	20177191	20198191	estimated_end	20177191
		located_end	20198191		
CH322-170J04	3R	19305536	19326536	located_end	19305536
		estimated_end	19326536		
CH322-170J09	2R	10161902	10182902	estimated_end	10161902
		located_end	10182902		
CH322-170J10	3L	7943592	7964592	located_end	7943592
		estimated_end	7964592		
CH322-170J12	3R	567005	588005	estimated_end	567005
		located_end	588005		
CH322-170J14	2R	18535021	18556021	located_end	18535021
		estimated_end	18556021		
CH322-170J15	2L	4447437	4468437	located_end	4447437
		estimated_end	4468437		
CH322-170K10	3L	16745664	16766664	estimated_end	16745664
		located_end	16766664		
CH322-170K11	2R	15227119	15248119	located_end	15227119
		estimated_end	15248119		
CH322-170K14	2R	12193143	12214143	located_end	12193143
		estimated_end	12214143		

CH322-170L06	X	11750289	11771289	estimated_end	11750289
		located_end	11771289		
CH322-170L08	3L	4753621	4774621	located_end	4753621
		estimated_end	4774621		
CH322-170L14	2L	18072957	18093957	located_end	18072957
		estimated_end	18093957		
CH322-170L17	X	12363649	12384649	located_end	12363649
		estimated_end	12384649		
CH322-170M02	3R	3685023	3706023	located_end	3685023
		estimated_end	3706023		
CH322-170M06	2L	11744960	11765960	estimated_end	11744960
		located_end	11765960		
CH322-170N03	3L	22298716	22319716	estimated_end	22298716
		located_end	22319716		
CH322-170N07	2L	15111187	15132187	located_end	15111187
		estimated_end	15132187		
CH322-170N08	3L	13813154	13834154	estimated_end	13813154
		located_end	13834154		
CH322-170N10	3R	15722138	15743138	located_end	15722138
		estimated_end	15743138		
CH322-170N11	X	9834844	9855844	estimated_end	9834844
		located_end	9855844		
CH322-170N18	X	26248 47248	located_end 26248	estimated_end	
		47248			
CH322-170N24	4	1286121	1307121	estimated_end	1286121
		located_end	1307121		
CH322-170O04	3L	22467902	22488902	located_end	22467902
		estimated_end	22488902		
CH322-170O06	2R	20882569	20903569	estimated_end	20882569
		located_end	20903569		
CH322-170O14	3L	5499378	5520378	located_end	5499378
		estimated_end	5520378		
CH322-170O15	ArmU	9891081	9912081	located_end	9891081
		estimated_end	9912081		
CH322-170O24	2L	4689731	4710731	located_end	4689731
		estimated_end	4710731		
CH322-170P01	3L	10523030	10544030	estimated_end	10523030
		located_end	10544030		
CH322-170P10	X	11346415	11367415	located_end	11346415
		estimated_end	11367415		
CH322-170P23	2L	11689818	11710818	located_end	11689818
		estimated_end	11710818		
CH322-171A20	X	16553850	16574850	located_end	16553850
		estimated_end	16574850		
CH322-171A24	2R	16773900	16794900	estimated_end	16773900
		located_end	16794900		
CH322-171B04	2R	7294001	7315001	located_end	7294001
		estimated_end	7315001		
CH322-171B11	3L	6275675	6296675	estimated_end	6275675
		located_end	6296675		
CH322-171B12	2R	13554438	13575438	located_end	13554438
		estimated_end	13575438		
CH322-171B14	3L	7487497	7508497	estimated_end	7487497
		located_end	7508497		

CH322-171B15	2L	6204457	6225457	estimated_end	6204457
		located_end	6225457		
CH322-171B18	2L	20306169	20327169	estimated_end	20306169
		located_end	20327169		
CH322-171B19	2L	22141192	22162192	located_end	22141192
		estimated_end	22162192		
CH322-171B20	3R	17523488	17544488	estimated_end	17523488
		located_end	17544488		
CH322-171B21	2L	14780487	14801487	estimated_end	14780487
		located_end	14801487		
CH322-171B22	3L	22851303	22872303	located_end	22851303
		estimated_end	22872303		
CH322-171B23	3R	16154888	16175888	estimated_end	16154888
		located_end	16175888		
CH322-171C07	X	14163885	14184885	located_end	14163885
		estimated_end	14184885		
CH322-171C08	3R	12888543	12909543	located_end	12888543
		estimated_end	12909543		
CH322-171C15	3R	27445751	27466751	estimated_end	27445751
		located_end	27466751		
CH322-171C16	X	11404175	11425175	located_end	11404175
		estimated_end	11425175		
CH322-171C21	2L	11092942	11113942	located_end	11092942
		estimated_end	11113942		
CH322-171C23	2R	12908195	12929195	located_end	12908195
		estimated_end	12929195		
CH322-171C24	3L	16714457	16735457	located_end	16714457
		estimated_end	16735457		
CH322-171D01	3R	9375740	9396740	located_end	9375740
		estimated_end	9396740		
CH322-171D09	2R	13823341	13844341	located_end	13823341
		estimated_end	13844341		
CH322-171D12	ArmU	8299574	8320574	located_end	8299574
		estimated_end	8320574		
CH322-171D13	2L	9626357	9647357	estimated_end	9626357
		located_end	9647357		
CH322-171D15	2R	9153418	9174418	estimated_end	9153418
		located_end	9174418		
CH322-171D22	3R	9353440	9374440	estimated_end	9353440
		located_end	9374440		
CH322-171D24	3R	832738	853738	estimated_end	832738
		located_end	853738		
CH322-171E11	2R	6527598	6548598	located_end	6527598
		estimated_end	6548598		
CH322-171E19	2R	14251051	14272051	estimated_end	14251051
		located_end	14272051		
CH322-171E20	2R	16327291	16348291	located_end	16327291
		estimated_end	16348291		
CH322-171E21	2R	19791662	19812662	located_end	19791662
		estimated_end	19812662		
CH322-171E22	2L	16795086	16816086	located_end	16795086
		estimated_end	16816086		
CH322-171E24	3RHet	387331	408331	estimated_end	387331
		located_end	408331		

CH322-171F05	4	416595	437595	located_end	416595
		estimated_end	437595		
CH322-171F09	3L	17792662	17813662	estimated_end	17792662
		located_end	17813662		
CH322-171F12	3L	15010121	15031121	estimated_end	15010121
		located_end	15031121		
CH322-171F16	2L	10950361	10971361	estimated_end	10950361
		located_end	10971361		
CH322-171G10	3R	27830694	27851694	estimated_end	27830694
		located_end	27851694		
CH322-171G24	3L	2264484	2285484	located_end	2264484
		estimated_end	2285484		
CH322-171H09	3L	9354477	9375477	located_end	9354477
		estimated_end	9375477		
CH322-171H21	3L	13642173	13663173	located_end	13642173
		estimated_end	13663173		
CH322-171H22	3L	7038714	7059714	estimated_end	7038714
		located_end	7059714		
CH322-171H23	2R	3426735	3447735	estimated_end	3426735
		located_end	3447735		
CH322-171I11	3R	5275150	5296150	estimated_end	5275150
		located_end	5296150		
CH322-171I12	2L	10641227	10662227	estimated_end	10641227
		located_end	10662227		
CH322-171I16	X	3116899	3137899	estimated_end	3116899
		located_end	3137899		
CH322-171I18	2R	2985211	3006211	located_end	2985211
		estimated_end	3006211		
CH322-171I23	2L	19946537	19967537	located_end	19946537
		estimated_end	19967537		
CH322-171J09	2L	361989	382989	estimated_end	361989
		located_end	382989		
CH322-171J10	3R	19464734	19485734	located_end	19464734
		estimated_end	19485734		
CH322-171J22	3R	10280187	10301187	estimated_end	10280187
		located_end	10301187		
CH322-171J23	2R	4839291	4860291	estimated_end	4839291
		located_end	4860291		
CH322-171K15	3R	15330146	15351146	estimated_end	15330146
		located_end	15351146		
CH322-171K18	ArmU	1893136	1914136	estimated_end	1893136
		located_end	1914136		
CH322-171K21	2L	1988738	2009738	located_end	1988738
		estimated_end	2009738		
CH322-171L01	X	16770174	16791174	estimated_end	16770174
		located_end	16791174		
CH322-171L02	X	5596352	5617352	estimated_end	5596352
		located_end	5617352		
CH322-171L07	2L	18649613	18670613	located_end	18649613
		estimated_end	18670613		
CH322-171L15	3R	15986572	16007572	estimated_end	15986572
		located_end	16007572		
CH322-171L18	X	14844717	14865717	located_end	14844717
		estimated_end	14865717		

CH322-171L21	2L	13114716	13135716	estimated_end	13114716
		located_end	13135716		
CH322-171L22	2R	10179448	10200448	estimated_end	10179448
		located_end	10200448		
CH322-171L23	3L	8231248	8252248	estimated_end	8231248
		located_end	8252248		
CH322-171M06	3R	12335534	12356534	located_end	12335534
		estimated_end	12356534		
CH322-171M07	X	20346154	20367154	located_end	20346154
		estimated_end	20367154		
CH322-171M13	3R	11167106	11188106	located_end	11167106
		estimated_end	11188106		
CH322-171M14	2R	6246339	6267339	located_end	6246339
		estimated_end	6267339		
CH322-171M15	X	8240236	8261236	estimated_end	8240236
		located_end	8261236		
CH322-171M18	3L	3810981	3831981	located_end	3810981
		estimated_end	3831981		
CH322-171M22	3R	25256102	25277102	estimated_end	25256102
		located_end	25277102		
CH322-171N05	2L	4153899	4174899	located_end	4153899
		estimated_end	4174899		
CH322-171N08	2R	14313086	14334086	located_end	14313086
		estimated_end	14334086		
CH322-171N13	2L	8088556	8109556	estimated_end	8088556
		located_end	8109556		
CH322-171N16	2L	8194161	8215161	estimated_end	8194161
		located_end	8215161		
CH322-171N18	3L	7794345	7815345	estimated_end	7794345
		located_end	7815345		
CH322-171N19	2L	16799219	16820219	estimated_end	16799219
		located_end	16820219		
CH322-171N20	2R	4112401	4133401	located_end	4112401
		estimated_end	4133401		
CH322-171N22	3R	5850977	5871977	estimated_end	5850977
		located_end	5871977		
CH322-171N23	2R	4528292	4549292	estimated_end	4528292
		located_end	4549292		
CH322-171N24	3L	8255195	8276195	estimated_end	8255195
		located_end	8276195		
CH322-171O10	3R	26459434	26480434	located_end	26459434
		estimated_end	26480434		
CH322-171O14	2L	647956	668956	located_end	647956
		estimated_end	668956		
CH322-171O19	X	17969403	17990403	located_end	17969403
		estimated_end	17990403		
CH322-171O20	2L	13094442	13115442	estimated_end	13094442
		located_end	13115442		
CH322-171O24	X	2167543	2188543	located_end	2167543
		estimated_end	2188543		
CH322-171P23	3L	24316026	24337026	located_end	24316026
		estimated_end	24337026		
CH322-171P24	2L	11065725	11086725	located_end	11065725
		estimated_end	11086725		

CH322-172A01	ArmU	1136410	1157410	estimated_end	1136410
		located_end	1157410		
CH322-172A08	3L	13884281	13905281	estimated_end	13884281
		located_end	13905281		
CH322-172A10	3R	20704986	20725986	estimated_end	20704986
		located_end	20725986		
CH322-172A14	2L	21101333	21122333	estimated_end	21101333
		located_end	21122333		
CH322-172A17	3R	24791615	24812615	estimated_end	24791615
		located_end	24812615		
CH322-172A19	3R	4754566	4775566	located_end	4754566
		estimated_end	4775566		
CH322-172A21	2L	6831191	6852191	estimated_end	6831191
		located_end	6852191		
CH322-172B10	2R	8898460	8919460	estimated_end	8898460
		located_end	8919460		
CH322-172B11	3L	12543154	12564154	located_end	12543154
		estimated_end	12564154		
CH322-172B13	2L	17489041	17510041	estimated_end	17489041
		located_end	17510041		
CH322-172B14	3L	13291969	13312969	located_end	13291969
		estimated_end	13312969		
CH322-172B16	3R	7416818	7437818	estimated_end	7416818
		located_end	7437818		
CH322-172B18	2L	3128021	3149021	located_end	3128021
		estimated_end	3149021		
CH322-172B19	3L	11923420	11944420	located_end	11923420
		estimated_end	11944420		
CH322-172B22	2R	3545566	3566566	estimated_end	3545566
		located_end	3566566		
CH322-172C04	3L	4476611	4497611	located_end	4476611
		estimated_end	4497611		
CH322-172C06	ArmU	8839406	8860406	located_end	8839406
		estimated_end	8860406		
CH322-172C13	YHet	188451	209451	located_end	188451
		estimated_end	209451		
CH322-172C14	3L	21456458	21477458	located_end	21456458
		estimated_end	21477458		
CH322-172C18	3RHet	812682	833682	located_end	812682
		estimated_end	833682		
CH322-172D07	2L	3725209	3746209	located_end	3725209
		estimated_end	3746209		
CH322-172D08	2L	22381493	22402493	estimated_end	22381493
		located_end	22402493		
CH322-172D10	2L	12956613	12977613	estimated_end	12956613
		located_end	12977613		
CH322-172D11	ArmU	7981342	8002342	located_end	7981342
		estimated_end	8002342		
CH322-172D12	3L	12895275	12916275	located_end	12895275
		estimated_end	12916275		
CH322-172D13	3R	5909811	5930811	located_end	5909811
		estimated_end	5930811		
CH322-172D14	4	980409	1001409	located_end	980409
		estimated_end	1001409		

CH322-172D19	2L	14985482	15006482	estimated_end	14985482
		located_end	15006482		
CH322-172D22	3R	19234498	19255498	estimated_end	19234498
		located_end	19255498		
CH322-172D24	3R	19468092	19489092	located_end	19468092
		estimated_end	19489092		
CH322-172E01	X	16891270	16912270	located_end	16891270
		estimated_end	16912270		
CH322-172E06	3L	8940712	8961712	located_end	8940712
		estimated_end	8961712		
CH322-172E07	2R	12684587	12705587	estimated_end	12684587
		located_end	12705587		
CH322-172E19	3R	10020951	10041951	estimated_end	10020951
		located_end	10041951		
CH322-172E23	X	5365246	5386246	estimated_end	5365246
		located_end	5386246		
CH322-172E24	3R	5989398	6010398	located_end	5989398
		estimated_end	6010398		
CH322-172F04	2R	10852466	10873466	estimated_end	10852466
		located_end	10873466		
CH322-172F06	3R	10087885	10108885	located_end	10087885
		estimated_end	10108885		
CH322-172F11	X	1902075	1923075	estimated_end	1902075
		located_end	1923075		
CH322-172F12	X	20461217	20482217	estimated_end	20461217
		located_end	20482217		
CH322-172F14	2L	20619443	20640443	estimated_end	20619443
		located_end	20640443		
CH322-172F19	3R	17400348	17421348	located_end	17400348
		estimated_end	17421348		
CH322-172F24	3L	16387709	16408709	located_end	16387709
		estimated_end	16408709		
CH322-172G06	2L	243728	264728	estimated_end	243728
		located_end	264728		
CH322-172G15	3R	5726013	5747013	estimated_end	5726013
		located_end	5747013		
CH322-172G18	3L	6461554	6482554	located_end	6461554
		estimated_end	6482554		
CH322-172G21	ArmU	7740307	7761307	estimated_end	7740307
		located_end	7761307		
CH322-172H05	2R	10861790	10882790	estimated_end	10861790
		located_end	10882790		
CH322-172H06	3L	17970777	17991777	estimated_end	17970777
		located_end	17991777		
CH322-172H07	3L	17204328	17225328	located_end	17204328
		estimated_end	17225328		
CH322-172H08	3R	21375533	21396533	located_end	21375533
		estimated_end	21396533		
CH322-172H09	2R	13183221	13204221	located_end	13183221
		estimated_end	13204221		
CH322-172H13	X	10498385	10519385	located_end	10498385
		estimated_end	10519385		
CH322-172H18	X	9330345	9351345	located_end	9330345
		estimated_end	9351345		

CH322-172I04	X	13872181	13893181	estimated_end	13872181
		located_end	13893181		
CH322-172I07	3L	10599475	10620475	located_end	10599475
		estimated_end	10620475		
CH322-172I13	3R	16159675	16180675	estimated_end	16159675
		located_end	16180675		
CH322-172I17	3R	6333760	6354760	estimated_end	6333760
		located_end	6354760		
CH322-172I19	2R	19049331	19070331	located_end	19049331
		estimated_end	19070331		
CH322-172J06	3L	12557210	12578210	located_end	12557210
		estimated_end	12578210		
CH322-172J09	3R	6368147	6389147	located_end	6368147
		estimated_end	6389147		
CH322-172J10	3R	1682394	1703394	estimated_end	1682394
		located_end	1703394		
CH322-172J12	2R	18624423	18645423	located_end	18624423
		estimated_end	18645423		
CH322-172J13	X	9535483	9556483	estimated_end	9535483
		located_end	9556483		
CH322-172J15	2R	7380004	7401004	estimated_end	7380004
		located_end	7401004		
CH322-172J16	2L	11828044	11849044	estimated_end	11828044
		located_end	11849044		
CH322-172J20	3R	27696391	27717391	located_end	27696391
		estimated_end	27717391		
CH322-172K08	2L	11379880	11400880	located_end	11379880
		estimated_end	11400880		
CH322-172K12	3R	25222498	25243498	located_end	25222498
		estimated_end	25243498		
CH322-172K13	2R	5680013	5701013	located_end	5680013
		estimated_end	5701013		
CH322-172K14	X	8114896	8135896	estimated_end	8114896
		located_end	8135896		
CH322-172K15	X	9946957	9967957	located_end	9946957
		estimated_end	9967957		
CH322-172K16	3L	3635159	3656159	located_end	3635159
		estimated_end	3656159		
CH322-172K19	2L	11856379	11877379	estimated_end	11856379
		located_end	11877379		
CH322-172L04	3R	20536175	20557175	located_end	20536175
		estimated_end	20557175		
CH322-172L09	2R	3798426	3819426	estimated_end	3798426
		located_end	3819426		
CH322-172L14	2L	15818272	15839272	located_end	15818272
		estimated_end	15839272		
CH322-172L16	2L	15753389	15774389	estimated_end	15753389
		located_end	15774389		
CH322-172L18	2R	5243492	5264492	estimated_end	5243492
		located_end	5264492		
CH322-172L23	3LHet	1534371	1555371	located_end	1534371
		estimated_end	1555371		
CH322-172L24	2R	7792249	7813249	estimated_end	7792249
		located_end	7813249		

CH322-172M02	2R	5825212	5846212	estimated_end	5825212
		located_end	5846212		
CH322-172M04	ArmU	4816826	4837826	located_end	4816826
		estimated_end	4837826		
CH322-172M05	X	547526	568526	located_end	547526
		estimated_end	568526		
CH322-172M08	3LHet	2195654	2216654	located_end	2195654
		estimated_end	2216654		
CH322-172M09	X	3391511	3412511	estimated_end	3391511
		located_end	3412511		
CH322-172M10	3L	5640051	5661051	located_end	5640051
		estimated_end	5661051		
CH322-172M11	2L	8688989	8709989	estimated_end	8688989
		located_end	8709989		
CH322-172M16	3R	23266959	23287959	estimated_end	23266959
		located_end	23287959		
CH322-172M23	3R	6813340	6834340	estimated_end	6813340
		located_end	6834340		
CH322-172N03	3R	24761625	24782625	located_end	24761625
		estimated_end	24782625		
CH322-172N10	X	11568573	11589573	located_end	11568573
		estimated_end	11589573		
CH322-172N11	3R	23860242	23881242	estimated_end	23860242
		located_end	23881242		
CH322-172N13	2L	15880570	15901570	estimated_end	15880570
		located_end	15901570		
CH322-172N14	3L	600115	621115	located_end	600115
		estimated_end	621115		
CH322-172N16	2L	14266811	14287811	estimated_end	14266811
		located_end	14287811		
CH322-172N19	2R	11684654	11705654	estimated_end	11684654
		located_end	11705654		
CH322-172N20	2L	17276029	17297029	estimated_end	17276029
		located_end	17297029		
CH322-172N22	2R	19120101	19141101	estimated_end	19120101
		located_end	19141101		
CH322-172N24	2L	21665592	21686592	located_end	21665592
		estimated_end	21686592		
CH322-172O01	X	4196584	4217584	located_end	4196584
		estimated_end	4217584		
CH322-172O06	X	17991304	18012304	located_end	17991304
		estimated_end	18012304		
CH322-172O10	ArmU	6141129	6162129	estimated_end	6141129
		located_end	6162129		
CH322-172O21	3L	10941771	10962771	located_end	10941771
		estimated_end	10962771		
CH322-172O22	3LHet	195419	216419	estimated_end	195419
		located_end	216419		
CH322-172O23	3R	12857523	12878523	located_end	12857523
		estimated_end	12878523		
CH322-172P01	3R	14863810	14884810	estimated_end	14863810
		located_end	14884810		
CH322-172P05	ArmU	8938019	8959019	estimated_end	8938019
		located_end	8959019		

CH322-172P11	3L	2448222	2469222	estimated_end	2448222
		located_end	2469222		
CH322-172P15	2R	3734684	3755684	located_end	3734684
		estimated_end	3755684		
CH322-173A06	3R	19781279	19802279	estimated_end	19781279
		located_end	19802279		
CH322-173A08	3R	14610866	14631866	located_end	14610866
		estimated_end	14631866		
CH322-173A18	3R	22285836	22306836	located_end	22285836
		estimated_end	22306836		
CH322-173A24	3L	9294837	9315837	estimated_end	9294837
		located_end	9315837		
CH322-173B02	2L	17719112	17740112	located_end	17719112
		estimated_end	17740112		
CH322-173B03	3L	10582854	10603854	located_end	10582854
		estimated_end	10603854		
CH322-173B04	2L	3279916	3300916	located_end	3279916
		estimated_end	3300916		
CH322-173B05	2L	11378403	11399403	estimated_end	11378403
		located_end	11399403		
CH322-173B06	3L	15154360	15175360	located_end	15154360
		estimated_end	15175360		
CH322-173B08	3R	24632902	24653902	located_end	24632902
		estimated_end	24653902		
CH322-173B09	3L	18915170	18936170	estimated_end	18915170
		located_end	18936170		
CH322-173B10	3R	5842825	5863825	estimated_end	5842825
		located_end	5863825		
CH322-173B14	2R	19930701	19951701	located_end	19930701
		estimated_end	19951701		
CH322-173B17	2L	14205522	14226522	estimated_end	14205522
		located_end	14226522		
CH322-173B19	2L	7972293	7993293	located_end	7972293
		estimated_end	7993293		
CH322-173B21	2L	2515498	2536498	located_end	2515498
		estimated_end	2536498		
CH322-173B23	3L	11047176	11068176	located_end	11047176
		estimated_end	11068176		
CH322-173B24	2R	15681104	15702104	estimated_end	15681104
		located_end	15702104		
CH322-173C08	2RHet	1317676	1338676	estimated_end	1317676
		located_end	1338676		
CH322-173C10	X	19683177	19704177	estimated_end	19683177
		located_end	19704177		
CH322-173C23	X	22275171	22296171	located_end	22275171
		estimated_end	22296171		
CH322-173D02	3L	22786252	22807252	located_end	22786252
		estimated_end	22807252		
CH322-173D03	3R	24284669	24305669	located_end	24284669
		estimated_end	24305669		
CH322-173D06	3R	22034941	22055941	located_end	22034941
		estimated_end	22055941		
CH322-173D07	3L	21226790	21247790	estimated_end	21226790
		located_end	21247790		

CH322-173D08	X	16603342	16624342	located_end	16603342
		estimated_end	16624342		
CH322-173D09	3R	16505624	16526624	located_end	16505624
		estimated_end	16526624		
CH322-173D10	2R	5259331	5280331	estimated_end	5259331
		located_end	5280331		
CH322-173D12	3L	18260729	18281729	estimated_end	18260729
		located_end	18281729		
CH322-173D13	4	998219	1019219	located_end	998219
		estimated_end	1019219		
CH322-173D15	2R	21074494	21095494	estimated_end	21074494
		located_end	21095494		
CH322-173E11	2L	18236044	18257044	located_end	18236044
		estimated_end	18257044		
CH322-173E13	3L	4673335	4694335	estimated_end	4673335
		located_end	4694335		
CH322-173E14	X	22400720	22421720	estimated_end	22400720
		located_end	22421720		
CH322-173E22	3L	20964813	20985813	estimated_end	20964813
		located_end	20985813		
CH322-173F06	3R	22775966	22796966	estimated_end	22775966
		located_end	22796966		
CH322-173F11	X	16553852	16574852	located_end	16553852
		estimated_end	16574852		
CH322-173F13	X	7921691	7942691	located_end	7921691
		estimated_end	7942691		
CH322-173F17	3R	20533927	20554927	estimated_end	20533927
		located_end	20554927		
CH322-173F22	3L	1928940	1949940	estimated_end	1928940
		located_end	1949940		
CH322-173G04	2L	15066858	15087858	located_end	15066858
		estimated_end	15087858		
CH322-173G07	ArmU	9253055	9274055	located_end	9253055
		estimated_end	9274055		
CH322-173G09	X	5035941	5056941	estimated_end	5035941
		located_end	5056941		
CH322-173G10	3L	3250005	3271005	estimated_end	3250005
		located_end	3271005		
CH322-173G13	2R	806300	827300	estimated_end	806300
		located_end	827300		
CH322-173G24	X	12454265	12475265	estimated_end	12454265
		located_end	12475265		
CH322-173H05	2L	18570766	18591766	located_end	18570766
		estimated_end	18591766		
CH322-173H14	ArmU	152499	173499	estimated_end	152499
		located_end	173499		
CH322-173I02	2L	1659686	1680686	located_end	1659686
		estimated_end	1680686		
CH322-173I10	2L	1913479	1934479	estimated_end	1913479
		located_end	1934479		
CH322-173I12	3L	7659646	7680646	located_end	7659646
		estimated_end	7680646		
CH322-173J07	3R	21285420	21306420	located_end	21285420
		estimated_end	21306420		

CH322-173J09	3R	16537103	16558103	estimated_end	16537103
		located_end	16558103		
CH322-173J10	X	16048938	16069938	estimated_end	16048938
		located_end	16069938		
CH322-173J13	2L	21082004	21103004	located_end	21082004
		estimated_end	21103004		
CH322-173J14	3L	15521750	15542750	located_end	15521750
		estimated_end	15542750		
CH322-173J17	2L	16145495	16166495	estimated_end	16145495
		located_end	16166495		
CH322-173K02	2R	3697055	3718055	located_end	3697055
		estimated_end	3718055		
CH322-173K10	3L	5422007	5443007	located_end	5422007
		estimated_end	5443007		
CH322-173K22	3L	14189551	14210551	located_end	14189551
		estimated_end	14210551		
CH322-173L04	3LHet	787041	808041	located_end	787041
		estimated_end	808041		
CH322-173L05	X	16382136	16403136	located_end	16382136
		estimated_end	16403136		
CH322-173L09	2L	19126022	19147022	located_end	19126022
		estimated_end	19147022		
CH322-173L10	3L	15789581	15810581	estimated_end	15789581
		located_end	15810581		
CH322-173L11	3L	7412610	7433610	located_end	7412610
		estimated_end	7433610		
CH322-173L12	2R	20208816	20229816	located_end	20208816
		estimated_end	20229816		
CH322-173L17	3R	27827735	27848735	estimated_end	27827735
		located_end	27848735		
CH322-173L21	2R	18112639	18133639	estimated_end	18112639
		located_end	18133639		
CH322-173L23	2L	11626117	11647117	estimated_end	11626117
		located_end	11647117		
CH322-173M14	3L	17756588	17777588	estimated_end	17756588
		located_end	17777588		
CH322-173M18	X	19706825	19727825	estimated_end	19706825
		located_end	19727825		
CH322-173M20	2L	18278424	18299424	located_end	18278424
		estimated_end	18299424		
CH322-173M21	X	19917137	19938137	located_end	19917137
		estimated_end	19938137		
CH322-173N05	X	8235165	8256165	estimated_end	8235165
		located_end	8256165		
CH322-173N10	3L	18190808	18211808	estimated_end	18190808
		located_end	18211808		
CH322-173N18	2L	8077754	8098754	estimated_end	8077754
		located_end	8098754		
CH322-173N21	2R	6837578	6858578	estimated_end	6837578
		located_end	6858578		
CH322-173N22	2R	12566607	12587607	located_end	12566607
		estimated_end	12587607		
CH322-173N23	2R	7185157	7206157	estimated_end	7185157
		located_end	7206157		

CH322-173006	3R	17383591	17404591	estimated_end	17383591
		located_end	17404591		
CH322-173008	2R	8493122	8514122	estimated_end	8493122
		located_end	8514122		
CH322-173009	2L	3982250	4003250	located_end	3982250
		estimated_end	4003250		
CH322-173012	3R	18121887	18142887	estimated_end	18121887
		located_end	18142887		
CH322-173020	X	22003972	22024972	located_end	22003972
		estimated_end	22024972		
CH322-173022	3L	11691126	11712126	estimated_end	11691126
		located_end	11712126		
CH322-173024	3L	5177891	5198891	located_end	5177891
		estimated_end	5198891		
CH322-173P01	2L	4890732	4911732	located_end	4890732
		estimated_end	4911732		
CH322-173P03	2L	14031499	14052499	located_end	14031499
		estimated_end	14052499		
CH322-173P04	2R	12384023	12405023	estimated_end	12384023
		located_end	12405023		
CH322-173P09	2R	15247456	15268456	located_end	15247456
		estimated_end	15268456		
CH322-173P13	3L	10258157	10279157	estimated_end	10258157
		located_end	10279157		
CH322-173P17	3R	10863974	10884974	estimated_end	10863974
		located_end	10884974		
CH322-173P22	2L	1235362	1256362	estimated_end	1235362
		located_end	1256362		
CH322-174A01	2L	15482149	15503149	estimated_end	15482149
		located_end	15503149		
CH322-174A04	2L	761728	782728	estimated_end	761728
		located_end	782728		
CH322-174A05	2L	21645131	21666131	estimated_end	21645131
		located_end	21666131		
CH322-174A06	3R	10125302	10146302	located_end	10125302
		estimated_end	10146302		
CH322-174A07	X	13580192	13601192	located_end	13580192
		estimated_end	13601192		
CH322-174A09	3R	23182398	23203398	located_end	23182398
		estimated_end	23203398		
CH322-174A11	3R	24990210	25011210	located_end	24990210
		estimated_end	25011210		
CH322-174A12	2R	10596619	10617619	estimated_end	10596619
		located_end	10617619		
CH322-174A13	2L	20401962	20422962	located_end	20401962
		estimated_end	20422962		
CH322-174A14	2L	21245788	21266788	located_end	21245788
		estimated_end	21266788		
CH322-174A15	2L	904807	925807	located_end	904807
		estimated_end	925807		
CH322-174A17	2R	20081465	20102465	located_end	20081465
		estimated_end	20102465		
CH322-174A18	2R	11127665	11148665	estimated_end	11127665
		located_end	11148665		

CH322-174A20	2L	8349968	8370968	located_end	8349968
		estimated_end	8370968		
CH322-174A21	ArmU	3684670	3705670	located_end	3684670
		estimated_end	3705670		
CH322-174A22	2R	890896	911896	estimated_end	890896
		located_end	911896		
CH322-174A23	3R	732784	753784	located_end	732784
		estimated_end	753784		
CH322-174B05	3R	24377150	24398150	estimated_end	24377150
		located_end	24398150		
CH322-174B06	3R	6131342	6152342	located_end	6131342
		estimated_end	6152342		
CH322-174B07	2L	12978576	12999576	estimated_end	12978576
		located_end	12999576		
CH322-174B12	2R	12377005	12398005	located_end	12377005
		estimated_end	12398005		
CH322-174B13	X	7874120	7895120	located_end	7874120
		estimated_end	7895120		
CH322-174B15	3L	14329832	14350832	estimated_end	14329832
		located_end	14350832		
CH322-174B21	3L	13326468	13347468	located_end	13326468
		estimated_end	13347468		
CH322-174B23	2R	5594476	5615476	estimated_end	5594476
		located_end	5615476		
CH322-174C01	2R	18111991	18132991	located_end	18111991
		estimated_end	18132991		
CH322-174C03	3LHet	1528808	1549808	estimated_end	1528808
		located_end	1549808		
CH322-174C06	3R	13816984	13837984	located_end	13816984
		estimated_end	13837984		
CH322-174C07	2R	2414278	2435278	located_end	2414278
		estimated_end	2435278		
CH322-174C08	2L	15224907	15245907	located_end	15224907
		estimated_end	15245907		
CH322-174C19	3L	22034310	22055310	located_end	22034310
		estimated_end	22055310		
CH322-174C21	3R	16077805	16098805	located_end	16077805
		estimated_end	16098805		
CH322-174C22	2L	17335448	17356448	estimated_end	17335448
		located_end	17356448		
CH322-174C23	3R	14587914	14608914	estimated_end	14587914
		located_end	14608914		
CH322-174C24	3R	962567	983567	located_end	962567
		estimated_end	983567		
CH322-174D04	2R	6659470	6680470	estimated_end	6659470
		located_end	6680470		
CH322-174D05	2R	3424437	3445437	estimated_end	3424437
		located_end	3445437		
CH322-174D06	3R	20010509	20031509	estimated_end	20010509
		located_end	20031509		
CH322-174D07	2R	1583831	1604831	located_end	1583831
		estimated_end	1604831		
CH322-174D11	2L	9292870	9313870	located_end	9292870
		estimated_end	9313870		

CH322-174D12	X	20810306	20831306	located_end	20810306
		estimated_end	20831306		
CH322-174D17	X	18304781	18325781	located_end	18304781
		estimated_end	18325781		
CH322-174D21	2L	18035171	18056171	located_end	18035171
		estimated_end	18056171		
CH322-174D22	3R	9322095	9343095	estimated_end	9322095
		located_end	9343095		
CH322-174D24	2R	14507819	14528819	located_end	14507819
		estimated_end	14528819		
CH322-174E02	3L	14548845	14569845	estimated_end	14548845
		located_end	14569845		
CH322-174E03	3L	15155883	15176883	estimated_end	15155883
		located_end	15176883		
CH322-174E06	3R	18073683	18094683	estimated_end	18073683
		located_end	18094683		
CH322-174E08	X	22051696	22072696	estimated_end	22051696
		located_end	22072696		
CH322-174E13	3R	21524734	21545734	located_end	21524734
		estimated_end	21545734		
CH322-174E14	3R	21277960	21298960	estimated_end	21277960
		located_end	21298960		
CH322-174E19	2L	9305281	9326281	located_end	9305281
		estimated_end	9326281		
CH322-174E21	2R	7710455	7731455	estimated_end	7710455
		located_end	7731455		
CH322-174E22	2L	3942526	3963526	estimated_end	3942526
		located_end	3963526		
CH322-174F01	3R	27483224	27504224	located_end	27483224
		estimated_end	27504224		
CH322-174F02	X	1641122	1662122	estimated_end	1641122
		located_end	1662122		
CH322-174F06	3R	22019206	22040206	estimated_end	22019206
		located_end	22040206		
CH322-174F07	2R	13580580	13601580	located_end	13580580
		estimated_end	13601580		
CH322-174F12	3LHet	150454	171454	estimated_end	150454
		located_end	171454		
CH322-174F21	2R	17255106	17276106	located_end	17255106
		estimated_end	17276106		
CH322-174F22	X	6391865	6412865	located_end	6391865
		estimated_end	6412865		
CH322-174F23	3R	26459425	26480425	located_end	26459425
		estimated_end	26480425		
CH322-174G04	2L	774524	795524	located_end	774524
		estimated_end	795524		
CH322-174G06	3R	19687975	19708975	estimated_end	19687975
		located_end	19708975		
CH322-174G07	2R	13261146	13282146	estimated_end	13261146
		located_end	13282146		
CH322-174G24	3R	664822	685822	estimated_end	664822
		located_end	685822		
CH322-174H02	3R	6095521	6116521	located_end	6095521
		estimated_end	6116521		

CH322-174H06	2R	14548169	14569169	estimated_end	14548169
		located_end	14569169		
CH322-174H09	3R	5200371	5221371	located_end	5200371
		estimated_end	5221371		
CH322-174H24	3L	12342702	12363702	located_end	12342702
		estimated_end	12363702		
CH322-174I09	3R	12769340	12790340	located_end	12769340
		estimated_end	12790340		
CH322-174I10	2R	14261072	14282072	located_end	14261072
		estimated_end	14282072		
CH322-174I20	3R	23470472	23491472	estimated_end	23470472
		located_end	23491472		
CH322-174I21	2L	7848830	7869830	estimated_end	7848830
		located_end	7869830		
CH322-174J04	3R	21592964	21613964	estimated_end	21592964
		located_end	21613964		
CH322-174J09	3L	15849336	15870336	located_end	15849336
		estimated_end	15870336		
CH322-174J19	X	17503208	17524208	estimated_end	17503208
		located_end	17524208		
CH322-174J21	2L	14264739	14285739	located_end	14264739
		estimated_end	14285739		
CH322-174J22	X	8703805	8724805	estimated_end	8703805
		located_end	8724805		
CH322-174J23	2L	4743874	4764874	estimated_end	4743874
		located_end	4764874		
CH322-174K01	X	8350004	8371004	estimated_end	8350004
		located_end	8371004		
CH322-174K05	3LHet	1175032	1196032	estimated_end	1175032
		located_end	1196032		
CH322-174K06	3R	22145755	22166755	located_end	22145755
		estimated_end	22166755		
CH322-174K08	3L	20808604	20829604	estimated_end	20808604
		located_end	20829604		
CH322-174K12	3L	11713365	11734365	located_end	11713365
		estimated_end	11734365		
CH322-174K20	3R	22466863	22487863	estimated_end	22466863
		located_end	22487863		
CH322-174K22	X	14459135	14480135	located_end	14459135
		estimated_end	14480135		
CH322-174K23	3L	23814457	23835457	estimated_end	23814457
		located_end	23835457		
CH322-174L01	3R	7949001	7970001	located_end	7949001
		estimated_end	7970001		
CH322-174L02	3R	17371102	17392102	located_end	17371102
		estimated_end	17392102		
CH322-174L03	2R	13941392	13962392	located_end	13941392
		estimated_end	13962392		
CH322-174L05	2L	7303312	7324312	located_end	7303312
		estimated_end	7324312		
CH322-174L06	2L	15851640	15872640	estimated_end	15851640
		located_end	15872640		
CH322-174L07	3R	13348324	13369324	estimated_end	13348324
		located_end	13369324		

CH322-174L17	X	3956933	3977933	estimated_end	3956933
		located_end	3977933		
CH322-174L18	3R	1128956	1149956	estimated_end	1128956
		located_end	1149956		
CH322-174L21	2L	2064985	2085985	estimated_end	2064985
		located_end	2085985		
CH322-174L23	2L	22590992	22611992	estimated_end	22590992
		located_end	22611992		
CH322-174L24	3R	12715414	12736414	located_end	12715414
		estimated_end	12736414		
CH322-174M01	4	1073209	1094209	located_end	1073209
		estimated_end	1094209		
CH322-174M10	2R	10594436	10615436	located_end	10594436
		estimated_end	10615436		
CH322-174M17	3L	12730829	12751829	estimated_end	12730829
		located_end	12751829		
CH322-174M20	2R	19149668	19170668	estimated_end	19149668
		located_end	19170668		
CH322-174M23	3R	14769442	14790442	located_end	14769442
		estimated_end	14790442		
CH322-174M24	2R	13558358	13579358	estimated_end	13558358
		located_end	13579358		
CH322-174N01	2L	14605450	14626450	located_end	14605450
		estimated_end	14626450		
CH322-174N15	2L	4657514	4678514	estimated_end	4657514
		located_end	4678514		
CH322-174N19	2R	15274952	15295952	located_end	15274952
		estimated_end	15295952		
CH322-174N20	3R	26761434	26782434	located_end	26761434
		estimated_end	26782434		
CH322-174N22	2R	2411106	2432106	estimated_end	2411106
		located_end	2432106		
CH322-174N23	2R	5154743	5175743	estimated_end	5154743
		located_end	5175743		
CH322-174N24	2R	5073631	5094631	located_end	5073631
		estimated_end	5094631		
CH322-174O01	2L	4879729	4900729	estimated_end	4879729
		located_end	4900729		
CH322-174O02	3L	20104081	20125081	estimated_end	20104081
		located_end	20125081		
CH322-174O03	3L	16532914	16553914	estimated_end	16532914
		located_end	16553914		
CH322-174O04	3R	3717880	3738880	located_end	3717880
		estimated_end	3738880		
CH322-174O09	2L	14606237	14627237	estimated_end	14606237
		located_end	14627237		
CH322-174O17	2L	10710105	10731105	located_end	10710105
		estimated_end	10731105		
CH322-174O20	3R	6291752	6312752	located_end	6291752
		estimated_end	6312752		
CH322-174O21	X	11883547	11904547	located_end	11883547
		estimated_end	11904547		
CH322-174O23	2R	18851571	18872571	located_end	18851571
		estimated_end	18872571		

CH322-174O24	X	7626825	7647825	located_end	7626825
		estimated_end	7647825		
CH322-174P01	3L	18957020	18978020	located_end	18957020
		estimated_end	18978020		
CH322-174P02	ArmU	3537770	3558770	estimated_end	3537770
		located_end	3558770		
CH322-174P05	2L	17778390	17799390	located_end	17778390
		estimated_end	17799390		
CH322-174P06	3R	20547527	20568527	estimated_end	20547527
		located_end	20568527		
CH322-174P08	3L	3812186	3833186	estimated_end	3812186
		located_end	3833186		
CH322-174P09	2L	6826450	6847450	located_end	6826450
		estimated_end	6847450		
CH322-174P13	ArmU	5930060	5951060	located_end	5930060
		estimated_end	5951060		
CH322-174P15	3R	10264049	10285049	estimated_end	10264049
		located_end	10285049		
CH322-174P16	2L	1565649	1586649	estimated_end	1565649
		located_end	1586649		
CH322-174P18	3L	11574773	11595773	estimated_end	11574773
		located_end	11595773		
CH322-174P19	2L	20263355	20284355	located_end	20263355
		estimated_end	20284355		
CH322-174P21	3L	22072363	22093363	located_end	22072363
		estimated_end	22093363		
CH322-174P23	2R	18417400	18438400	estimated_end	18417400
		located_end	18438400		
CH322-175A13	2L	9042102	9063102	located_end	9042102
		estimated_end	9063102		
CH322-175A14	ArmU	7201389	7222389	estimated_end	7201389
		located_end	7222389		
CH322-175A19	3R	1782384	1803384	estimated_end	1782384
		located_end	1803384		
CH322-175A24	3R	7928116	7949116	estimated_end	7928116
		located_end	7949116		
CH322-175B07	2L	3916248	3937248	estimated_end	3916248
		located_end	3937248		
CH322-175B09	3L	17186911	17207911	estimated_end	17186911
		located_end	17207911		
CH322-175B10	3L	18441659	18462659	located_end	18441659
		estimated_end	18462659		
CH322-175B18	3R	17909570	17930570	located_end	17909570
		estimated_end	17930570		
CH322-175C07	X	18488832	18509832	located_end	18488832
		estimated_end	18509832		
CH322-175C12	3R	23314320	23335320	located_end	23314320
		estimated_end	23335320		
CH322-175C20	3R	22330011	22351011	estimated_end	22330011
		located_end	22351011		
CH322-175D10	X	3081162	3102162	estimated_end	3081162
		located_end	3102162		
CH322-175D12	2R	20247053	20268053	estimated_end	20247053
		located_end	20268053		

CH322-175D19	X	8546769	8567769	estimated_end	8546769
		located_end	8567769		
CH322-175D20	2L	2496855	2517855	estimated_end	2496855
		located_end	2517855		
CH322-175D23	2R	12648988	12669988	located_end	12648988
		estimated_end	12669988		
CH322-175D24	3L	21108267	21129267	located_end	21108267
		estimated_end	21129267		
CH322-175E07	3R	14150785	14171785	estimated_end	14150785
		located_end	14171785		
CH322-175E20	2L	12981035	13002035	located_end	12981035
		estimated_end	13002035		
CH322-175E21	YHet	255258	276258	located_end	255258
		estimated_end	276258		
CH322-175F18	3R	13813276	13834276	located_end	13813276
		estimated_end	13834276		
CH322-175F23	3R	7059615	7080615	estimated_end	7059615
		located_end	7080615		
CH322-175G08	3L	7066401	7087401	estimated_end	7066401
		located_end	7087401		
CH322-175G14	2L	15004410	15025410	located_end	15004410
		estimated_end	15025410		
CH322-175H01	2L	2265613	2286613	estimated_end	2265613
		located_end	2286613		
CH322-175H05	3L	21441111	21462111	estimated_end	21441111
		located_end	21462111		
CH322-175H14	3R	140623	161623	estimated_end	140623
		located_end	161623		
CH322-175H16	2R	11208253	11229253	located_end	11208253
		estimated_end	11229253		
CH322-175H23	3R	17326651	17347651	located_end	17326651
		estimated_end	17347651		
CH322-175I03	3L	9927856	9948856	estimated_end	9927856
		located_end	9948856		
CH322-175I07	3R	17349868	17370868	located_end	17349868
		estimated_end	17370868		
CH322-175I23	3R	12864963	12885963	estimated_end	12864963
		located_end	12885963		
CH322-175I24	3L	11039751	11060751	estimated_end	11039751
		located_end	11060751		
CH322-175J19	3R	14014874	14035874	estimated_end	14014874
		located_end	14035874		
CH322-175J23	3L	1169777	1190777	located_end	1169777
		estimated_end	1190777		
CH322-175J24	3R	10233936	10254936	located_end	10233936
		estimated_end	10254936		
CH322-175K08	2R	12220739	12241739	estimated_end	12220739
		located_end	12241739		
CH322-175K10	3L	10256070	10277070	estimated_end	10256070
		located_end	10277070		
CH322-175K14	2R	8162213	8183213	estimated_end	8162213
		located_end	8183213		
CH322-175K15	3R	23201613	23222613	located_end	23201613
		estimated_end	23222613		

CH322-175K20	3R	4731357	4752357	estimated_end	4731357
		located_end	4752357		
CH322-175K23	3R	20453617	20474617	estimated_end	20453617
		located_end	20474617		
CH322-175K24	3R	26230790	26251790	estimated_end	26230790
		located_end	26251790		
CH322-175L07	X	7292433	7313433	estimated_end	7292433
		located_end	7313433		
CH322-175L08	3L	9535833	9556833	located_end	9535833
		estimated_end	9556833		
CH322-175L09	3L	22506379	22527379	located_end	22506379
		estimated_end	22527379		
CH322-175L14	3L	16893981	16914981	located_end	16893981
		estimated_end	16914981		
CH322-175L20	X	12347268	12368268	located_end	12347268
		estimated_end	12368268		
CH322-175L22	3L	6658637	6679637	located_end	6658637
		estimated_end	6679637		
CH322-175M01	2L	20556721	20577721	located_end	20556721
		estimated_end	20577721		
CH322-175M02	2L	10947687	10968687	estimated_end	10947687
		located_end	10968687		
CH322-175M06	3R	23692805	23713805	estimated_end	23692805
		located_end	23713805		
CH322-175M08	X	8725330	8746330	estimated_end	8725330
		located_end	8746330		
CH322-175M10	2L	16850047	16871047	estimated_end	16850047
		located_end	16871047		
CH322-175M12	2L	12761649	12782649	located_end	12761649
		estimated_end	12782649		
CH322-175M19	2R	11121086	11142086	estimated_end	11121086
		located_end	11142086		
CH322-175M23	2R	5535027	5556027	estimated_end	5535027
		located_end	5556027		
CH322-175M24	2R	11909356	11930356	located_end	11909356
		estimated_end	11930356		
CH322-175N03	X	2527297	2548297	located_end	2527297
		estimated_end	2548297		
CH322-175N07	3LHet	151836	172836	estimated_end	151836
		located_end	172836		
CH322-175N08	2L	8796163	8817163	estimated_end	8796163
		located_end	8817163		
CH322-175N09	2L	16163249	16184249	located_end	16163249
		estimated_end	16184249		
CH322-175N20	X	10610366	10631366	located_end	10610366
		estimated_end	10631366		
CH322-175N24	3R	20708010	20729010	estimated_end	20708010
		located_end	20729010		
CH322-175O03	3R	21645592	21666592	located_end	21645592
		estimated_end	21666592		
CH322-175O12	X	20568019	20589019	estimated_end	20568019
		located_end	20589019		
CH322-175O19	3R	20275341	20296341	estimated_end	20275341
		located_end	20296341		

CH322-175O22	3R	6600668	6621668	estimated_end	6600668
		located_end	6621668		
CH322-175P13	2L	2934194	2955194	estimated_end	2934194
		located_end	2955194		
CH322-175P19	2L	5215837	5236837	located_end	5215837
		estimated_end	5236837		
CH322-175P20	2L	10961965	10982965	located_end	10961965
		estimated_end	10982965		
CH322-175P21	2R	5988492	6009492	estimated_end	5988492
		located_end	6009492		
CH322-175P22	3R	2595730	2616730	estimated_end	2595730
		located_end	2616730		
CH322-176A08	2L	21019464	21040464	located_end	21019464
		estimated_end	21040464		
CH322-176A09	2L	5053131	5074131	located_end	5053131
		estimated_end	5074131		
CH322-176A15	2R	12953378	12974378	located_end	12953378
		estimated_end	12974378		
CH322-176A21	3R	15815711	15836711	estimated_end	15815711
		located_end	15836711		
CH322-176B02	2RHet	1089900	1110900	located_end	1089900
		estimated_end	1110900		
CH322-176B03	2L	6765849	6786849	estimated_end	6765849
		located_end	6786849		
CH322-176B04	3L	10108961	10129961	estimated_end	10108961
		located_end	10129961		
CH322-176B07	X	16461305	16482305	estimated_end	16461305
		located_end	16482305		
CH322-176B10	4	831429	852429	estimated_end	831429
		located_end	852429		
CH322-176B11	3R	23207284	23228284	located_end	23207284
		estimated_end	23228284		
CH322-176B12	3L	18597731	18618731	located_end	18597731
		estimated_end	18618731		
CH322-176B13	X	20483210	20504210	located_end	20483210
		estimated_end	20504210		
CH322-176B14	2R	1349227	1370227	estimated_end	1349227
		located_end	1370227		
CH322-176B15	3L	13925032	13946032	located_end	13925032
		estimated_end	13946032		
CH322-176B19	3L	13068332	13089332	estimated_end	13068332
		located_end	13089332		
CH322-176C07	3R	23613663	23634663	estimated_end	23613663
		located_end	23634663		
CH322-176C11	3R	532183	553183	located_end	532183
		estimated_end	553183		
CH322-176C12	3L	21108260	21129260	located_end	21108260
		estimated_end	21129260		
CH322-176D07	3L	532157	553157	located_end	532157
		estimated_end	553157		
CH322-176D12	X	7728585	7749585	located_end	7728585
		estimated_end	7749585		
CH322-176E02	3R	27430914	27451914	estimated_end	27430914
		located_end	27451914		

CH322-176E11	2L	19240608	19261608	estimated_end	19240608
		located_end	19261608		
CH322-176E12	2L	5159223	5180223	estimated_end	5159223
		located_end	5180223		
CH322-176E13	4	498961	519961	located_end	498961
		estimated_end	519961		
CH322-176E14	3R	1237983	1258983	located_end	1237983
		estimated_end	1258983		
CH322-176E20	X	15161501	15182501	estimated_end	15161501
		located_end	15182501		
CH322-176E21	2L	6420519	6441519	located_end	6420519
		estimated_end	6441519		
CH322-176E24	3R	12814414	12835414	estimated_end	12814414
		located_end	12835414		
CH322-176F02	X	5883047	5904047	located_end	5883047
		estimated_end	5904047		
CH322-176F13	2L	8349452	8370452	located_end	8349452
		estimated_end	8370452		
CH322-176F14	3L	13248087	13269087	located_end	13248087
		estimated_end	13269087		
CH322-176F15	X	21995886	22016886	located_end	21995886
		estimated_end	22016886		
CH322-176F16	2L	20794064	20815064	estimated_end	20794064
		located_end	20815064		
CH322-176F24	3L	3740147	3761147	estimated_end	3740147
		located_end	3761147		
CH322-176G03	3R	1998097	2019097	estimated_end	1998097
		located_end	2019097		
CH322-176H02	3L	13200058	13221058	located_end	13200058
		estimated_end	13221058		
CH322-176H06	3R	17808868	17829868	estimated_end	17808868
		located_end	17829868		
CH322-176H09	3L	15152304	15173304	located_end	15152304
		estimated_end	15173304		
CH322-176H13	2R	1586343	1607343	estimated_end	1586343
		located_end	1607343		
CH322-176H24	3R	16753967	16774967	estimated_end	16753967
		located_end	16774967		
CH322-176I09	3R	21425833	21446833	estimated_end	21425833
		located_end	21446833		
CH322-176I11	3LHet	967186	988186	estimated_end	967186
		located_end	988186		
CH322-176I13	X	19309577	19330577	located_end	19309577
		estimated_end	19330577		
CH322-176J02	ArmU	9775127	9796127	estimated_end	9775127
		located_end	9796127		
CH322-176J14	2L	14985035	15006035	estimated_end	14985035
		located_end	15006035		
CH322-176J15	3L	20211926	20232926	estimated_end	20211926
		located_end	20232926		
CH322-176J16	2L	19207692	19228692	located_end	19207692
		estimated_end	19228692		
CH322-176K15	2R	4695603	4716603	located_end	4695603
		estimated_end	4716603		

CH322-176K23	3R	21531056	21552056	located_end	21531056
		estimated_end	21552056		
CH322-176L14	2R	16696417	16717417	estimated_end	16696417
		located_end	16717417		
CH322-176L15	2L	12838678	12859678	estimated_end	12838678
		located_end	12859678		
CH322-176M08	3L	11880346	11901346	located_end	11880346
		estimated_end	11901346		
CH322-176M17	2L	18063260	18084260	estimated_end	18063260
		located_end	18084260		
CH322-176M19	2R	20587636	20608636	estimated_end	20587636
		located_end	20608636		
CH322-176N05	3L	9225300	9246300	located_end	9225300
		estimated_end	9246300		
CH322-176N06	3R	16607685	16628685	located_end	16607685
		estimated_end	16628685		
CH322-176N11	X	11850575	11871575	located_end	11850575
		estimated_end	11871575		
CH322-176N18	3L	18148381	18169381	estimated_end	18148381
		located_end	18169381		
CH322-176N19	3L	10037566	10058566	located_end	10037566
		estimated_end	10058566		
CH322-176N20	X	19237428	19258428	located_end	19237428
		estimated_end	19258428		
CH322-176O01	3R	10184884	10205884	located_end	10184884
		estimated_end	10205884		
CH322-176O16	ArmU	8552759	8573759	estimated_end	8552759
		located_end	8573759		
CH322-176P05	2R	1812658	1833658	estimated_end	1812658
		located_end	1833658		
CH322-176P06	3L	17210897	17231897	located_end	17210897
		estimated_end	17231897		
CH322-176P08	3R	14960283	14981283	estimated_end	14960283
		located_end	14981283		
CH322-176P21	2R	4771095	4792095	estimated_end	4771095
		located_end	4792095		
CH322-176P23	2L	8583971	8604971	located_end	8583971
		estimated_end	8604971		
CH322-177A02	2L	7389499	7410499	estimated_end	7389499
		located_end	7410499		
CH322-177A04	2L	14605958	14626958	estimated_end	14605958
		located_end	14626958		
CH322-177A08	3L	19303135	19324135	estimated_end	19303135
		located_end	19324135		
CH322-177A12	2L	13893884	13914884	located_end	13893884
		estimated_end	13914884		
CH322-177A24	3R	21385594	21406594	located_end	21385594
		estimated_end	21406594		
CH322-177B02	3L	13216001	13237001	located_end	13216001
		estimated_end	13237001		
CH322-177B08	X	8873599	8894599	estimated_end	8873599
		located_end	8894599		
CH322-177B10	2L	8720259	8741259	estimated_end	8720259
		located_end	8741259		

CH322-177B13	X	21783243	21804243	estimated_end	21783243
		located_end	21804243		
CH322-177B14	3R	21674595	21695595	located_end	21674595
		estimated_end	21695595		
CH322-177C07	3R	27164914	27185914	located_end	27164914
		estimated_end	27185914		
CH322-177C10	X	6800575	6821575	estimated_end	6800575
		located_end	6821575		
CH322-177D02	X	15353623	15374623	located_end	15353623
		estimated_end	15374623		
CH322-177D11	3LHet	820424	841424	estimated_end	820424
		located_end	841424		
CH322-177D16	3L	20495129	20516129	estimated_end	20495129
		located_end	20516129		
CH322-177D18	3L	9630552	9651552	located_end	9630552
		estimated_end	9651552		
CH322-177E10	ArmU	5677681	5698681	estimated_end	5677681
		located_end	5698681		
CH322-177E14	3R	13903059	13924059	located_end	13903059
		estimated_end	13924059		
CH322-177E24	3L	20460365	20481365	located_end	20460365
		estimated_end	20481365		
CH322-177F02	3R	9557380	9578380	located_end	9557380
		estimated_end	9578380		
CH322-177F03	X	218471	239471	located_end	218471
		estimated_end	239471		
CH322-177F06	2R	4882254	4903254	located_end	4882254
		estimated_end	4903254		
CH322-177F10	X	17887403	17908403	estimated_end	17887403
		located_end	17908403		
CH322-177F13	2L	18574642	18595642	located_end	18574642
		estimated_end	18595642		
CH322-177F21	X	15525621	15546621	estimated_end	15525621
		located_end	15546621		
CH322-177G01	2L	5188652	5209652	estimated_end	5188652
		located_end	5209652		
CH322-177G05	3RHet	1563443	1584443	estimated_end	1563443
		located_end	1584443		
CH322-177G08	X	3488360	3509360	located_end	3488360
		estimated_end	3509360		
CH322-177G10	2R	21127730	21148730	located_end	21127730
		estimated_end	21148730		
CH322-177H01	3R	868917	889917	estimated_end	868917
		located_end	889917		
CH322-177H05	2L	17384304	17405304	located_end	17384304
		estimated_end	17405304		
CH322-177H14	ArmU	1957663	1978663	estimated_end	1957663
		located_end	1978663		
CH322-177I01	3L	17354249	17375249	located_end	17354249
		estimated_end	17375249		
CH322-177I02	3L	13698455	13719455	located_end	13698455
		estimated_end	13719455		
CH322-177I10	2L	18614409	18635409	located_end	18614409
		estimated_end	18635409		

CH322-177I24	3R	7887367	7908367	located_end	7887367
		estimated_end	7908367		
CH322-177J03	3L	19477830	19498830	located_end	19477830
		estimated_end	19498830		
CH322-177J08	2L	5500257	5521257	estimated_end	5500257
		located_end	5521257		
CH322-177K04	3R	19181846	19202846	estimated_end	19181846
		located_end	19202846		
CH322-177K05	2RHet	581433	602433	estimated_end	581433
		located_end	602433		
CH322-177K16	3LHet	2525884	2546884	estimated_end	2525884
		located_end	2546884		
CH322-177K20	3R	10003198	10024198	located_end	10003198
		estimated_end	10024198		
CH322-177L02	3L	11429375	11450375	estimated_end	11429375
		located_end	11450375		
CH322-177L03	ArmU	8438609	8459609	located_end	8438609
		estimated_end	8459609		
CH322-177L04	X	12248770	12269770	estimated_end	12248770
		located_end	12269770		
CH322-177L05	3R	26019824	26040824	estimated_end	26019824
		located_end	26040824		
CH322-177L16	X	3721322	3742322	estimated_end	3721322
		located_end	3742322		
CH322-177M03	2L	21999543	22020543	located_end	21999543
		estimated_end	22020543		
CH322-177M08	3R	11104865	11125865	estimated_end	11104865
		located_end	11125865		
CH322-177M09	3L	3097042	3118042	estimated_end	3097042
		located_end	3118042		
CH322-177M11	2R	16694425	16715425	located_end	16694425
		estimated_end	16715425		
CH322-177M17	2L	13065562	13086562	estimated_end	13065562
		located_end	13086562		
CH322-177M20	3L	16041979	16062979	estimated_end	16041979
		located_end	16062979		
CH322-177M21	3R	16947707	16968707	located_end	16947707
		estimated_end	16968707		
CH322-177M22	3R	15420284	15441284	located_end	15420284
		estimated_end	15441284		
CH322-177N04	3R	7088564	7109564	located_end	7088564
		estimated_end	7109564		
CH322-177N08	2R	8164837	8185837	located_end	8164837
		estimated_end	8185837		
CH322-177N12	2R	14523927	14544927	estimated_end	14523927
		located_end	14544927		
CH322-177N13	X	6938412	6959412	estimated_end	6938412
		located_end	6959412		
CH322-177N19	2L	9342008	9363008	estimated_end	9342008
		located_end	9363008		
CH322-177N21	2R	14330024	14351024	estimated_end	14330024
		located_end	14351024		
CH322-177O07	3R	18709505	18730505	estimated_end	18709505
		located_end	18730505		

CH322-177008	X	8653335	8674335	estimated_end	8653335
		located_end	8674335		
CH322-177009	3L	7750554	7771554	estimated_end	7750554
		located_end	7771554		
CH322-177010	3L	17359814	17380814	estimated_end	17359814
		located_end	17380814		
CH322-177018	3R	2358618	2379618	estimated_end	2358618
		located_end	2379618		
CH322-177022	3L	149132	170132	located_end	149132
		estimated_end	170132		
CH322-177023	3L	16635589	16656589	located_end	16635589
		estimated_end	16656589		
CH322-177P10	X	15546550	15567550	estimated_end	15546550
		located_end	15567550		
CH322-177P20	2R	13218420	13239420	estimated_end	13218420
		located_end	13239420		
CH322-178A01	3L	6610139	6631139	located_end	6610139
		estimated_end	6631139		
CH322-178A02	3L	22143642	22164642	located_end	22143642
		estimated_end	22164642		
CH322-178A03	3R	16232769	16253769	estimated_end	16232769
		located_end	16253769		
CH322-178A04	3L	14397252	14418252	estimated_end	14397252
		located_end	14418252		
CH322-178A11	2R	15637693	15658693	estimated_end	15637693
		located_end	15658693		
CH322-178A19	2L	16469767	16490767	located_end	16469767
		estimated_end	16490767		
CH322-178A24	3L	16450248	16471248	located_end	16450248
		estimated_end	16471248		
CH322-178B02	3L	413709	434709	estimated_end	413709
		located_end	434709		
CH322-178B04	3R	3892396	3913396	located_end	3892396
		estimated_end	3913396		
CH322-178B14	3R	3202866	3223866	estimated_end	3202866
		located_end	3223866		
CH322-178B16	X	3308288	3329288	located_end	3308288
		estimated_end	3329288		
CH322-178C01	3R	24408498	24429498	located_end	24408498
		estimated_end	24429498		
CH322-178C07	2L	6151861	6172861	located_end	6151861
		estimated_end	6172861		
CH322-178C08	2L	10172934	10193934	estimated_end	10172934
		located_end	10193934		
CH322-178C19	2R	9252424	9273424	estimated_end	9252424
		located_end	9273424		
CH322-178C20	3L	1518806	1539806	located_end	1518806
		estimated_end	1539806		
CH322-178D24	X	9903171	9924171	estimated_end	9903171
		located_end	9924171		
CH322-178E03	X	3169544	3190544	estimated_end	3169544
		located_end	3190544		
CH322-178F01	X	9970700	9991700	located_end	9970700
		estimated_end	9991700		

CH322-178F12	3R	15780191	15801191	located_end	15780191
		estimated_end	15801191		
CH322-178F19	2LHet	170866	191866	estimated_end	170866
		located_end	191866		
CH322-178F24	2L	14864009	14885009	estimated_end	14864009
		located_end	14885009		
CH322-178G01	2L	5978137	5999137	located_end	5978137
		estimated_end	5999137		
CH322-178H14	3L	5028470	5049470	located_end	5028470
		estimated_end	5049470		
CH322-178I01	2L	7553147	7574147	located_end	7553147
		estimated_end	7574147		
CH322-178J07	X	3740502	3761502	estimated_end	3740502
		located_end	3761502		
CH322-178K01	3R	10120246	10141246	located_end	10120246
		estimated_end	10141246		
CH322-178L09	3L	6380297	6401297	located_end	6380297
		estimated_end	6401297		
CH322-178M06	3R	13002607	13023607	located_end	13002607
		estimated_end	13023607		
CH322-178M18	3L	3066299	3087299	estimated_end	3066299
		located_end	3087299		
CH322-178M21	X	19246451	19267451	located_end	19246451
		estimated_end	19267451		
CH322-178N04	3R	693924	714924	located_end	693924
		estimated_end	714924		
CH322-178N11	3L	18506819	18527819	located_end	18506819
		estimated_end	18527819		
CH322-178N13	3L	19628928	19649928	estimated_end	19628928
		located_end	19649928		
CH322-178N18	2R	15254667	15275667	estimated_end	15254667
		located_end	15275667		
CH322-178O04	3R	21436 42436	21436	estimated_end	21436 located_end
CH322-178O18	3R	7571693	7592693	estimated_end	7571693
		located_end	7592693		
CH322-178O19	3R	12039739	12060739	estimated_end	12039739
		located_end	12060739		
CH322-178P04	3L	10656004	10677004	estimated_end	10656004
		located_end	10677004		
CH322-178P07	3R	4406825	4427825	located_end	4406825
		estimated_end	4427825		
CH322-178P09	3R	13575811	13596811	located_end	13575811
		estimated_end	13596811		
CH322-178P10	4	260488	281488	estimated_end	260488
		located_end	281488		
CH322-178P11	3R	14716676	14737676	estimated_end	14716676
		located_end	14737676		
CH322-178P19	3R	15586167	15607167	located_end	15586167
		estimated_end	15607167		
CH322-178P21	2L	1203096	1224096	located_end	1203096
		estimated_end	1224096		
CH322-178P24	X	16081339	16102339	located_end	16081339
		estimated_end	16102339		

CH322-179A02	2L	7252332	7273332	located_end	7252332
		estimated_end	7273332		
CH322-179A03	2L	20127692	20148692	estimated_end	20127692
		located_end	20148692		
CH322-179A09	3R	10504434	10525434	estimated_end	10504434
		located_end	10525434		
CH322-179A12	3L	2789737	2810737	estimated_end	2789737
		located_end	2810737		
CH322-179A13	2L	4537200	4558200	estimated_end	4537200
		located_end	4558200		
CH322-179A15	X	18233273	18254273	estimated_end	18233273
		located_end	18254273		
CH322-179A16	3L	3691758	3712758	estimated_end	3691758
		located_end	3712758		
CH322-179A18	X	10160866	10181866	located_end	10160866
		estimated_end	10181866		
CH322-179A20	X	2899016	2920016	estimated_end	2899016
		located_end	2920016		
CH322-179A24	ArmU	950849	971849	estimated_end	950849
		located_end	971849		
CH322-179B03	2R	20399072	20420072	estimated_end	20399072
		located_end	20420072		
CH322-179B06	2R	14097562	14118562	estimated_end	14097562
		located_end	14118562		
CH322-179B08	3R	19265892	19286892	located_end	19265892
		estimated_end	19286892		
CH322-179B11	2R	10333125	10354125	estimated_end	10333125
		located_end	10354125		
CH322-179B12	3R	3728071	3749071	located_end	3728071
		estimated_end	3749071		
CH322-179B13	2L	19983715	20004715	located_end	19983715
		estimated_end	20004715		
CH322-179B14	3L	2476529	2497529	located_end	2476529
		estimated_end	2497529		
CH322-179B15	2L	11913424	11934424	located_end	11913424
		estimated_end	11934424		
CH322-179B17	3L	3560797	3581797	located_end	3560797
		estimated_end	3581797		
CH322-179B19	2L	15070744	15091744	estimated_end	15070744
		located_end	15091744		
CH322-179B24	3L	14243622	14264622	located_end	14243622
		estimated_end	14264622		
CH322-179C07	X	17841460	17862460	estimated_end	17841460
		located_end	17862460		
CH322-179C19	X	15935334	15956334	estimated_end	15935334
		located_end	15956334		
CH322-179D02	3R	10558049	10579049	estimated_end	10558049
		located_end	10579049		
CH322-179D03	2R	14089551	14110551	located_end	14089551
		estimated_end	14110551		
CH322-179E04	3R	8128451	8149451	estimated_end	8128451
		located_end	8149451		
CH322-179E07	2L	22125753	22146753	located_end	22125753
		estimated_end	22146753		

CH322-179E09	X	13583026	13604026	estimated_end	13583026
		located_end	13604026		
CH322-179E15	X	16898183	16919183	located_end	16898183
		estimated_end	16919183		
CH322-179E21	3L	6079911	6100911	estimated_end	6079911
		located_end	6100911		
CH322-179E24	3L	11283924	11304924	estimated_end	11283924
		located_end	11304924		
CH322-179F02	X	7966526	7987526	located_end	7966526
		estimated_end	7987526		
CH322-179F04	2R	6266393	6287393	estimated_end	6266393
		located_end	6287393		
CH322-179F06	3L	22787817	22808817	located_end	22787817
		estimated_end	22808817		
CH322-179F09	3L	5560692	5581692	estimated_end	5560692
		located_end	5581692		
CH322-179F22	2R	5393637	5414637	located_end	5393637
		estimated_end	5414637		
CH322-179G02	3L	18367838	18388838	located_end	18367838
		estimated_end	18388838		
CH322-179G05	3R	26568381	26589381	located_end	26568381
		estimated_end	26589381		
CH322-179G06	2R	11467487	11488487	estimated_end	11467487
		located_end	11488487		
CH322-179H01	3L	6175420	6196420	estimated_end	6175420
		located_end	6196420		
CH322-179H02	3R	23507495	23528495	estimated_end	23507495
		located_end	23528495		
CH322-179H03	2L	2501389	2522389	located_end	2501389
		estimated_end	2522389		
CH322-179H14	X	15952919	15973919	estimated_end	15952919
		located_end	15973919		
CH322-179H17	3L	20112158	20133158	estimated_end	20112158
		located_end	20133158		
CH322-179I02	3R	26815481	26836481	located_end	26815481
		estimated_end	26836481		
CH322-179I03	3L	3303393	3324393	estimated_end	3303393
		located_end	3324393		
CH322-179I04	2R	13092012	13113012	located_end	13092012
		estimated_end	13113012		
CH322-179I05	2R	3716661	3737661	estimated_end	3716661
		located_end	3737661		
CH322-179I06	3R	26426719	26447719	estimated_end	26426719
		located_end	26447719		
CH322-179J04	3L	8504224	8525224	estimated_end	8504224
		located_end	8525224		
CH322-179K02	2RHet	1927645	1948645	located_end	1927645
		estimated_end	1948645		
CH322-179L02	X	20317701	20338701	estimated_end	20317701
		located_end	20338701		
CH322-179L03	2R	11652444	11673444	located_end	11652444
		estimated_end	11673444		
CH322-179L04	3L	1360141	1381141	located_end	1360141
		estimated_end	1381141		

CH322-179M03	2R	18537262	18558262	located_end	18537262
		estimated_end	18558262		
CH322-179M07	3R	20921334	20942334	located_end	20921334
		estimated_end	20942334		
CH322-179M09	3R	10156352	10177352	estimated_end	10156352
		located_end	10177352		
CH322-179M11	ArmU	6916410	6937410	located_end	6916410
		estimated_end	6937410		
CH322-179M24	2L	10819406	10840406	located_end	10819406
		estimated_end	10840406		
CH322-179N03	2R	5395933	5416933	located_end	5395933
		estimated_end	5416933		
CH322-179N06	2L	4159885	4180885	estimated_end	4159885
		located_end	4180885		
CH322-179N08	3R	22489725	22510725	located_end	22489725
		estimated_end	22510725		
CH322-179O08	X	17321408	17342408	located_end	17321408
		estimated_end	17342408		
CH322-179P14	3L	16230395	16251395	located_end	16230395
		estimated_end	16251395		
CH322-179P18	3L	8600069	8621069	estimated_end	8600069
		located_end	8621069		
CH322-179P22	3L	16207520	16228520	estimated_end	16207520
		located_end	16228520		
CH322-17A04	3R	3344202	3365202	located_end	3344202
		estimated_end	3365202		
CH322-17A09	3L	4308980	4329980	located_end	4308980
		estimated_end	4329980		
CH322-17A16	2L	6154362	6175362	estimated_end	6154362
		located_end	6175362		
CH322-17A24	X	20292609	20313609	estimated_end	20292609
		located_end	20313609		
CH322-17B02	ArmU	6863054	6884054	located_end	6863054
		estimated_end	6884054		
CH322-17B05	3R	3518249	3539249	located_end	3518249
		estimated_end	3539249		
CH322-17B06	3L	8053881	8074881	estimated_end	8053881
		located_end	8074881		
CH322-17B07	X	10582039	10603039	estimated_end	10582039
		located_end	10603039		
CH322-17B08	3R	16814598	16835598	located_end	16814598
		estimated_end	16835598		
CH322-17B11	2R	15171263	15192263	located_end	15171263
		estimated_end	15192263		
CH322-17B12	3R	10078410	10099410	located_end	10078410
		estimated_end	10099410		
CH322-17B16	2L	5391442	5412442	located_end	5391442
		estimated_end	5412442		
CH322-17B17	3L	17578046	17599046	estimated_end	17578046
		located_end	17599046		
CH322-17B20	2R	912733	933733	located_end	912733
		estimated_end	933733		
CH322-17B21	2L	1636476	1657476	estimated_end	1636476
		located_end	1657476		

CH322-17C10 X	21803600	21824600	located_end	21803600
	estimated_end	21824600		
CH322-17C12 2R	2473863	2494863	located_end	2473863
	estimated_end	2494863		
CH322-17C17 3L	5723788	5744788	located_end	5723788
	estimated_end	5744788		
CH322-17C18 3R	751818	772818	located_end	751818
	estimated_end	772818		
CH322-17C19 3R	758426	779426	estimated_end	758426
	located_end	779426		
CH322-17C21 3L	23974303	23995303	estimated_end	23974303
	located_end	23995303		
CH322-17C22 X	3736235	3757235	located_end	3736235
	estimated_end	3757235		
CH322-17C23 3R	16234523	16255523	located_end	16234523
	estimated_end	16255523		
CH322-17C24 3R	4243735	4264735	estimated_end	4243735
	located_end	4264735		
CH322-17D01 3R	8224990	8245990	located_end	8224990
	estimated_end	8245990		
CH322-17D07 2L	2733027	2754027	located_end	2733027
	estimated_end	2754027		
CH322-17D09 2L	9077832	9098832	estimated_end	9077832
	located_end	9098832		
CH322-17D11 3RHet	420305	441305	located_end	420305
	estimated_end	441305		
CH322-17D13 3L	3194910	3215910	estimated_end	3194910
	located_end	3215910		
CH322-17D15 3R	8025842	8046842	located_end	8025842
	estimated_end	8046842		
CH322-17D18 2LHet	16047	37047	estimated_end	16047
	located_end	37047	located_end	37047
CH322-17D21 2L	2449456	2470456	estimated_end	2449456
	located_end	2470456		
CH322-17D23 3R	2751457	2772457	located_end	2751457
	estimated_end	2772457		
CH322-17E02 3R	5167636	5188636	located_end	5167636
	estimated_end	5188636		
CH322-17E05 3R	18226757	18247757	estimated_end	18226757
	located_end	18247757		
CH322-17E07 3R	1316581	1337581	estimated_end	1316581
	located_end	1337581		
CH322-17E14 3LHet	1125922	1146922	estimated_end	1125922
	located_end	1146922		
CH322-17E15 2L	21840361	21861361	located_end	21840361
	estimated_end	21861361		
CH322-17E16 2R	16792107	16813107	estimated_end	16792107
	located_end	16813107		
CH322-17E17 3L	23235157	23256157	estimated_end	23235157
	located_end	23256157		
CH322-17E18 XHet	37787	58787	estimated_end	37787
	located_end	58787	located_end	58787
CH322-17E20 3L	5259824	5280824	estimated_end	5259824
	located_end	5280824		
CH322-17E22 ArmU	6590448	6611448	located_end	6590448
	estimated_end	6611448		

CH322-17E23 2RHet	395706	416706	located_end	395706
	estimated_end	416706		
CH322-17E24 3L	9064452	9085452	located_end	9064452
	estimated_end	9085452		
CH322-17F08 2L	17956538	17977538	estimated_end	17956538
	located_end	17977538		
CH322-17F09 3L	8239446	8260446	located_end	8239446
	estimated_end	8260446		
CH322-17F14 2L	22276567	22297567	located_end	22276567
	estimated_end	22297567		
CH322-17F17 3L	19055384	19076384	located_end	19055384
	estimated_end	19076384		
CH322-17F21 2L	18667327	18688327	located_end	18667327
	estimated_end	18688327		
CH322-17G01 2R	2774958	2795958	estimated_end	2774958
	located_end	2795958		
CH322-17G04 3R	6611075	6632075	located_end	6611075
	estimated_end	6632075		
CH322-17G07 3L	836311	857311	estimated_end	836311
	located_end	857311		
CH322-17G08 3R	22642	43642	located_end	22642
	estimated_end	43642		
CH322-17G09 2L	21279460	21300460	estimated_end	21279460
	located_end	21300460		
CH322-17G14 3R	5524319	5545319	estimated_end	5524319
	located_end	5545319		
CH322-17G15 3R	27443465	27464465	located_end	27443465
	estimated_end	27464465		
CH322-17G18 2L	9932568	9953568	located_end	9932568
	estimated_end	9953568		
CH322-17G19 2L	6417240	6438240	located_end	6417240
	estimated_end	6438240		
CH322-17G20 3R	26410264	26431264	located_end	26410264
	estimated_end	26431264		
CH322-17H08 4	788213	809213	estimated_end	788213
	located_end	809213		
CH322-17H11 3R	8973966	8994966	estimated_end	8973966
	located_end	8994966		
CH322-17H13 2R	14900226	14921226	located_end	14900226
	estimated_end	14921226		
CH322-17H15 2L	1028655	1049655	located_end	1028655
	estimated_end	1049655		
CH322-17H16 3RHet	1865480	1886480	estimated_end	1865480
	located_end	1886480		
CH322-17H17 3R	15082657	15103657	located_end	15082657
	estimated_end	15103657		
CH322-17H18 3R	22789234	22810234	located_end	22789234
	estimated_end	22810234		
CH322-17H19 X	19954433	19975433	estimated_end	19954433
	located_end	19975433		
CH322-17H21 2R	3792355	3813355	estimated_end	3792355
	located_end	3813355		
CH322-17I07 2L	13945739	13966739	located_end	13945739
	estimated_end	13966739		

CH322-17I08 4	244751	265751	located_end	244751
	estimated_end	265751		
CH322-17I14 X	11479535	11500535	estimated_end	11479535
	located_end	11500535		
CH322-17I16 3R	9912315	9933315	located_end	9912315
	estimated_end	9933315		
CH322-17I17 2L	17125406	17146406	located_end	17125406
	estimated_end	17146406		
CH322-17I24 ArmU	412112	433112	located_end	412112
	estimated_end	433112		
CH322-17J11 2RHet	2384254	2405254	located_end	2384254
	estimated_end	2405254		
CH322-17J15 2R	8043430	8064430	located_end	8043430
	estimated_end	8064430		
CH322-17J18 3R	26274319	26295319	estimated_end	26274319
	located_end	26295319		
CH322-17J19 2L	395724	416724	estimated_end	395724
	located_end	416724		
CH322-17J22 2L	17533477	17554477	estimated_end	17533477
	located_end	17554477		
CH322-17K01 3L	14897321	14918321	estimated_end	14897321
	located_end	14918321		
CH322-17K06 X	7822830	7843830	located_end	7822830
	estimated_end	7843830		
CH322-17K07 4	1270490	1291490	estimated_end	1270490
	located_end	1291490		
CH322-17K08 2L	19319109	19340109	located_end	19319109
	estimated_end	19340109		
CH322-17K09 3L	7318069	7339069	estimated_end	7318069
	located_end	7339069		
CH322-17K10 3R	18360386	18381386	estimated_end	18360386
	located_end	18381386		
CH322-17K19 2R	4729517	4750517	located_end	4729517
	estimated_end	4750517		
CH322-17K20 X	21184090	21205090	located_end	21184090
	estimated_end	21205090		
CH322-17L11 3L	2091124	2112124	located_end	2091124
	estimated_end	2112124		
CH322-17L19 2R	5257864	5278864	estimated_end	5257864
	located_end	5278864		
CH322-17L23 3R	8118730	8139730	located_end	8118730
	estimated_end	8139730		
CH322-17L24 2R	2972198	2993198	located_end	2972198
	estimated_end	2993198		
CH322-17M07 3R	26646394	26667394	estimated_end	26646394
	located_end	26667394		
CH322-17M10 3LHet	320527	341527	located_end	320527
	estimated_end	341527		
CH322-17M13 3R	25073544	25094544	estimated_end	25073544
	located_end	25094544		
CH322-17M15 3L	20237854	20258854	located_end	20237854
	estimated_end	20258854		
CH322-17M21 2R	8052640	8073640	located_end	8052640
	estimated_end	8073640		

CH322-17N12 ArmU	9363955	9384955	estimated_end	9363955	
	located_end	9384955			
CH322-17N16 X	6640827	6661827	located_end	6640827	
	estimated_end	6661827			
CH322-17N21 2L	17698565	17719565	estimated_end	17698565	
	located_end	17719565			
CH322-17N22 2R	15099744	15120744	located_end	15099744	
	estimated_end	15120744			
CH322-17O15 3R	8009150	8030150	located_end	8009150	
	estimated_end	8030150			
CH322-17O16 3R	18816799	18837799	estimated_end	18816799	
	located_end	18837799			
CH322-17O20 3R	12193509	12214509	located_end	12193509	
	estimated_end	12214509			
CH322-17O23 3LHet	1378941	1399941	located_end	1378941	
	estimated_end	1399941			
CH322-17P02 3L	7775727	7796727	estimated_end	7775727	
	located_end	7796727			
CH322-17P08 3L	20727910	20748910	located_end	20727910	
	estimated_end	20748910			
CH322-17P11 X	10582039	10603039	estimated_end	10582039	
	located_end	10603039			
CH322-17P13 3L	23127728	23148728	estimated_end	23127728	
	located_end	23148728			
CH322-17P15 2R	11872964	11893964	estimated_end	11872964	
	located_end	11893964			
CH322-17P16 2R	9736377	9757377	estimated_end	9736377	
	located_end	9757377			
CH322-17P17 2R	1657296	1678296	located_end	1657296	
	estimated_end	1678296			
CH322-17P19 3L	5351784	5372784	located_end	5351784	
	estimated_end	5372784			
CH322-17P23 4	614960	635960	estimated_end	614960	
	located_end	635960			
CH322-180A06	3R	23793342	23814342	estimated_end	23793342
	located_end	23814342			
CH322-180A11	2R	19595856	19616856	located_end	19595856
	estimated_end	19616856			
CH322-180A20	2L	11699587	11720587	located_end	11699587
	estimated_end	11720587			
CH322-180A23	2R	6002838	6023838	estimated_end	6002838
	located_end	6023838			
CH322-180A24	X	11257331	11278331	located_end	11257331
	estimated_end	11278331			
CH322-180B02	X	20447286	20468286	estimated_end	20447286
	located_end	20468286			
CH322-180B03	X	7690715	7711715	located_end	7690715
	estimated_end	7711715			
CH322-180B10	2L	6910365	6931365	located_end	6910365
	estimated_end	6931365			
CH322-180C01	3L	25011 46011	estimated_end	25011	located_end
	46011				
CH322-180C07	2L	11993498	12014498	estimated_end	11993498
	located_end	12014498			

CH322-180C20	2R	13128176	13149176	estimated_end	13128176
		located_end	13149176		
CH322-180D14	3R	27828677	27849677	estimated_end	27828677
		located_end	27849677		
CH322-180D21	3L	7661738	7682738	located_end	7661738
		estimated_end	7682738		
CH322-180E01	3R	4824121	4845121	located_end	4824121
		estimated_end	4845121		
CH322-180E02	3L	16269568	16290568	located_end	16269568
		estimated_end	16290568		
CH322-180E03	3L	4737435	4758435	estimated_end	4737435
		located_end	4758435		
CH322-180E14	3R	16450337	16471337	estimated_end	16450337
		located_end	16471337		
CH322-180E24	3R	14998835	15019835	located_end	14998835
		estimated_end	15019835		
CH322-180F01	3L	7118568	7139568	estimated_end	7118568
		located_end	7139568		
CH322-180F20	3R	3265209	3286209	estimated_end	3265209
		located_end	3286209		
CH322-180G11	3L	18527163	18548163	estimated_end	18527163
		located_end	18548163		
CH322-180H14	2R	2481557	2502557	estimated_end	2481557
		located_end	2502557		
CH322-180I06	X	22001956	22022956	located_end	22001956
		estimated_end	22022956		
CH322-180J01	3L	11398464	11419464	estimated_end	11398464
		located_end	11419464		
CH322-180J02	2R	10241694	10262694	located_end	10241694
		estimated_end	10262694		
CH322-180K01	2R	5426290	5447290	located_end	5426290
		estimated_end	5447290		
CH322-180K12	ArmU	9491646	9512646	located_end	9491646
		estimated_end	9512646		
CH322-180L04	2R	1745996	1766996	located_end	1745996
		estimated_end	1766996		
CH322-180L09	ArmU	64915 85915	located_end 64915	estimated_end	85915
CH322-180L10	2R	1424725	1445725	located_end	1424725
		estimated_end	1445725		
CH322-180M01	2L	21270762	21291762	estimated_end	21270762
		located_end	21291762		
CH322-180M04	3L	12639342	12660342	located_end	12639342
		estimated_end	12660342		
CH322-180M10	3R	23895811	23916811	estimated_end	23895811
		located_end	23916811		
CH322-180M21	X	7696622	7717622	estimated_end	7696622
		located_end	7717622		
CH322-180N03	3R	7758287	7779287	estimated_end	7758287
		located_end	7779287		
CH322-180N10	X	16412640	16433640	estimated_end	16412640
		located_end	16433640		
CH322-180N19	3L	18770672	18791672	estimated_end	18770672
		located_end	18791672		

CH322-180001	X	1792838	1813838	estimated_end	1792838
		located_end	1813838		
CH322-180003	2R	19070537	19091537	estimated_end	19070537
		located_end	19091537		
CH322-180009	3R	27735971	27756971	located_end	27735971
		estimated_end	27756971		
CH322-180014	3R	22342652	22363652	estimated_end	22342652
		located_end	22363652		
CH322-180016	3R	22960937	22981937	located_end	22960937
		estimated_end	22981937		
CH322-180020	3R	8614696	8635696	located_end	8614696
		estimated_end	8635696		
CH322-180024	3L	4959057	4980057	located_end	4959057
		estimated_end	4980057		
CH322-180P02	2R	7959254	7980254	estimated_end	7959254
		located_end	7980254		
CH322-180P06	3R	20883241	20904241	located_end	20883241
		estimated_end	20904241		
CH322-180P09	2L	20420023	20441023	located_end	20420023
		estimated_end	20441023		
CH322-180P11	2L	1660142	1681142	located_end	1660142
		estimated_end	1681142		
CH322-180P15	3R	4786872	4807872	estimated_end	4786872
		located_end	4807872		
CH322-180P16	2L	9271291	9292291	located_end	9271291
		estimated_end	9292291		
CH322-180P20	2L	3673376	3694376	located_end	3673376
		estimated_end	3694376		
CH322-180P22	3L	5918125	5939125	estimated_end	5918125
		located_end	5939125		
CH322-180P23	3L	4656780	4677780	estimated_end	4656780
		located_end	4677780		
CH322-181A02	3RHet	2140657	2161657	estimated_end	2140657
		located_end	2161657		
CH322-181A03	3R	14653546	14674546	estimated_end	14653546
		located_end	14674546		
CH322-181A12	3L	14139936	14160936	located_end	14139936
		estimated_end	14160936		
CH322-181A20	2R	20738728	20759728	estimated_end	20738728
		located_end	20759728		
CH322-181A22	3L	21451544	21472544	located_end	21451544
		estimated_end	21472544		
CH322-181B02	2L	7102506	7123506	estimated_end	7102506
		located_end	7123506		
CH322-181B04	3R	16291336	16312336	located_end	16291336
		estimated_end	16312336		
CH322-181B08	2L	11532343	11553343	estimated_end	11532343
		located_end	11553343		
CH322-181B16	X	12266808	12287808	estimated_end	12266808
		located_end	12287808		
CH322-181B19	2R	5918893	5939893	estimated_end	5918893
		located_end	5939893		
CH322-181B20	X	5048293	5069293	located_end	5048293
		estimated_end	5069293		

CH322-181B24	3R	17968589	17989589	located_end	17968589
		estimated_end	17989589		
CH322-181C06	2L	12529796	12550796	estimated_end	12529796
		located_end	12550796		
CH322-181C07	2L	19745927	19766927	located_end	19745927
		estimated_end	19766927		
CH322-181C19	4	624716	645716	located_end	624716
		estimated_end	645716		
CH322-181D01	2R	2982700	3003700	estimated_end	2982700
		located_end	3003700		
CH322-181D12	3L	6393014	6414014	located_end	6393014
		estimated_end	6414014		
CH322-181E14	3R	22343322	22364322	estimated_end	22343322
		located_end	22364322		
CH322-181E24	3L	12355421	12376421	located_end	12355421
		estimated_end	12376421		
CH322-181F01	2R	15143023	15164023	estimated_end	15143023
		located_end	15164023		
CH322-181F02	3L	14037375	14058375	located_end	14037375
		estimated_end	14058375		
CH322-181F03	3R	26424143	26445143	estimated_end	26424143
		located_end	26445143		
CH322-181F04	ArmU	1068853	1089853	estimated_end	1068853
		located_end	1089853		
CH322-181F13	3L	10198460	10219460	located_end	10198460
		estimated_end	10219460		
CH322-181F20	X	19115011	19136011	located_end	19115011
		estimated_end	19136011		
CH322-181G01	3L	191509	212509	estimated_end	191509
		located_end	212509		
CH322-181G16	X	21783090	21804090	estimated_end	21783090
		located_end	21804090		
CH322-181H01	2R	11164494	11185494	estimated_end	11164494
		located_end	11185494		
CH322-181J01	3L	19080046	19101046	estimated_end	19080046
		located_end	19101046		
CH322-181K01	3L	4399846	4420846	estimated_end	4399846
		located_end	4420846		
CH322-181K13	3R	17117906	17138906	estimated_end	17117906
		located_end	17138906		
CH322-181L03	ArmU	9180745	9201745	located_end	9180745
		estimated_end	9201745		
CH322-181L06	3R	21939080	21960080	estimated_end	21939080
		located_end	21960080		
CH322-181L14	X	2664388	2685388	estimated_end	2664388
		located_end	2685388		
CH322-181L24	3L	7641006	7662006	located_end	7641006
		estimated_end	7662006		
CH322-181M04	X	16901551	16922551	estimated_end	16901551
		located_end	16922551		
CH322-181M05	X	1972343	1993343	located_end	1972343
		estimated_end	1993343		
CH322-181M08	3L	10290712	10311712	estimated_end	10290712
		located_end	10311712		

CH322-181M11	2R	4933739	4954739	located_end	4933739
		estimated_end	4954739		
CH322-181M18	3L	22387939	22408939	located_end	22387939
		estimated_end	22408939		
CH322-181M23	2R	7250607	7271607	located_end	7250607
		estimated_end	7271607		
CH322-181M24	3L	14481684	14502684	located_end	14481684
		estimated_end	14502684		
CH322-181N03	3L	11356503	11377503	estimated_end	11356503
		located_end	11377503		
CH322-181N05	2R	15131963	15152963	located_end	15131963
		estimated_end	15152963		
CH322-181N07	ArmU	3412200	3433200	estimated_end	3412200
		located_end	3433200		
CH322-181N19	4	309904	330904	estimated_end	309904
		located_end	330904		
CH322-181O02	3R	25286672	25307672	located_end	25286672
		estimated_end	25307672		
CH322-181O03	2RHet	2789594	2810594	estimated_end	2789594
		located_end	2810594		
CH322-181O05	X	9646168	9667168	located_end	9646168
		estimated_end	9667168		
CH322-181O06	2R	20234024	20255024	located_end	20234024
		estimated_end	20255024		
CH322-181O19	3R	11500001	11521001	estimated_end	11500001
		located_end	11521001		
CH322-181P02	X	16018502	16039502	located_end	16018502
		estimated_end	16039502		
CH322-181P07	X	11805154	11826154	estimated_end	11805154
		located_end	11826154		
CH322-181P10	3R	1856726	1877726	located_end	1856726
		estimated_end	1877726		
CH322-181P14	3R	7955847	7976847	estimated_end	7955847
		located_end	7976847		
CH322-181P16	3L	2211723	2232723	located_end	2211723
		estimated_end	2232723		
CH322-181P17	2L	1072788	1093788	located_end	1072788
		estimated_end	1093788		
CH322-181P18	2R	6732842	6753842	estimated_end	6732842
		located_end	6753842		
CH322-181P20	2R	11568708	11589708	located_end	11568708
		estimated_end	11589708		
CH322-181P21	3L	5387680	5408680	located_end	5387680
		estimated_end	5408680		
CH322-182A04	X	10578388	10599388	estimated_end	10578388
		located_end	10599388		
CH322-182A10	X	10778470	10799470	estimated_end	10778470
		located_end	10799470		
CH322-182A16	3R	16538668	16559668	located_end	16538668
		estimated_end	16559668		
CH322-182A19	3R	18042210	18063210	located_end	18042210
		estimated_end	18063210		
CH322-182B03	2R	8327807	8348807	estimated_end	8327807
		located_end	8348807		

CH322-182B08	3L	5164652	5185652	located_end	5164652
		estimated_end	5185652		
CH322-182B18	2L	8229151	8250151	located_end	8229151
		estimated_end	8250151		
CH322-182C07	X	5444004	5465004	located_end	5444004
		estimated_end	5465004		
CH322-182C24	3R	17943387	17964387	located_end	17943387
		estimated_end	17964387		
CH322-182D08	X	21214382	21235382	located_end	21214382
		estimated_end	21235382		
CH322-182D11	2L	16872445	16893445	estimated_end	16872445
		located_end	16893445		
CH322-182D22	X	16801704	16822704	located_end	16801704
		estimated_end	16822704		
CH322-182E01	3L	15483789	15504789	located_end	15483789
		estimated_end	15504789		
CH322-182E05	3L	19116791	19137791	estimated_end	19116791
		located_end	19137791		
CH322-182E06	2L	8681498	8702498	located_end	8681498
		estimated_end	8702498		
CH322-182E23	X	15261688	15282688	estimated_end	15261688
		located_end	15282688		
CH322-182F02	2R	27557 48557	27557	located_end	27557
			estimated_end	48557	
CH322-182F04	2R	10914545	10935545	estimated_end	10914545
		located_end	10935545		
CH322-182F08	3R	23719482	23740482	estimated_end	23719482
		located_end	23740482		
CH322-182F16	X	2643866	2664866	located_end	2643866
		estimated_end	2664866		
CH322-182F20	3L	19116578	19137578	estimated_end	19116578
		located_end	19137578		
CH322-182F21	3R	4731507	4752507	estimated_end	4731507
		located_end	4752507		
CH322-182F23	2L	6193470	6214470	located_end	6193470
		estimated_end	6214470		
CH322-182F24	3L	70173 91173	70173	estimated_end	70173
			located_end	91173	
CH322-182G01	X	8696518	8717518	estimated_end	8696518
		located_end	8717518		
CH322-182H01	2R	8777105	8798105	located_end	8777105
		estimated_end	8798105		
CH322-182H06	X	5279521	5300521	located_end	5279521
		estimated_end	5300521		
CH322-182H09	3R	21530657	21551657	located_end	21530657
		estimated_end	21551657		
CH322-182H10	2R	5920327	5941327	estimated_end	5920327
		located_end	5941327		
CH322-182H22	3L	3728275	3749275	located_end	3728275
		estimated_end	3749275		
CH322-182H24	2R	14914374	14935374	estimated_end	14914374
		located_end	14935374		
CH322-182J23	2L	18493738	18514738	estimated_end	18493738
		located_end	18514738		

CH322-182K06	2R	3627395	3648395	located_end	3627395
		estimated_end	3648395		
CH322-182K18	2L	12943256	12964256	estimated_end	12943256
		located_end	12964256		
CH322-182K23	3L	18620562	18641562	located_end	18620562
		estimated_end	18641562		
CH322-182L18	2R	13149631	13170631	located_end	13149631
		estimated_end	13170631		
CH322-182L22	X	22307396	22328396	estimated_end	22307396
		located_end	22328396		
CH322-182L23	2L	4011771	4032771	located_end	4011771
		estimated_end	4032771		
CH322-182M03	3R	7136917	7157917	located_end	7136917
		estimated_end	7157917		
CH322-182M05	X	4815161	4836161	located_end	4815161
		estimated_end	4836161		
CH322-182M08	2L	17628255	17649255	located_end	17628255
		estimated_end	17649255		
CH322-182M15	X	8846152	8867152	estimated_end	8846152
		located_end	8867152		
CH322-182M16	2R	18045351	18066351	estimated_end	18045351
		located_end	18066351		
CH322-182M22	2L	15941390	15962390	estimated_end	15941390
		located_end	15962390		
CH322-182M23	3L	13350428	13371428	estimated_end	13350428
		located_end	13371428		
CH322-182N02	2L	856845	877845	located_end	856845
		estimated_end	877845		
CH322-182N11	X	8824024	8845024	located_end	8824024
		estimated_end	8845024		
CH322-182N12	2R	11929884	11950884	located_end	11929884
		estimated_end	11950884		
CH322-182N14	3R	23604920	23625920	estimated_end	23604920
		located_end	23625920		
CH322-182N18	2L	3324598	3345598	estimated_end	3324598
		located_end	3345598		
CH322-182O01	3R	12294131	12315131	estimated_end	12294131
		located_end	12315131		
CH322-182O02	3L	8612993	8633993	estimated_end	8612993
		located_end	8633993		
CH322-182O03	3L	19649370	19670370	estimated_end	19649370
		located_end	19670370		
CH322-182O04	3R	950486	971486	estimated_end	950486
		located_end	971486		
CH322-182O07	X	14528485	14549485	located_end	14528485
		estimated_end	14549485		
CH322-182O08	3R	6942495	6963495	estimated_end	6942495
		located_end	6963495		
CH322-182O17	3R	16472373	16493373	estimated_end	16472373
		located_end	16493373		
CH322-182O20	2L	6890159	6911159	located_end	6890159
		estimated_end	6911159		
CH322-182O22	2R	16761769	16782769	estimated_end	16761769
		located_end	16782769		

CH322-182P06	3R	13521199	13542199	estimated_end	13521199
		located_end	13542199		
CH322-182P07	3LHet	463869	484869	located_end	463869
		estimated_end	484869		
CH322-182P08	2R	17007928	17028928	estimated_end	17007928
		located_end	17028928		
CH322-182P09	3R	1704248	1725248	estimated_end	1704248
		located_end	1725248		
CH322-182P10	3R	17001028	17022028	estimated_end	17001028
		located_end	17022028		
CH322-182P11	3L	10458738	10479738	located_end	10458738
		estimated_end	10479738		
CH322-182P12	3R	6748872	6769872	estimated_end	6748872
		located_end	6769872		
CH322-182P19	3R	17744399	17765399	estimated_end	17744399
		located_end	17765399		
CH322-182P21	3R	25514679	25535679	estimated_end	25514679
		located_end	25535679		
CH322-183A08	X	15072073	15093073	estimated_end	15072073
		located_end	15093073		
CH322-183A19	2R	20988343	21009343	estimated_end	20988343
		located_end	21009343		
CH322-183B05	3L	19453066	19474066	estimated_end	19453066
		located_end	19474066		
CH322-183C03	X	17911869	17932869	located_end	17911869
		estimated_end	17932869		
CH322-183C04	2R	16678527	16699527	located_end	16678527
		estimated_end	16699527		
CH322-183C07	3R	3489522	3510522	estimated_end	3489522
		located_end	3510522		
CH322-183C09	2R	15431932	15452932	estimated_end	15431932
		located_end	15452932		
CH322-183D06	ArmU	8007444	8028444	located_end	8007444
		estimated_end	8028444		
CH322-183E03	3L	17873537	17894537	located_end	17873537
		estimated_end	17894537		
CH322-183E05	3R	10808703	10829703	located_end	10808703
		estimated_end	10829703		
CH322-183E06	3L	1736989	1757989	located_end	1736989
		estimated_end	1757989		
CH322-183E08	3L	14696222	14717222	estimated_end	14696222
		located_end	14717222		
CH322-183E12	3L	2797438	2818438	estimated_end	2797438
		located_end	2818438		
CH322-183E21	3L	5017368	5038368	located_end	5017368
		estimated_end	5038368		
CH322-183F10	2L	18192968	18213968	estimated_end	18192968
		located_end	18213968		
CH322-183G04	2R	14709877	14730877	estimated_end	14709877
		located_end	14730877		
CH322-183H02	2L	17438879	17459879	estimated_end	17438879
		located_end	17459879		
CH322-183H03	2RHet	3095596	3116596	located_end	3095596
		estimated_end	3116596		

CH322-183H05	X	20542896	20563896	located_end	20542896
estimated_end		20563896			
CH322-183H06	2L	7383907	7404907	located_end	7383907
estimated_end		7404907			
CH322-183I01	3R	16752166	16773166	located_end	16752166
estimated_end		16773166			
CH322-183I05	2L	7828082	7849082	located_end	7828082
estimated_end		7849082			
CH322-183J06	2L	14359994	14380994	estimated_end	14359994
located_end		14380994			
CH322-183J08	3L	3661931	3682931	located_end	3661931
estimated_end		3682931			
CH322-183J15	X	14857987	14878987	located_end	14857987
estimated_end		14878987			
CH322-183J18	X	5070636	5091636	located_end	5070636
estimated_end		5091636			
CH322-183K03	3L	11649929	11670929	located_end	11649929
estimated_end		11670929			
CH322-183K22	4	1268833	1289833	estimated_end	1268833
located_end		1289833			
CH322-183L02	3L	14121542	14142542	estimated_end	14121542
located_end		14142542			
CH322-183L03	2L	2218275	2239275	located_end	2218275
estimated_end		2239275			
CH322-183L24	2L	15738766	15759766	estimated_end	15738766
located_end		15759766			
CH322-183M06	4	1289590	1310590	estimated_end	1289590
located_end		1310590			
CH322-183M14	3L	19109190	19130190	estimated_end	19109190
located_end		19130190			
CH322-183N05	3R	15418628	15439628	located_end	15418628
estimated_end		15439628			
CH322-183N09	2R	5697997	5718997	estimated_end	5697997
located_end		5718997			
CH322-183N12	3R	21513450	21534450	located_end	21513450
estimated_end		21534450			
CH322-183N15	2L	11109978	11130978	located_end	11109978
estimated_end		11130978			
CH322-183N24	3L	14875584	14896584	located_end	14875584
estimated_end		14896584			
CH322-183O08	2R	8866155	8887155	estimated_end	8866155
located_end		8887155			
CH322-183O15	2R	16628010	16649010	estimated_end	16628010
located_end		16649010			
CH322-183O17	3R	8973966	8994966	estimated_end	8973966
located_end		8994966			
CH322-183O19	3R	11417384	11438384	located_end	11417384
estimated_end		11438384			
CH322-183O20	2L	7128824	7149824	estimated_end	7128824
located_end		7149824			
CH322-183O24	2L	14717271	14738271	located_end	14717271
estimated_end		14738271			
CH322-183P11	3R	16482115	16503115	estimated_end	16482115
located_end		16503115			

CH322-183P14	2R	11466775	11487775	located_end	11466775
		estimated_end	11487775		
CH322-183P16	3LHet	2509116	2530116	located_end	2509116
		estimated_end	2530116		
CH322-184A03	2L	9014965	9035965	located_end	9014965
		estimated_end	9035965		
CH322-184A04	3R	5351466	5372466	estimated_end	5351466
		located_end	5372466		
CH322-184A09	3R	22616661	22637661	located_end	22616661
		estimated_end	22637661		
CH322-184A10	3L	20828594	20849594	estimated_end	20828594
		located_end	20849594		
CH322-184A11	3L	22818469	22839469	located_end	22818469
		estimated_end	22839469		
CH322-184A15	2L	12798794	12819794	located_end	12798794
		estimated_end	12819794		
CH322-184A18	3L	14337189	14358189	estimated_end	14337189
		located_end	14358189		
CH322-184A22	3R	12144074	12165074	estimated_end	12144074
		located_end	12165074		
CH322-184A24	2L	4532330	4553330	located_end	4532330
		estimated_end	4553330		
CH322-184B01	2R	6526465	6547465	located_end	6526465
		estimated_end	6547465		
CH322-184B03	3L	17654954	17675954	estimated_end	17654954
		located_end	17675954		
CH322-184B04	ArmU	2828245	2849245	estimated_end	2828245
		located_end	2849245		
CH322-184B08	3R	1621558	1642558	located_end	1621558
		estimated_end	1642558		
CH322-184B12	3L	6765209	6786209	estimated_end	6765209
		located_end	6786209		
CH322-184B15	2RHet	3174413	3195413	located_end	3174413
		estimated_end	3195413		
CH322-184B23	2L	3157013	3178013	located_end	3157013
		estimated_end	3178013		
CH322-184C01	3L	5308624	5329624	located_end	5308624
		estimated_end	5329624		
CH322-184C07	2L	17174306	17195306	estimated_end	17174306
		located_end	17195306		
CH322-184C14	2L	8578816	8599816	located_end	8578816
		estimated_end	8599816		
CH322-184D19	3L	20523004	20544004	located_end	20523004
		estimated_end	20544004		
CH322-184E01	X	9561493	9582493	located_end	9561493
		estimated_end	9582493		
CH322-184E02	3R	17712904	17733904	located_end	17712904
		estimated_end	17733904		
CH322-184E03	2R	17814562	17835562	located_end	17814562
		estimated_end	17835562		
CH322-184E10	ArmU	5679219	5700219	estimated_end	5679219
		located_end	5700219		
CH322-184F01	3L	11377142	11398142	estimated_end	11377142
		located_end	11398142		

CH322-184F05	3R	26765465	26786465	located_end	26765465
		estimated_end	26786465		
CH322-184G01	X	8027767	8048767	estimated_end	8027767
		located_end	8048767		
CH322-184G02	2R	17357100	17378100	located_end	17357100
		estimated_end	17378100		
CH322-184G03	X	8299130	8320130	located_end	8299130
		estimated_end	8320130		
CH322-184H02	3R	20425467	20446467	located_end	20425467
		estimated_end	20446467		
CH322-184H04	2R	20795820	20816820	estimated_end	20795820
		located_end	20816820		
CH322-184H06	3R	11702330	11723330	estimated_end	11702330
		located_end	11723330		
CH322-184I01	3R	17159332	17180332	estimated_end	17159332
		located_end	17180332		
CH322-184I09	2R	17354947	17375947	located_end	17354947
		estimated_end	17375947		
CH322-184I12	2L	20734058	20755058	located_end	20734058
		estimated_end	20755058		
CH322-184I19	2L	9003548	9024548	estimated_end	9003548
		located_end	9024548		
CH322-184J01	2R	17789164	17810164	located_end	17789164
		estimated_end	17810164		
CH322-184K06	2L	1457821	1478821	located_end	1457821
		estimated_end	1478821		
CH322-184K13	3L	17915216	17936216	estimated_end	17915216
		located_end	17936216		
CH322-184L04	3L	20125147	20146147	estimated_end	20125147
		located_end	20146147		
CH322-184L09	3L	20492207	20513207	estimated_end	20492207
		located_end	20513207		
CH322-184L12	3RHet	1869730	1890730	estimated_end	1869730
		located_end	1890730		
CH322-184L22	2L	21018744	21039744	estimated_end	21018744
		located_end	21039744		
CH322-184L24	3L	22301701	22322701	located_end	22301701
		estimated_end	22322701		
CH322-184M01	2R	15554201	15575201	estimated_end	15554201
		located_end	15575201		
CH322-184M04	3L	16673749	16694749	estimated_end	16673749
		located_end	16694749		
CH322-184M05	2R	17764623	17785623	located_end	17764623
		estimated_end	17785623		
CH322-184M06	3L	18293176	18314176	estimated_end	18293176
		located_end	18314176		
CH322-184M11	3L	15152038	15173038	located_end	15152038
		estimated_end	15173038		
CH322-184M22	3L	23421892	23442892	estimated_end	23421892
		located_end	23442892		
CH322-184M24	X	6703566	6724566	located_end	6703566
		estimated_end	6724566		
CH322-184N04	3R	22989368	23010368	estimated_end	22989368
		located_end	23010368		

CH322-184N05	3R	18004552	18025552	located_end	18004552
		estimated_end	18025552		
CH322-184N10	4	678074	699074	located_end	678074
		estimated_end	699074		
CH322-184N12	2L	3495366	3516366	estimated_end	3495366
		located_end	3516366		
CH322-184N23	2L	7388961	7409961	located_end	7388961
		estimated_end	7409961		
CH322-184N24	2L	19226526	19247526	located_end	19226526
		estimated_end	19247526		
CH322-184O03	X	20800207	20821207	estimated_end	20800207
		located_end	20821207		
CH322-184O08	3R	9982201	10003201	estimated_end	9982201
		located_end	10003201		
CH322-184O14	3R	8412068	8433068	estimated_end	8412068
		located_end	8433068		
CH322-184O15	X	658308	679308	located_end	658308
		estimated_end	679308		
CH322-184O18	2R	11102122	11123122	estimated_end	11102122
		located_end	11123122		
CH322-184O19	X	19299527	19320527	estimated_end	19299527
		located_end	19320527		
CH322-184O20	3R	6762417	6783417	estimated_end	6762417
		located_end	6783417		
CH322-184O22	X	9805230	9826230	located_end	9805230
		estimated_end	9826230		
CH322-184P10	X	7550777	7571777	estimated_end	7550777
		located_end	7571777		
CH322-184P12	3L	7997929	8018929	located_end	7997929
		estimated_end	8018929		
CH322-184P18	3R	27130417	27151417	located_end	27130417
		estimated_end	27151417		
CH322-184P20	3L	4629361	4650361	located_end	4629361
		estimated_end	4650361		
CH322-185A01	X	18728669	18749669	located_end	18728669
		estimated_end	18749669		
CH322-185A06	3R	13329931	13350931	estimated_end	13329931
		located_end	13350931		
CH322-185A08	3R	2457007	2478007	estimated_end	2457007
		located_end	2478007		
CH322-185A10	3L	3957270	3978270	estimated_end	3957270
		located_end	3978270		
CH322-185A15	3R	15779185	15800185	estimated_end	15779185
		located_end	15800185		
CH322-185A16	3R	9722325	9743325	located_end	9722325
		estimated_end	9743325		
CH322-185A20	2R	12614384	12635384	estimated_end	12614384
		located_end	12635384		
CH322-185A22	X	14334162	14355162	estimated_end	14334162
		located_end	14355162		
CH322-185B04	3R	17023425	17044425	located_end	17023425
		estimated_end	17044425		
CH322-185B05	2L	5108339	5129339	estimated_end	5108339
		located_end	5129339		

CH322-185B09	3R	8097176	8118176	estimated_end	8097176
		located_end	8118176		
CH322-185B12	2L	9167904	9188904	located_end	9167904
		estimated_end	9188904		
CH322-185B14	X	20311766	20332766	estimated_end	20311766
		located_end	20332766		
CH322-185B18	3L	21854091	21875091	estimated_end	21854091
		located_end	21875091		
CH322-185B20	2L	17697571	17718571	located_end	17697571
		estimated_end	17718571		
CH322-185B22	3L	771168	792168	located_end	771168
		estimated_end	792168		
CH322-185C01	X	3518494	3539494	estimated_end	3518494
		located_end	3539494		
CH322-185C07	2L	5205956	5226956	located_end	5205956
		estimated_end	5226956		
CH322-185C22	3R	2728322	2749322	estimated_end	2728322
		located_end	2749322		
CH322-185C24	3L	14771548	14792548	located_end	14771548
		estimated_end	14792548		
CH322-185D04	X	21745031	21766031	estimated_end	21745031
		located_end	21766031		
CH322-185D05	2L	20615161	20636161	located_end	20615161
		estimated_end	20636161		
CH322-185D13	2R	14864015	14885015	located_end	14864015
		estimated_end	14885015		
CH322-185D24	3R	27262263	27283263	located_end	27262263
		estimated_end	27283263		
CH322-185E06	2R	8653414	8674414	estimated_end	8653414
		located_end	8674414		
CH322-185E10	3L	4080244	4101244	estimated_end	4080244
		located_end	4101244		
CH322-185E11	X	5180369	5201369	estimated_end	5180369
		located_end	5201369		
CH322-185E15	3L	15314824	15335824	estimated_end	15314824
		located_end	15335824		
CH322-185E19	X	12846347	12867347	located_end	12846347
		estimated_end	12867347		
CH322-185F02	2R	2931630	2952630	located_end	2931630
		estimated_end	2952630		
CH322-185F03	3L	2102975	2123975	estimated_end	2102975
		located_end	2123975		
CH322-185F05	ArmU	7624570	7645570	located_end	7624570
		estimated_end	7645570		
CH322-185F09	3R	18780397	18801397	estimated_end	18780397
		located_end	18801397		
CH322-185F11	2R	5915075	5936075	estimated_end	5915075
		located_end	5936075		
CH322-185F13	3R	16168797	16189797	located_end	16168797
		estimated_end	16189797		
CH322-185F19	2R	10861297	10882297	located_end	10861297
		estimated_end	10882297		
CH322-185G01	3L	10493241	10514241	estimated_end	10493241
		located_end	10514241		

CH322-185H01	2R	12535155	12556155	estimated_end	12535155
		located_end	12556155		
CH322-185H09	3R	13551488	13572488	estimated_end	13551488
		located_end	13572488		
CH322-185H13	3R	8540728	8561728	located_end	8540728
		estimated_end	8561728		
CH322-185H24	X	13372037	13393037	estimated_end	13372037
		located_end	13393037		
CH322-185J02	2L	4026289	4047289	estimated_end	4026289
		located_end	4047289		
CH322-185J24	3L	21179062	21200062	estimated_end	21179062
		located_end	21200062		
CH322-185K02	3L	9457277	9478277	located_end	9457277
		estimated_end	9478277		
CH322-185K24	3R	10948728	10969728	located_end	10948728
		estimated_end	10969728		
CH322-185L01	2R	6478561	6499561	estimated_end	6478561
		located_end	6499561		
CH322-185L04	2L	3027174	3048174	located_end	3027174
		estimated_end	3048174		
CH322-185L14	3L	3130608	3151608	estimated_end	3130608
		located_end	3151608		
CH322-185L16	X	14024229	14045229	estimated_end	14024229
		located_end	14045229		
CH322-185M01	2L	8177932	8198932	located_end	8177932
		estimated_end	8198932		
CH322-185M04	X	21436267	21457267	estimated_end	21436267
		located_end	21457267		
CH322-185M08	X	14551762	14572762	estimated_end	14551762
		located_end	14572762		
CH322-185M11	2L	12936510	12957510	estimated_end	12936510
		located_end	12957510		
CH322-185M13	2L	14145123	14166123	estimated_end	14145123
		located_end	14166123		
CH322-185M15	X	6390768	6411768	estimated_end	6390768
		located_end	6411768		
CH322-185M22	2R	3562659	3583659	located_end	3562659
		estimated_end	3583659		
CH322-185M23	2LHet	304750	325750	located_end	304750
		estimated_end	325750		
CH322-185M24	X	11882481	11903481	located_end	11882481
		estimated_end	11903481		
CH322-185N05	ArmU	2153311	2174311	located_end	2153311
		estimated_end	2174311		
CH322-185N06	2R	18793121	18814121	located_end	18793121
		estimated_end	18814121		
CH322-185N10	3L	17617870	17638870	located_end	17617870
		estimated_end	17638870		
CH322-185N11	X	17860376	17881376	estimated_end	17860376
		located_end	17881376		
CH322-185N12	2L	18668775	18689775	located_end	18668775
		estimated_end	18689775		
CH322-185N13	3R	12729707	12750707	located_end	12729707
		estimated_end	12750707		

CH322-185N14	2L	16679864	16700864	located_end	16679864
		estimated_end	16700864		
CH322-185N17	3L	12855016	12876016	estimated_end	12855016
		located_end	12876016		
CH322-185N20	2L	8990431	9011431	estimated_end	8990431
		located_end	9011431		
CH322-185N21	2L	16526854	16547854	estimated_end	16526854
		located_end	16547854		
CH322-185O01	X	6486113	6507113	located_end	6486113
		estimated_end	6507113		
CH322-185O02	3R	23091732	23112732	located_end	23091732
		estimated_end	23112732		
CH322-185O05	2L	6966634	6987634	estimated_end	6966634
		located_end	6987634		
CH322-185O08	2L	318445	339445	located_end	318445
		estimated_end	339445		
CH322-185O13	3L	23833383	23854383	located_end	23833383
		estimated_end	23854383		
CH322-185O16	3R	4338871	4359871	estimated_end	4338871
		located_end	4359871		
CH322-185O17	3L	13282277	13303277	located_end	13282277
		estimated_end	13303277		
CH322-185O19	3R	14305630	14326630	located_end	14305630
		estimated_end	14326630		
CH322-185O23	X	6484339	6505339	located_end	6484339
		estimated_end	6505339		
CH322-185O24	X	9486221	9507221	located_end	9486221
		estimated_end	9507221		
CH322-185P03	X	8106681	8127681	located_end	8106681
		estimated_end	8127681		
CH322-185P04	2R	15027401	15048401	located_end	15027401
		estimated_end	15048401		
CH322-185P11	3R	6863341	6884341	estimated_end	6863341
		located_end	6884341		
CH322-185P14	3L	890971	911971	estimated_end	890971
		located_end	911971		
CH322-185P15	2L	6525468	6546468	located_end	6525468
		estimated_end	6546468		
CH322-185P17	2L	16060048	16081048	located_end	16060048
		estimated_end	16081048		
CH322-185P18	X	1446496	1467496	located_end	1446496
		estimated_end	1467496		
CH322-185P19	2R	685273	706273	located_end	685273
		estimated_end	706273		
CH322-185P20	2L	3432292	3453292	located_end	3432292
		estimated_end	3453292		
CH322-186A03	2L	1520042	1541042	estimated_end	1520042
		located_end	1541042		
CH322-186A06	3L	5805728	5826728	located_end	5805728
		estimated_end	5826728		
CH322-186A09	2L	6743748	6764748	estimated_end	6743748
		located_end	6764748		
CH322-186A15	3L	22324113	22345113	estimated_end	22324113
		located_end	22345113		

CH322-186A16	2R	18692573	18713573	located_end	18692573
		estimated_end	18713573		
CH322-186A17	2L	19007144	19028144	located_end	19007144
		estimated_end	19028144		
CH322-186A18	2L	6837826	6858826	located_end	6837826
		estimated_end	6858826		
CH322-186A21	3R	24008281	24029281	estimated_end	24008281
		located_end	24029281		
CH322-186A22	3R	8654489	8675489	located_end	8654489
		estimated_end	8675489		
CH322-186A24	2L	21716943	21737943	estimated_end	21716943
		located_end	21737943		
CH322-186B08	X	13454873	13475873	located_end	13454873
		estimated_end	13475873		
CH322-186B09	3R	16378861	16399861	located_end	16378861
		estimated_end	16399861		
CH322-186B10	2L	1447211	1468211	located_end	1447211
		estimated_end	1468211		
CH322-186B13	3R	9559683	9580683	located_end	9559683
		estimated_end	9580683		
CH322-186B16	2L	13786362	13807362	estimated_end	13786362
		located_end	13807362		
CH322-186B18	2L	5217889	5238889	estimated_end	5217889
		located_end	5238889		
CH322-186B22	X	14595435	14616435	located_end	14595435
		estimated_end	14616435		
CH322-186B24	3L	21572797	21593797	located_end	21572797
		estimated_end	21593797		
CH322-186C03	3R	27398849	27419849	located_end	27398849
		estimated_end	27419849		
CH322-186C07	3R	22080511	22101511	located_end	22080511
		estimated_end	22101511		
CH322-186C20	3L	14491039	14512039	located_end	14491039
		estimated_end	14512039		
CH322-186D01	3L	11576084	11597084	estimated_end	11576084
		located_end	11597084		
CH322-186D02	3L	7157638	7178638	estimated_end	7157638
		located_end	7178638		
CH322-186D14	3R	12714871	12735871	located_end	12714871
		estimated_end	12735871		
CH322-186D20	2R	14421862	14442862	estimated_end	14421862
		located_end	14442862		
CH322-186D21	3R	27096059	27117059	estimated_end	27096059
		located_end	27117059		
CH322-186D22	2L	13564657	13585657	estimated_end	13564657
		located_end	13585657		
CH322-186D24	3L	15459334	15480334	estimated_end	15459334
		located_end	15480334		
CH322-186E03	2R	14358267	14379267	located_end	14358267
		estimated_end	14379267		
CH322-186E24	3R	24270485	24291485	located_end	24270485
		estimated_end	24291485		
CH322-186F06	2L	12982244	13003244	estimated_end	12982244
		located_end	13003244		

CH322-186F15	3L	14232569	14253569	estimated_end	14232569
		located_end	14253569		
CH322-186G05	2L	9518381	9539381	located_end	9518381
		estimated_end	9539381		
CH322-186G06	2L	3476392	3497392	estimated_end	3476392
		located_end	3497392		
CH322-186G23	2L	12188685	12209685	located_end	12188685
		estimated_end	12209685		
CH322-186H04	2L	17782071	17803071	located_end	17782071
		estimated_end	17803071		
CH322-186H24	2L	9794881	9815881	located_end	9794881
		estimated_end	9815881		
CH322-186I05	3L	1997531	2018531	located_end	1997531
		estimated_end	2018531		
CH322-186I06	X	4694644	4715644	estimated_end	4694644
		located_end	4715644		
CH322-186I19	2L	11692867	11713867	located_end	11692867
		estimated_end	11713867		
CH322-186J05	3L	21273827	21294827	located_end	21273827
		estimated_end	21294827		
CH322-186J06	3L	948540	969540	estimated_end	948540
		located_end	969540		
CH322-186J23	2R	4373684	4394684	estimated_end	4373684
		located_end	4394684		
CH322-186K04	3R	5457661	5478661	estimated_end	5457661
		located_end	5478661		
CH322-186K06	3L	10340390	10361390	estimated_end	10340390
		located_end	10361390		
CH322-186K21	ArmU	4610766	4631766	estimated_end	4610766
		located_end	4631766		
CH322-186K24	2L	4621849	4642849	located_end	4621849
		estimated_end	4642849		
CH322-186L02	2RHet	1951433	1972433	estimated_end	1951433
		located_end	1972433		
CH322-186L04	3R	1831643	1852643	estimated_end	1831643
		located_end	1852643		
CH322-186L09	2R	18451757	18472757	located_end	18451757
		estimated_end	18472757		
CH322-186L20	3R	4927492	4948492	estimated_end	4927492
		located_end	4948492		
CH322-186M05	X	10336349	10357349	estimated_end	10336349
		located_end	10357349		
CH322-186M06	2L	2903862	2924862	located_end	2903862
		estimated_end	2924862		
CH322-186M09	ArmU	9802745	9823745	estimated_end	9802745
		located_end	9823745		
CH322-186M12	3R	15265860	15286860	estimated_end	15265860
		located_end	15286860		
CH322-186M13	3R	19906430	19927430	estimated_end	19906430
		located_end	19927430		
CH322-186M14	X	8416442	8437442	estimated_end	8416442
		located_end	8437442		
CH322-186M19	2L	19363950	19384950	located_end	19363950
		estimated_end	19384950		

CH322-186M22	2L	13306964	13327964	located_end	13306964
		estimated_end	13327964		
CH322-186N03	3R	6291761	6312761	located_end	6291761
		estimated_end	6312761		
CH322-186N08	3LHet	237385	258385	located_end	237385
		estimated_end	258385		
CH322-186N11	2R	5202090	5223090	located_end	5202090
		estimated_end	5223090		
CH322-186N12	3R	15692534	15713534	estimated_end	15692534
		located_end	15713534		
CH322-186N15	3L	9006954	9027954	located_end	9006954
		estimated_end	9027954		
CH322-186N16	3R	19730790	19751790	located_end	19730790
		estimated_end	19751790		
CH322-186O03	2R	6347483	6368483	located_end	6347483
		estimated_end	6368483		
CH322-186O07	X	5818110	5839110	estimated_end	5818110
		located_end	5839110		
CH322-186O08	2L	20367105	20388105	located_end	20367105
		estimated_end	20388105		
CH322-186O11	2L	13642396	13663396	located_end	13642396
		estimated_end	13663396		
CH322-186O18	3L	11430478	11451478	estimated_end	11430478
		located_end	11451478		
CH322-186O20	2L	3658107	3679107	located_end	3658107
		estimated_end	3679107		
CH322-186O21	X	16197831	16218831	estimated_end	16197831
		located_end	16218831		
CH322-186O22	2R	12499227	12520227	located_end	12499227
		estimated_end	12520227		
CH322-186P07	X	17758222	17779222	estimated_end	17758222
		located_end	17779222		
CH322-186P12	3L	14709656	14730656	located_end	14709656
		estimated_end	14730656		
CH322-186P17	X	297263	318263	located_end	297263
		estimated_end	318263		
CH322-186P18	2L	12020582	12041582	estimated_end	12020582
		located_end	12041582		
CH322-186P20	X	9087862	9108862	estimated_end	9087862
		located_end	9108862		
CH322-187A01	3R	21980506	22001506	estimated_end	21980506
		located_end	22001506		
CH322-187A03	3L	21713992	21734992	estimated_end	21713992
		located_end	21734992		
CH322-187A04	3R	15455780	15476780	located_end	15455780
		estimated_end	15476780		
CH322-187A07	3L	6005567	6026567	estimated_end	6005567
		located_end	6026567		
CH322-187A09	3R	16234834	16255834	located_end	16234834
		estimated_end	16255834		
CH322-187A10	2L	7995223	8016223	located_end	7995223
		estimated_end	8016223		
CH322-187A12	3R	20996119	21017119	estimated_end	20996119
		located_end	21017119		

CH322-187A17	2L	16016484	16037484	located_end	16016484
		estimated_end	16037484		
CH322-187B01	2R	4259053	4280053	located_end	4259053
		estimated_end	4280053		
CH322-187B08	ArmU	9802751	9823751	estimated_end	9802751
		located_end	9823751		
CH322-187B11	X	5360971	5381971	located_end	5360971
		estimated_end	5381971		
CH322-187B13	2L	21637734	21658734	located_end	21637734
		estimated_end	21658734		
CH322-187B17	2L	9499208	9520208	located_end	9499208
		estimated_end	9520208		
CH322-187B18	3L	331549	352549	located_end	331549
		estimated_end	352549		
CH322-187C01	4	541140	562140	estimated_end	541140
		located_end	562140		
CH322-187C02	2L	11286579	11307579	located_end	11286579
		estimated_end	11307579		
CH322-187C04	2L	22428897	22449897	located_end	22428897
		estimated_end	22449897		
CH322-187C19	2L	10947826	10968826	estimated_end	10947826
		located_end	10968826		
CH322-187D01	2L	11075863	11096863	estimated_end	11075863
		located_end	11096863		
CH322-187D04	2L	6907050	6928050	estimated_end	6907050
		located_end	6928050		
CH322-187D06	2RHet	3163553	3184553	located_end	3163553
		estimated_end	3184553		
CH322-187D11	ArmU	3923581	3944581	estimated_end	3923581
		located_end	3944581		
CH322-187E01	2L	5639578	5660578	estimated_end	5639578
		located_end	5660578		
CH322-187E12	X	1709476	1730476	estimated_end	1709476
		located_end	1730476		
CH322-187E23	4	408998	429998	estimated_end	408998
		located_end	429998		
CH322-187E24	3R	13191039	13212039	located_end	13191039
		estimated_end	13212039		
CH322-187F02	X	3209579	3230579	estimated_end	3209579
		located_end	3230579		
CH322-187F03	3R	24023254	24044254	estimated_end	24023254
		located_end	24044254		
CH322-187F04	3R	27694630	27715630	located_end	27694630
		estimated_end	27715630		
CH322-187F22	3R	18632371	18653371	estimated_end	18632371
		located_end	18653371		
CH322-187G01	3L	611547	632547	estimated_end	611547
		located_end	632547		
CH322-187G02	2R	2738422	2759422	located_end	2738422
		estimated_end	2759422		
CH322-187G12	3L	23615867	23636867	estimated_end	23615867
		located_end	23636867		
CH322-187H01	2L	17953736	17974736	estimated_end	17953736
		located_end	17974736		

CH322-187H02	X	11119826	11140826	estimated_end	11119826
		located_end	11140826		
CH322-187I01	2L	18873017	18894017	estimated_end	18873017
		located_end	18894017		
CH322-187I03	3R	18534365	18555365	located_end	18534365
		estimated_end	18555365		
CH322-187I12	3R	20295961	20316961	estimated_end	20295961
		located_end	20316961		
CH322-187I14	3L	14487971	14508971	located_end	14487971
		estimated_end	14508971		
CH322-187I18	3L	3985061	4006061	located_end	3985061
		estimated_end	4006061		
CH322-187I23	2R	8891594	8912594	located_end	8891594
		estimated_end	8912594		
CH322-187J01	2R	14678231	14699231	located_end	14678231
		estimated_end	14699231		
CH322-187J03	X	6378199	6399199	located_end	6378199
		estimated_end	6399199		
CH322-187J14	3L	20091269	20112269	located_end	20091269
		estimated_end	20112269		
CH322-187J22	3L	18768435	18789435	estimated_end	18768435
		located_end	18789435		
CH322-187K05	2L	10703362	10724362	estimated_end	10703362
		located_end	10724362		
CH322-187L02	X	4710713	4731713	located_end	4710713
		estimated_end	4731713		
CH322-187L03	X	9653835	9674835	located_end	9653835
		estimated_end	9674835		
CH322-187L24	2L	10092523	10113523	located_end	10092523
		estimated_end	10113523		
CH322-187M01	3R	21283184	21304184	estimated_end	21283184
		located_end	21304184		
CH322-187M10	3R	15644072	15665072	estimated_end	15644072
		located_end	15665072		
CH322-187M12	3R	14648674	14669674	estimated_end	14648674
		located_end	14669674		
CH322-187M13	3R	2312705	2333705	located_end	2312705
		estimated_end	2333705		
CH322-187M18	3L	13325554	13346554	located_end	13325554
		estimated_end	13346554		
CH322-187M19	X	19327372	19348372	estimated_end	19327372
		located_end	19348372		
CH322-187N03	3L	3816431	3837431	located_end	3816431
		estimated_end	3837431		
CH322-187N07	X	18833952	18854952	located_end	18833952
		estimated_end	18854952		
CH322-187N09	3L	15069381	15090381	located_end	15069381
		estimated_end	15090381		
CH322-187N21	ArmU	103563	124563	located_end	103563
		estimated_end	124563		
CH322-187N23	X	9235553	9256553	estimated_end	9235553
		located_end	9256553		
CH322-187O02	X	1386511	1407511	located_end	1386511
		estimated_end	1407511		

CH322-187O05	3L	24050645	24071645	estimated_end	24050645
		located_end	24071645		
CH322-187O07	3L	12388261	12409261	located_end	12388261
		estimated_end	12409261		
CH322-187O10	3L	10658182	10679182	estimated_end	10658182
		located_end	10679182		
CH322-187P09	ArmU	3131200	3152200	located_end	3131200
		estimated_end	3152200		
CH322-187P11	3R	1344647	1365647	estimated_end	1344647
		located_end	1365647		
CH322-187P14	3L	13815348	13836348	estimated_end	13815348
		located_end	13836348		
CH322-188A02	3R	15226268	15247268	located_end	15226268
		estimated_end	15247268		
CH322-188A06	3R	11440286	11461286	located_end	11440286
		estimated_end	11461286		
CH322-188A10	3L	17303153	17324153	located_end	17303153
		estimated_end	17324153		
CH322-188A15	3R	14975425	14996425	located_end	14975425
		estimated_end	14996425		
CH322-188A18	2L	17631142	17652142	located_end	17631142
		estimated_end	17652142		
CH322-188A20	2L	20545985	20566985	located_end	20545985
		estimated_end	20566985		
CH322-188B08	3R	10852347	10873347	estimated_end	10852347
		located_end	10873347		
CH322-188B12	X	3046757	3067757	estimated_end	3046757
		located_end	3067757		
CH322-188B15	3R	19380779	19401779	located_end	19380779
		estimated_end	19401779		
CH322-188B16	2L	15978405	15999405	estimated_end	15978405
		located_end	15999405		
CH322-188B20	X	20197674	20218674	estimated_end	20197674
		located_end	20218674		
CH322-188B24	3R	12485472	12506472	located_end	12485472
		estimated_end	12506472		
CH322-188C01	3L	20391939	20412939	located_end	20391939
		estimated_end	20412939		
CH322-188C02	3R	8353525	8374525	located_end	8353525
		estimated_end	8374525		
CH322-188C07	X	11733572	11754572	located_end	11733572
		estimated_end	11754572		
CH322-188D01	3R	24264798	24285798	estimated_end	24264798
		located_end	24285798		
CH322-188D02	X	14230244	14251244	estimated_end	14230244
		located_end	14251244		
CH322-188D17	3L	7070853	7091853	estimated_end	7070853
		located_end	7091853		
CH322-188D18	3L	15583675	15604675	estimated_end	15583675
		located_end	15604675		
CH322-188D19	3L	2927288	2948288	located_end	2927288
		estimated_end	2948288		
CH322-188D24	2L	3005649	3026649	estimated_end	3005649
		located_end	3026649		

CH322-188E05	2L	12220713	12241713	estimated_end	12220713
		located_end	12241713		
CH322-188E06	2R	8653169	8674169	estimated_end	8653169
		located_end	8674169		
CH322-188E09	2L	5831426	5852426	estimated_end	5831426
		located_end	5852426		
CH322-188E14	2R	6481914	6502914	located_end	6481914
		estimated_end	6502914		
CH322-188E19	X	5084096	5105096	estimated_end	5084096
		located_end	5105096		
CH322-188F12	3L	18103979	18124979	located_end	18103979
		estimated_end	18124979		
CH322-188F14	X	15054244	15075244	estimated_end	15054244
		located_end	15075244		
CH322-188F15	2R	10367435	10388435	estimated_end	10367435
		located_end	10388435		
CH322-188F20	2L	4008581	4029581	estimated_end	4008581
		located_end	4029581		
CH322-188G02	2R	7062182	7083182	located_end	7062182
		estimated_end	7083182		
CH322-188G22	3L	16190833	16211833	located_end	16190833
		estimated_end	16211833		
CH322-188H01	X	9784205	9805205	estimated_end	9784205
		located_end	9805205		
CH322-188I01	3R	1291718	1312718	located_end	1291718
		estimated_end	1312718		
CH322-188I06	3R	20705929	20726929	located_end	20705929
		estimated_end	20726929		
CH322-188J03	3L	1849589	1870589	located_end	1849589
		estimated_end	1870589		
CH322-188J07	3L	14563395	14584395	estimated_end	14563395
		located_end	14584395		
CH322-188J10	3R	6697009	6718009	estimated_end	6697009
		located_end	6718009		
CH322-188J23	2L	16101636	16122636	located_end	16101636
		estimated_end	16122636		
CH322-188K02	2R	12064532	12085532	located_end	12064532
		estimated_end	12085532		
CH322-188L02	2R	11589506	11610506	estimated_end	11589506
		located_end	11610506		
CH322-188L03	2R	14813998	14834998	located_end	14813998
		estimated_end	14834998		
CH322-188L18	ArmU	963653	984653	estimated_end	963653
		located_end	984653		
CH322-188L24	X	2165474	2186474	estimated_end	2165474
		located_end	2186474		
CH322-188M03	2R	13884300	13905300	located_end	13884300
		estimated_end	13905300		
CH322-188M04	3R	9068458	9089458	estimated_end	9068458
		located_end	9089458		
CH322-188M06	3L	15061748	15082748	estimated_end	15061748
		located_end	15082748		
CH322-188M08	X	3145015	3166015	estimated_end	3145015
		located_end	3166015		

CH322-188M10	2L	21184025	21205025	estimated_end	21184025
		located_end	21205025		
CH322-188M15	ArmU	5902447	5923447	located_end	5902447
		estimated_end	5923447		
CH322-188N06	2L	1472438	1493438	located_end	1472438
		estimated_end	1493438		
CH322-188N23	2L	18892143	18913143	estimated_end	18892143
		located_end	18913143		
CH322-188O03	3LHet	588263	609263	located_end	588263
		estimated_end	609263		
CH322-188O06	3R	23827101	23848101	estimated_end	23827101
		located_end	23848101		
CH322-188O09	X	10282706	10303706	located_end	10282706
		estimated_end	10303706		
CH322-188O12	2L	14845306	14866306	located_end	14845306
		estimated_end	14866306		
CH322-188O15	3R	26553519	26574519	estimated_end	26553519
		located_end	26574519		
CH322-188O17	2R	19077671	19098671	located_end	19077671
		estimated_end	19098671		
CH322-188O18	3L	2865222	2886222	located_end	2865222
		estimated_end	2886222		
CH322-188O24	3R	14204789	14225789	estimated_end	14204789
		located_end	14225789		
CH322-188P19	2L	17410113	17431113	located_end	17410113
		estimated_end	17431113		
CH322-188P20	3R	11880162	11901162	estimated_end	11880162
		located_end	11901162		
CH322-188P21	3R	12501720	12522720	estimated_end	12501720
		located_end	12522720		
CH322-189A01	2R	16089720	16110720	estimated_end	16089720
		located_end	16110720		
CH322-189A04	2R	12604260	12625260	estimated_end	12604260
		located_end	12625260		
CH322-189A05	3R	1469695	1490695	located_end	1469695
		estimated_end	1490695		
CH322-189A06	3L	5868255	5889255	located_end	5868255
		estimated_end	5889255		
CH322-189A10	2R	18279189	18300189	located_end	18279189
		estimated_end	18300189		
CH322-189A12	3L	23053347	23074347	located_end	23053347
		estimated_end	23074347		
CH322-189A13	2R	17742841	17763841	located_end	17742841
		estimated_end	17763841		
CH322-189A15	2R	10604081	10625081	located_end	10604081
		estimated_end	10625081		
CH322-189A17	3L	2566949	2587949	estimated_end	2566949
		located_end	2587949		
CH322-189A18	2L	15174150	15195150	estimated_end	15174150
		located_end	15195150		
CH322-189A20	2L	15036568	15057568	located_end	15036568
		estimated_end	15057568		
CH322-189A23	3R	15850586	15871586	estimated_end	15850586
		located_end	15871586		

CH322-189B02	X	15201810	15222810	estimated_end	15201810
		located_end	15222810		
CH322-189B03	2R	3933966	3954966	estimated_end	3933966
		located_end	3954966		
CH322-189B05	3R	4187193	4208193	estimated_end	4187193
		located_end	4208193		
CH322-189B08	3R	17324870	17345870	located_end	17324870
		estimated_end	17345870		
CH322-189B09	3L	1993510	2014510	estimated_end	1993510
		located_end	2014510		
CH322-189B14	3L	63647 84647	estimated_end	63647	located_end
					84647
CH322-189B22	3L	16390308	16411308	estimated_end	16390308
		located_end	16411308		
CH322-189B24	2R	5265990	5286990	estimated_end	5265990
		located_end	5286990		
CH322-189C02	ArmU	5585213	5606213	estimated_end	5585213
		located_end	5606213		
CH322-189C03	3L	8832094	8853094	located_end	8832094
		estimated_end	8853094		
CH322-189C05	3L	13055238	13076238	located_end	13055238
		estimated_end	13076238		
CH322-189C06	2L	14405268	14426268	located_end	14405268
		estimated_end	14426268		
CH322-189C10	X	3386191	3407191	located_end	3386191
		estimated_end	3407191		
CH322-189C18	2R	15665482	15686482	estimated_end	15665482
		located_end	15686482		
CH322-189C24	2L	6395099	6416099	estimated_end	6395099
		located_end	6416099		
CH322-189D01	2R	4452139	4473139	estimated_end	4452139
		located_end	4473139		
CH322-189D02	3R	26905366	26926366	estimated_end	26905366
		located_end	26926366		
CH322-189D04	2R	6974241	6995241	located_end	6974241
		estimated_end	6995241		
CH322-189D09	3L	15782465	15803465	located_end	15782465
		estimated_end	15803465		
CH322-189D19	2RHet	2588233	2609233	estimated_end	2588233
		located_end	2609233		
CH322-189D22	3L	8218634	8239634	estimated_end	8218634
		located_end	8239634		
CH322-189D23	X	21803158	21824158	located_end	21803158
		estimated_end	21824158		
CH322-189D24	2L	1439991	1460991	estimated_end	1439991
		located_end	1460991		
CH322-189E01	2L	11076939	11097939	estimated_end	11076939
		located_end	11097939		
CH322-189E04	2L	7388737	7409737	located_end	7388737
		estimated_end	7409737		
CH322-189E05	3L	13801002	13822002	estimated_end	13801002
		located_end	13822002		
CH322-189E09	2L	11038147	11059147	estimated_end	11038147
		located_end	11059147		

CH322-189E15	2L	22048392	22069392	located_end	22048392
		estimated_end	22069392		
CH322-189E22	3L	15475994	15496994	estimated_end	15475994
		located_end	15496994		
CH322-189E24	X	16879005	16900005	estimated_end	16879005
		located_end	16900005		
CH322-189F02	3R	17923864	17944864	located_end	17923864
		estimated_end	17944864		
CH322-189F03	X	18433103	18454103	estimated_end	18433103
		located_end	18454103		
CH322-189F04	2L	22692040	22713040	located_end	22692040
		estimated_end	22713040		
CH322-189F05	X	10923313	10944313	located_end	10923313
		estimated_end	10944313		
CH322-189F07	3R	12864515	12885515	located_end	12864515
		estimated_end	12885515		
CH322-189G02	3R	4284768	4305768	located_end	4284768
		estimated_end	4305768		
CH322-189G04	3R	16770309	16791309	estimated_end	16770309
		located_end	16791309		
CH322-189G08	3LHet	2529335	2550335	located_end	2529335
		estimated_end	2550335		
CH322-189G09	3R	3597842	3618842	estimated_end	3597842
		located_end	3618842		
CH322-189G17	3L	5192529	5213529	located_end	5192529
		estimated_end	5213529		
CH322-189H01	2L	10798144	10819144	located_end	10798144
		estimated_end	10819144		
CH322-189H07	2R	11215699	11236699	located_end	11215699
		estimated_end	11236699		
CH322-189H09	3R	1079562	1100562	estimated_end	1079562
		located_end	1100562		
CH322-189H22	ArmU	8737838	8758838	estimated_end	8737838
		located_end	8758838		
CH322-189H23	2L	1463378	1484378	located_end	1463378
		estimated_end	1484378		
CH322-189I03	3L	17452900	17473900	located_end	17452900
		estimated_end	17473900		
CH322-189I05	2L	6496979	6517979	estimated_end	6496979
		located_end	6517979		
CH322-189I07	3L	18241491	18262491	estimated_end	18241491
		located_end	18262491		
CH322-189I14	2RHet	2447895	2468895	located_end	2447895
		estimated_end	2468895		
CH322-189I20	ArmU	7175631	7196631	estimated_end	7175631
		located_end	7196631		
CH322-189J04	X	423238	444238	estimated_end	423238
		located_end	444238		
CH322-189J08	X	2590854	2611854	located_end	2590854
		estimated_end	2611854		
CH322-189J14	X	6944538	6965538	estimated_end	6944538
		located_end	6965538		
CH322-189J23	X	9864068	9885068	estimated_end	9864068
		located_end	9885068		

CH322-189J24	2L	10696697	10717697	located_end	10696697
		estimated_end	10717697		
CH322-189K03	3L	8759038	8780038	located_end	8759038
		estimated_end	8780038		
CH322-189K06	3R	21111919	21132919	located_end	21111919
		estimated_end	21132919		
CH322-189L02	3R	22780704	22801704	located_end	22780704
		estimated_end	22801704		
CH322-189L04	3R	15677984	15698984	estimated_end	15677984
		located_end	15698984		
CH322-189L09	X	15561048	15582048	located_end	15561048
		estimated_end	15582048		
CH322-189L16	X	20317670	20338670	located_end	20317670
		estimated_end	20338670		
CH322-189L20	ArmU	2203143	2224143	located_end	2203143
		estimated_end	2224143		
CH322-189L24	3L	1795965	1816965	located_end	1795965
		estimated_end	1816965		
CH322-189M04	2L	14937933	14958933	estimated_end	14937933
		located_end	14958933		
CH322-189M05	3L	465432	486432	estimated_end	465432
		located_end	486432		
CH322-189M06	2R	10837815	10858815	estimated_end	10837815
		located_end	10858815		
CH322-189M07	3LHet	789459	810459	located_end	789459
		estimated_end	810459		
CH322-189M08	3R	10886547	10907547	located_end	10886547
		estimated_end	10907547		
CH322-189M12	2L	10538412	10559412	estimated_end	10538412
		located_end	10559412		
CH322-189M13	3R	786316	807316	estimated_end	786316
		located_end	807316		
CH322-189M14	3R	16234288	16255288	estimated_end	16234288
		located_end	16255288		
CH322-189M20	3R	4792518	4813518	estimated_end	4792518
		located_end	4813518		
CH322-189M22	2L	1763135	1784135	estimated_end	1763135
		located_end	1784135		
CH322-189N04	2R	20860134	20881134	located_end	20860134
		estimated_end	20881134		
CH322-189N07	3R	2777816	2798816	estimated_end	2777816
		located_end	2798816		
CH322-189N08	X	6433880	6454880	estimated_end	6433880
		located_end	6454880		
CH322-189N12	X	2435280	2456280	estimated_end	2435280
		located_end	2456280		
CH322-189N13	3R	8229795	8250795	estimated_end	8229795
		located_end	8250795		
CH322-189N17	2R	7092736	7113736	estimated_end	7092736
		located_end	7113736		
CH322-189O07	3L	11428323	11449323	located_end	11428323
		estimated_end	11449323		
CH322-189O08	3L	17757914	17778914	estimated_end	17757914
		located_end	17778914		

CH322-189014	2L	15627497	15648497	estimated_end	15627497
		located_end	15648497		
CH322-189017	3R	2490102	2511102	located_end	2490102
		estimated_end	2511102		
CH322-189018	X	1738488	1759488	located_end	1738488
		estimated_end	1759488		
CH322-189020	3L	22230917	22251917	estimated_end	22230917
		located_end	22251917		
CH322-189P19	3R	25457293	25478293	located_end	25457293
		estimated_end	25478293		
CH322-189P20	3R	14481637	14502637	estimated_end	14481637
		located_end	14502637		
CH322-18A09	3R	10214224	10235224	located_end	10214224
		estimated_end	10235224		
CH322-18A15	3L	5666810	5687810	estimated_end	5666810
		located_end	5687810		
CH322-18A16	3L	14227156	14248156	estimated_end	14227156
		located_end	14248156		
CH322-18B05	ArmU	2655356	2676356	located_end	2655356
		estimated_end	2676356		
CH322-18B06	3L	12184546	12205546	located_end	12184546
		estimated_end	12205546		
CH322-18B12	X	1961299	1982299	located_end	1961299
		estimated_end	1982299		
CH322-18B16	2R	8060236	8081236	estimated_end	8060236
		located_end	8081236		
CH322-18B17	2R	10206985	10227985	estimated_end	10206985
		located_end	10227985		
CH322-18B19	4	626152	647152	estimated_end	626152
		located_end	647152		
CH322-18C10	2L	8177038	8198038	located_end	8177038
		estimated_end	8198038		
CH322-18C12	3L	15115734	15136734	located_end	15115734
		estimated_end	15136734		
CH322-18C15	2R	9530429	9551429	located_end	9530429
		estimated_end	9551429		
CH322-18C18	2R	19539265	19560265	estimated_end	19539265
		located_end	19560265		
CH322-18C20	X	5960191	5981191	located_end	5960191
		estimated_end	5981191		
CH322-18C21	2R	13750182	13771182	located_end	13750182
		estimated_end	13771182		
CH322-18C22	3L	9490254	9511254	located_end	9490254
		estimated_end	9511254		
CH322-18D15	2L	15992546	16013546	estimated_end	15992546
		located_end	16013546		
CH322-18D16	3R	12038747	12059747	located_end	12038747
		estimated_end	12059747		
CH322-18D17	2L	31532	52532	located_end	31532
		estimated_end	52532		
CH322-18D18	2R	18205097	18226097	located_end	18205097
		estimated_end	18226097		
CH322-18D19	3L	13232991	13253991	estimated_end	13232991
		located_end	13253991		

CH322-18D21 3L	636621	657621	located_end	636621
	estimated_end	657621		
CH322-18D22 2R	522960	543960	located_end	522960
	estimated_end	543960		
CH322-18E02 2L	12065604	12086604	estimated_end	12065604
	located_end	12086604		
CH322-18E05 X	20346154	20367154	located_end	20346154
	estimated_end	20367154		
CH322-18E10 X	19681129	19702129	estimated_end	19681129
	located_end	19702129		
CH322-18E12 3L	17162112	17183112	estimated_end	17162112
	located_end	17183112		
CH322-18E13 3L	10677581	10698581	located_end	10677581
	estimated_end	10698581		
CH322-18E15 2L	20791395	20812395	located_end	20791395
	estimated_end	20812395		
CH322-18E18 ArmU	4795731	4816731	estimated_end	4795731
	located_end	4816731		
CH322-18F05 3R	16574686	16595686	estimated_end	16574686
	located_end	16595686		
CH322-18F13 2R	13610789	13631789	located_end	13610789
	estimated_end	13631789		
CH322-18F14 2L	3256802	3277802	estimated_end	3256802
	located_end	3277802		
CH322-18F21 3R	27486120	27507120	located_end	27486120
	estimated_end	27507120		
CH322-18G01 X	20345650	20366650	estimated_end	20345650
	located_end	20366650		
CH322-18G02 3R	93938	114938	located_end	93938
	estimated_end	114938		
CH322-18G18 X	15591307	15612307	estimated_end	15591307
	located_end	15612307		
CH322-18G19 3L	6153484	6174484	located_end	6153484
	estimated_end	6174484		
CH322-18H03 ArmU	7961107	7982107	estimated_end	7961107
	located_end	7982107		
CH322-18H06 3LHet	995958	1016958	estimated_end	995958
	located_end	1016958		
CH322-18H12 2L	13508140	13529140	estimated_end	13508140
	located_end	13529140		
CH322-18H14 2L	7441245	7462245	estimated_end	7441245
	located_end	7462245		
CH322-18H18 2R	18787637	18808637	located_end	18787637
	estimated_end	18808637		
CH322-18H22 3R	6205903	6226903	estimated_end	6205903
	located_end	6226903		
CH322-18I01 2L	20359299	20380299	estimated_end	20359299
	located_end	20380299		
CH322-18I02 2R	7124532	7145532	estimated_end	7124532
	located_end	7145532		
CH322-18I05 2R	11389796	11410796	located_end	11389796
	estimated_end	11410796		
CH322-18I07 2L	22100772	22121772	located_end	22100772
	estimated_end	22121772		

CH322-18I08 2R	12363571	12384571	located_end	12363571
	estimated_end	12384571		
CH322-18I09 4	630361	651361	estimated_end	630361
	located_end	651361		
CH322-18I12 2L	13642480	13663480	located_end	13642480
	estimated_end	13663480		
CH322-18I20 X	18232375	18253375	estimated_end	18232375
	located_end	18253375		
CH322-18I21 3L	11947197	11968197	estimated_end	11947197
	located_end	11968197		
CH322-18I22 X	10221178	10242178	estimated_end	10221178
	located_end	10242178		
CH322-18J04 2L	18953459	18974459	estimated_end	18953459
	located_end	18974459		
CH322-18J05 2L	22857115	22878115	estimated_end	22857115
	located_end	22878115		
CH322-18J06 X	16514643	16535643	located_end	16514643
	estimated_end	16535643		
CH322-18J07 3R	27154412	27175412	located_end	27154412
	estimated_end	27175412		
CH322-18J10 2L	11437681	11458681	estimated_end	11437681
	located_end	11458681		
CH322-18J15 2R	12624532	12645532	located_end	12624532
	estimated_end	12645532		
CH322-18J17 3R	5730101	5751101	located_end	5730101
	estimated_end	5751101		
CH322-18J21 3L	15906321	15927321	located_end	15906321
	estimated_end	15927321		
CH322-18J22 2L	97772	118772	estimated_end	97772
	located_end	118772	located_end	118772
CH322-18K01 3R	10101451	10122451	estimated_end	10101451
	located_end	10122451		
CH322-18K02 3R	2416929	2437929	located_end	2416929
	estimated_end	2437929		
CH322-18K07 2L	4860751	4881751	estimated_end	4860751
	located_end	4881751		
CH322-18K09 2L	2644054	2665054	estimated_end	2644054
	located_end	2665054		
CH322-18K15 2R	12657083	12678083	located_end	12657083
	estimated_end	12678083		
CH322-18K16 3L	21305069	21326069	estimated_end	21305069
	located_end	21326069		
CH322-18K20 3L	3850419	3871419	estimated_end	3850419
	located_end	3871419		
CH322-18K22 2R	11263654	11284654	estimated_end	11263654
	located_end	11284654		
CH322-18K24 2R	5410581	5431581	located_end	5410581
	estimated_end	5431581		
CH322-18L05 2R	18753521	18774521	estimated_end	18753521
	located_end	18774521		
CH322-18L08 3R	16195229	16216229	estimated_end	16195229
	located_end	16216229		
CH322-18L18 3L	22070252	22091252	estimated_end	22070252
	located_end	22091252		

CH322-18L19 3L	851394	872394	located_end	851394
	estimated_end	872394		
CH322-18L21 ArmU	8082804	8103804	located_end	8082804
	estimated_end	8103804		
CH322-18L22 3RHet	1641746	1662746	located_end	1641746
	estimated_end	1662746		
CH322-18L23 2R	7628127	7649127	estimated_end	7628127
	located_end	7649127		
CH322-18L24 3L	19495137	19516137	estimated_end	19495137
	located_end	19516137		
CH322-18M03 X	21022179	21043179	estimated_end	21022179
	located_end	21043179		
CH322-18M09 3L	13251961	13272961	located_end	13251961
	estimated_end	13272961		
CH322-18M11 ArmU	9281972	9302972	located_end	9281972
	estimated_end	9302972		
CH322-18M16 3L	23854922	23875922	estimated_end	23854922
	located_end	23875922		
CH322-18N08 3L	23783710	23804710	estimated_end	23783710
	located_end	23804710		
CH322-18N14 ArmU	6182881	6203881	located_end	6182881
	estimated_end	6203881		
CH322-18N22 3L	12450794	12471794	estimated_end	12450794
	located_end	12471794		
CH322-18O05 X	17695998	17716998	estimated_end	17695998
	located_end	17716998		
CH322-18O08 2R	2564968	2585968	estimated_end	2564968
	located_end	2585968		
CH322-18O14 X	11886644	11907644	estimated_end	11886644
	located_end	11907644		
CH322-18O15 3LHet	872055	893055	estimated_end	872055
	located_end	893055		
CH322-18O20 X	9047827	9068827	estimated_end	9047827
	located_end	9068827		
CH322-18O23 ArmU	252910	273910	located_end	252910
	estimated_end	273910		
CH322-18O24 3L	7202999	7223999	located_end	7202999
	estimated_end	7223999		
CH322-18P05 3R	20223118	20244118	located_end	20223118
	estimated_end	20244118		
CH322-18P09 3R	3202866	3223866	estimated_end	3202866
	located_end	3223866		
CH322-18P11 2R	13415610	13436610	estimated_end	13415610
	located_end	13436610		
CH322-18P17 2R	926868	947868	located_end	926868
	estimated_end	947868		
CH322-18P18 ArmU	5701096	5722096	located_end	5701096
	estimated_end	5722096		
CH322-190A05 3R	21917970	21938970	located_end	21917970
	estimated_end	21938970		
CH322-190A08 3L	11410069	11431069	estimated_end	11410069
	located_end	11431069		
CH322-190A13 2R	2537824	2558824	estimated_end	2537824
	located_end	2558824		

CH322-190A14	3L	6842705	6863705	estimated_end	6842705
		located_end	6863705		
CH322-190A19	X	22182500	22203500	estimated_end	22182500
		located_end	22203500		
CH322-190A21	2L	14686293	14707293	estimated_end	14686293
		located_end	14707293		
CH322-190B05	2R	9625549	9646549	located_end	9625549
		estimated_end	9646549		
CH322-190B08	2L	1760940	1781940	located_end	1760940
		estimated_end	1781940		
CH322-190B10	3L	18682453	18703453	located_end	18682453
		estimated_end	18703453		
CH322-190B13	3R	13019556	13040556	located_end	13019556
		estimated_end	13040556		
CH322-190B17	3R	19128031	19149031	estimated_end	19128031
		located_end	19149031		
CH322-190B21	2R	11505115	11526115	located_end	11505115
		estimated_end	11526115		
CH322-190B22	3R	830847	851847	estimated_end	830847
		located_end	851847		
CH322-190C01	3L	13799747	13820747	estimated_end	13799747
		located_end	13820747		
CH322-190C07	3L	13742375	13763375	located_end	13742375
		estimated_end	13763375		
CH322-190C19	3R	26145257	26166257	estimated_end	26145257
		located_end	26166257		
CH322-190C24	2R	3540868	3561868	located_end	3540868
		estimated_end	3561868		
CH322-190D01	2L	13776554	13797554	located_end	13776554
		estimated_end	13797554		
CH322-190D08	2R	10927980	10948980	located_end	10927980
		estimated_end	10948980		
CH322-190D09	2R	14231411	14252411	located_end	14231411
		estimated_end	14252411		
CH322-190E16	3L	11768653	11789653	estimated_end	11768653
		located_end	11789653		
CH322-190E24	3L	3590593	3611593	estimated_end	3590593
		located_end	3611593		
CH322-190F02	3L	14239135	14260135	located_end	14239135
		estimated_end	14260135		
CH322-190F03	2L	4776150	4797150	located_end	4776150
		estimated_end	4797150		
CH322-190F21	ArmU	7454359	7475359	located_end	7454359
		estimated_end	7475359		
CH322-190G01	X	10501071	10522071	located_end	10501071
		estimated_end	10522071		
CH322-190G16	3R	3527577	3548577	estimated_end	3527577
		located_end	3548577		
CH322-190G24	3R	23162191	23183191	located_end	23162191
		estimated_end	23183191		
CH322-190H04	X	14591243	14612243	located_end	14591243
		estimated_end	14612243		
CH322-190H19	2RHet	136665	157665	estimated_end	136665
		located_end	157665		

CH322-190H20	3R	16581882	16602882	located_end	16581882
		estimated_end	16602882		
CH322-190I01	3L	12291637	12312637	estimated_end	12291637
		located_end	12312637		
CH322-190I02	2L	5403963	5424963	estimated_end	5403963
		located_end	5424963		
CH322-190I20	3R	22203212	22224212	estimated_end	22203212
		located_end	22224212		
CH322-190I24	2R	13256578	13277578	located_end	13256578
		estimated_end	13277578		
CH322-190J01	2L	2849171	2870171	estimated_end	2849171
		located_end	2870171		
CH322-190J02	X	14960895	14981895	estimated_end	14960895
		located_end	14981895		
CH322-190J20	ArmU	7277989	7298989	estimated_end	7277989
		located_end	7298989		
CH322-190K24	3R	26648008	26669008	located_end	26648008
		estimated_end	26669008		
CH322-190L02	3RHet	95513 116513		estimated_end	95513
		located_end	116513		
CH322-190L20	3R	17165687	17186687	estimated_end	17165687
		located_end	17186687		
CH322-190L23	2L	1658628	1679628	located_end	1658628
		estimated_end	1679628		
CH322-190M01	X	13703548	13724548	located_end	13703548
		estimated_end	13724548		
CH322-190M04	2L	4062072	4083072	estimated_end	4062072
		located_end	4083072		
CH322-190M06	3L	17342260	17363260	located_end	17342260
		estimated_end	17363260		
CH322-190M08	3L	15084301	15105301	located_end	15084301
		estimated_end	15105301		
CH322-190M12	3L	17379992	17400992	located_end	17379992
		estimated_end	17400992		
CH322-190M14	2L	14351415	14372415	estimated_end	14351415
		located_end	14372415		
CH322-190M18	2L	13350450	13371450	estimated_end	13350450
		located_end	13371450		
CH322-190M19	3L	5199083	5220083	located_end	5199083
		estimated_end	5220083		
CH322-190M20	X	8027313	8048313	estimated_end	8027313
		located_end	8048313		
CH322-190N02	3RHet	1949022	1970022	located_end	1949022
		estimated_end	1970022		
CH322-190N06	3R	25588734	25609734	estimated_end	25588734
		located_end	25609734		
CH322-190N13	3R	15586328	15607328	located_end	15586328
		estimated_end	15607328		
CH322-190N16	3L	16726101	16747101	estimated_end	16726101
		located_end	16747101		
CH322-190N19	3R	2731042	2752042	located_end	2731042
		estimated_end	2752042		
CH322-190O16	2R	17751726	17772726	located_end	17751726
		estimated_end	17772726		

CH322-190017	2L	22909866	22930866	located_end	22909866
		estimated_end	22930866		
CH322-190018	3L	22468152	22489152	located_end	22468152
		estimated_end	22489152		
CH322-190019	X	9582349	9603349	located_end	9582349
		estimated_end	9603349		
CH322-190020	2R	5450659	5471659	located_end	5450659
		estimated_end	5471659		
CH322-190022	3L	4228052	4249052	located_end	4228052
		estimated_end	4249052		
CH322-190023	3LHet	2513472	2534472	located_end	2513472
		estimated_end	2534472		
CH322-190024	2R	1781403	1802403	estimated_end	1781403
		located_end	1802403		
CH322-190P05	X	13800826	13821826	located_end	13800826
		estimated_end	13821826		
CH322-190P11	2L	916606	937606	estimated_end	916606
		located_end	937606		
CH322-190P12	3R	12235825	12256825	located_end	12235825
		estimated_end	12256825		
CH322-190P13	3LHet	1501494	1522494	estimated_end	1501494
		located_end	1522494		
CH322-191A02	3L	9455498	9476498	located_end	9455498
		estimated_end	9476498		
CH322-191A03	2R	6478466	6499466	estimated_end	6478466
		located_end	6499466		
CH322-191A06	2R	12568440	12589440	estimated_end	12568440
		located_end	12589440		
CH322-191A07	2R	15103201	15124201	located_end	15103201
		estimated_end	15124201		
CH322-191A12	2R	8600970	8621970	estimated_end	8600970
		located_end	8621970		
CH322-191A14	3L	3215477	3236477	located_end	3215477
		estimated_end	3236477		
CH322-191A15	3R	21602557	21623557	located_end	21602557
		estimated_end	21623557		
CH322-191A16	3R	9238353	9259353	located_end	9238353
		estimated_end	9259353		
CH322-191A17	2R	9092460	9113460	located_end	9092460
		estimated_end	9113460		
CH322-191A18	2L	4854471	4875471	estimated_end	4854471
		located_end	4875471		
CH322-191A20	2L	13482850	13503850	estimated_end	13482850
		located_end	13503850		
CH322-191B02	X	1739050	1760050	located_end	1739050
		estimated_end	1760050		
CH322-191B03	2R	14341733	14362733	located_end	14341733
		estimated_end	14362733		
CH322-191B05	3R	15286860	15307860	located_end	15286860
		estimated_end	15307860		
CH322-191B08	2L	18262261	18283261	located_end	18262261
		estimated_end	18283261		
CH322-191B11	ArmU	9299052	9320052	estimated_end	9299052
		located_end	9320052		

CH322-191B18	3L	16445103	16466103	located_end	16445103
		estimated_end	16466103		
CH322-191B20	3RHet	1078036	1099036	estimated_end	1078036
		located_end	1099036		
CH322-191C01	3R	18224749	18245749	estimated_end	18224749
		located_end	18245749		
CH322-191C03	2R	6240759	6261759	located_end	6240759
		estimated_end	6261759		
CH322-191C04	2LHet	162630	183630	estimated_end	162630
		located_end	183630		
CH322-191C05	2R	13813089	13834089	located_end	13813089
		estimated_end	13834089		
CH322-191C13	3R	15020480	15041480	estimated_end	15020480
		located_end	15041480		
CH322-191D01	X	20161394	20182394	estimated_end	20161394
		located_end	20182394		
CH322-191D23	2R	10355398	10376398	estimated_end	10355398
		located_end	10376398		
CH322-191E01	3R	17770094	17791094	located_end	17770094
		estimated_end	17791094		
CH322-191E03	3R	16969385	16990385	estimated_end	16969385
		located_end	16990385		
CH322-191E06	3L	13697612	13718612	located_end	13697612
		estimated_end	13718612		
CH322-191E12	X	7707893	7728893	estimated_end	7707893
		located_end	7728893		
CH322-191E20	2L	14928148	14949148	located_end	14928148
		estimated_end	14949148		
CH322-191F06	3L	18803335	18824335	estimated_end	18803335
		located_end	18824335		
CH322-191G02	X	4556178	4577178	estimated_end	4556178
		located_end	4577178		
CH322-191G03	2L	3008304	3029304	located_end	3008304
		estimated_end	3029304		
CH322-191H10	X	11479076	11500076	estimated_end	11479076
		located_end	11500076		
CH322-191H24	2L	20220325	20241325	estimated_end	20220325
		located_end	20241325		
CH322-191I08	2R	14484401	14505401	estimated_end	14484401
		located_end	14505401		
CH322-191I22	3R	8954011	8975011	located_end	8954011
		estimated_end	8975011		
CH322-191K01	X	13381033	13402033	located_end	13381033
		estimated_end	13402033		
CH322-191K02	2R	6912397	6933397	located_end	6912397
		estimated_end	6933397		
CH322-191K04	2R	13957799	13978799	estimated_end	13957799
		located_end	13978799		
CH322-191K06	3L	20845039	20866039	estimated_end	20845039
		located_end	20866039		
CH322-191K12	3RHet	2440317	2461317	located_end	2440317
		estimated_end	2461317		
CH322-191K24	2R	13683933	13704933	estimated_end	13683933
		located_end	13704933		

CH322-191L02	2L	5927421	5948421	located_end	5927421
		estimated_end	5948421		
CH322-191L15	ArmU	6457131	6478131	estimated_end	6457131
		located_end	6478131		
CH322-191L24	X	14614228	14635228	estimated_end	14614228
		located_end	14635228		
CH322-191M07	3L	543734	564734	estimated_end	543734
		located_end	564734		
CH322-191M18	2L	21309278	21330278	estimated_end	21309278
		located_end	21330278		
CH322-191M19	X	7230471	7251471	located_end	7230471
		estimated_end	7251471		
CH322-191M22	2R	15835108	15856108	located_end	15835108
		estimated_end	15856108		
CH322-191N06	X	5444979	5465979	estimated_end	5444979
		located_end	5465979		
CH322-191N07	2RHet	2995136	3016136	estimated_end	2995136
		located_end	3016136		
CH322-191N09	3L	9772044	9793044	estimated_end	9772044
		located_end	9793044		
CH322-191N13	3L	9936588	9957588	estimated_end	9936588
		located_end	9957588		
CH322-191N14	3R	11395450	11416450	located_end	11395450
		estimated_end	11416450		
CH322-191N20	3R	3872273	3893273	estimated_end	3872273
		located_end	3893273		
CH322-191O05	2L	18647079	18668079	estimated_end	18647079
		located_end	18668079		
CH322-191O07	2L	1472438	1493438	located_end	1472438
		estimated_end	1493438		
CH322-191O08	3L	6476682	6497682	located_end	6476682
		estimated_end	6497682		
CH322-191O13	ArmU	4541378	4562378	estimated_end	4541378
		located_end	4562378		
CH322-191O16	ArmU	6574397	6595397	estimated_end	6574397
		located_end	6595397		
CH322-191O18	3R	13190312	13211312	located_end	13190312
		estimated_end	13211312		
CH322-191O20	3L	1484028	1505028	located_end	1484028
		estimated_end	1505028		
CH322-191P01	X	15415774	15436774	located_end	15415774
		estimated_end	15436774		
CH322-191P10	3L	19199415	19220415	estimated_end	19199415
		located_end	19220415		
CH322-191P13	3R	12515267	12536267	located_end	12515267
		estimated_end	12536267		
CH322-191P15	3R	14172709	14193709	estimated_end	14172709
		located_end	14193709		
CH322-191P16	2R	14387375	14408375	estimated_end	14387375
		located_end	14408375		
CH322-191P17	3R	25286747	25307747	estimated_end	25286747
		located_end	25307747		
CH322-191P18	X	20247096	20268096	located_end	20247096
		estimated_end	20268096		

CH322-191P19	3R	21511012	21532012	estimated_end	21511012
		located_end	21532012		
CH322-192A02	2L	19077424	19098424	located_end	19077424
		estimated_end	19098424		
CH322-192A04	2L	13896488	13917488	estimated_end	13896488
		located_end	13917488		
CH322-192A06	3L	15208421	15229421	estimated_end	15208421
		located_end	15229421		
CH322-192A08	3L	12543689	12564689	located_end	12543689
		estimated_end	12564689		
CH322-192A10	3R	20573948	20594948	estimated_end	20573948
		located_end	20594948		
CH322-192A12	2L	1578402	1599402	located_end	1578402
		estimated_end	1599402		
CH322-192A13	3R	5167890	5188890	estimated_end	5167890
		located_end	5188890		
CH322-192A15	3R	17822451	17843451	located_end	17822451
		estimated_end	17843451		
CH322-192A16	ArmU	4873278	4894278	located_end	4873278
		estimated_end	4894278		
CH322-192A17	2L	17830733	17851733	located_end	17830733
		estimated_end	17851733		
CH322-192A20	2L	12285986	12306986	located_end	12285986
		estimated_end	12306986		
CH322-192A21	ArmU	7171218	7192218	estimated_end	7171218
		located_end	7192218		
CH322-192A22	3L	11944562	11965562	located_end	11944562
		estimated_end	11965562		
CH322-192A23	X	22163541	22184541	estimated_end	22163541
		located_end	22184541		
CH322-192B01	2R	5517841	5538841	located_end	5517841
		estimated_end	5538841		
CH322-192B05	X	2766572	2787572	estimated_end	2766572
		located_end	2787572		
CH322-192B06	3R	20881580	20902580	located_end	20881580
		estimated_end	20902580		
CH322-192B07	ArmU	1546479	1567479	estimated_end	1546479
		located_end	1567479		
CH322-192B11	2R	7486203	7507203	located_end	7486203
		estimated_end	7507203		
CH322-192B18	3R	25957888	25978888	estimated_end	25957888
		located_end	25978888		
CH322-192B19	3R	12898103	12919103	located_end	12898103
		estimated_end	12919103		
CH322-192B20	3L	5916026	5937026	estimated_end	5916026
		located_end	5937026		
CH322-192B24	3R	13005593	13026593	estimated_end	13005593
		located_end	13026593		
CH322-192C01	X	6763443	6784443	located_end	6763443
		estimated_end	6784443		
CH322-192C07	X	16993062	17014062	located_end	16993062
		estimated_end	17014062		
CH322-192D18	ArmU	5677991	5698991	estimated_end	5677991
		located_end	5698991		

CH322-192E05	3L	8003647	8024647	estimated_end	8003647
		located_end	8024647		
CH322-192E18	X	11166496	11187496	estimated_end	11166496
		located_end	11187496		
CH322-192E20	ArmU	7276739	7297739	estimated_end	7276739
		located_end	7297739		
CH322-192E24	2L	17138549	17159549	estimated_end	17138549
		located_end	17159549		
CH322-192F04	2RHet	2856620	2877620	located_end	2856620
		estimated_end	2877620		
CH322-192F09	3R	22712340	22733340	estimated_end	22712340
		located_end	22733340		
CH322-192F17	3R	13735316	13756316	located_end	13735316
		estimated_end	13756316		
CH322-192F18	2R	7225938	7246938	estimated_end	7225938
		located_end	7246938		
CH322-192G04	X	2532970	2553970	estimated_end	2532970
		located_end	2553970		
CH322-192H17	3L	19694718	19715718	located_end	19694718
		estimated_end	19715718		
CH322-192I02	3L	15369894	15390894	located_end	15369894
		estimated_end	15390894		
CH322-192I11	3R	26906246	26927246	estimated_end	26906246
		located_end	26927246		
CH322-192I20	3LHet	241737	262737	located_end	241737
		estimated_end	262737		
CH322-192J01	X	8612409	8633409	located_end	8612409
		estimated_end	8633409		
CH322-192J10	X	2666285	2687285	estimated_end	2666285
		located_end	2687285		
CH322-192J13	ArmU	1880268	1901268	located_end	1880268
		estimated_end	1901268		
CH322-192J18	3LHet	489747	510747	located_end	489747
		estimated_end	510747		
CH322-192K04	2R	925611	946611	located_end	925611
		estimated_end	946611		
CH322-192K09	3L	3566990	3587990	located_end	3566990
		estimated_end	3587990		
CH322-192K11	2R	2799753	2820753	located_end	2799753
		estimated_end	2820753		
CH322-192K12	2RHet	1556583	1577583	located_end	1556583
		estimated_end	1577583		
CH322-192K19	ArmU	7136588	7157588	located_end	7136588
		estimated_end	7157588		
CH322-192L02	2R	13580871	13601871	located_end	13580871
		estimated_end	13601871		
CH322-192L06	3L	15592755	15613755	estimated_end	15592755
		located_end	15613755		
CH322-192L24	3L	9895940	9916940	estimated_end	9895940
		located_end	9916940		
CH322-192M03	3L	24009099	24030099	estimated_end	24009099
		located_end	24030099		
CH322-192M05	X	427235	448235	located_end	427235
		estimated_end	448235		

CH322-192M07	3L	11374169	11395169	located_end	11374169
		estimated_end	11395169		
CH322-192M12	X	7533992	7554992	located_end	7533992
		estimated_end	7554992		
CH322-192M13	2R	16597972	16618972	estimated_end	16597972
		located_end	16618972		
CH322-192M21	ArmU	5676307	5697307	estimated_end	5676307
		located_end	5697307		
CH322-192N02	3R	5587945	5608945	estimated_end	5587945
		located_end	5608945		
CH322-192N03	3R	3614631	3635631	estimated_end	3614631
		located_end	3635631		
CH322-192N04	2R	20961797	20982797	estimated_end	20961797
		located_end	20982797		
CH322-192N13	X	6805996	6826996	located_end	6805996
		estimated_end	6826996		
CH322-192N24	3R	455559	476559	estimated_end	455559
		located_end	476559		
CH322-192O02	2R	17345488	17366488	estimated_end	17345488
		located_end	17366488		
CH322-192O09	3R	2227694	2248694	estimated_end	2227694
		located_end	2248694		
CH322-192O10	4	627731	648731	estimated_end	627731
		located_end	648731		
CH322-192O11	X	2150203	2171203	located_end	2150203
		estimated_end	2171203		
CH322-192O12	3R	25445805	25466805	estimated_end	25445805
		located_end	25466805		
CH322-192O13	2R	3018395	3039395	estimated_end	3018395
		located_end	3039395		
CH322-192O17	2R	5765613	5786613	estimated_end	5765613
		located_end	5786613		
CH322-192O18	2L	14647960	14668960	estimated_end	14647960
		located_end	14668960		
CH322-192O20	2L	5742032	5763032	located_end	5742032
		estimated_end	5763032		
CH322-192O23	3L	16351166	16372166	located_end	16351166
		estimated_end	16372166		
CH322-192P02	2L	511653	532653	located_end	511653
		estimated_end	532653		
CH322-192P10	3L	15021430	15042430	estimated_end	15021430
		located_end	15042430		
CH322-192P11	3L	20363837	20384837	estimated_end	20363837
		located_end	20384837		
CH322-192P12	3L	2278038	2299038	estimated_end	2278038
		located_end	2299038		
CH322-192P14	3L	2306487	2327487	located_end	2306487
		estimated_end	2327487		
CH322-192P16	X	5423085	5444085	estimated_end	5423085
		located_end	5444085		
CH322-192P17	3R	16339464	16360464	estimated_end	16339464
		located_end	16360464		
CH322-192P18	3R	288435	309435	estimated_end	288435
		located_end	309435		

CH322-192P20	X	6039863	6060863	estimated_end	6039863
		located_end	6060863		
CH322-192P21	3R	5514290	5535290	estimated_end	5514290
		located_end	5535290		
CH322-19A02 ArmU		6175573	6196573	located_end	6175573
		estimated_end	6196573		
CH322-19A15 3R		9595657	9616657	estimated_end	9595657
		located_end	9616657		
CH322-19B06 3L		24395392	24416392	located_end	24395392
		estimated_end	24416392		
CH322-19B07 X		13164551	13185551	estimated_end	13164551
		located_end	13185551		
CH322-19B09 3L		16259478	16280478	estimated_end	16259478
		located_end	16280478		
CH322-19B14 2R		4812898	4833898	estimated_end	4812898
		located_end	4833898		
CH322-19B19 3L		22303509	22324509	estimated_end	22303509
		located_end	22324509		
CH322-19B22 3R		1869520	1890520	estimated_end	1869520
		located_end	1890520		
CH322-19C07 3L		19277873	19298873	located_end	19277873
		estimated_end	19298873		
CH322-19C14 ArmU		5697882	5718882	located_end	5697882
		estimated_end	5718882		
CH322-19C15 2R		2997541	3018541	located_end	2997541
		estimated_end	3018541		
CH322-19C16 X		7403493	7424493	located_end	7403493
		estimated_end	7424493		
CH322-19C19 2R		1172137	1193137	estimated_end	1172137
		located_end	1193137		
CH322-19C20 X		255483	276483	estimated_end	255483
		located_end	276483		
CH322-19C22 2R		5739601	5760601	estimated_end	5739601
		located_end	5760601		
CH322-19C24 2R		8936992	8957992	located_end	8936992
		estimated_end	8957992		
CH322-19D02 2R		9285798	9306798	located_end	9285798
		estimated_end	9306798		
CH322-19D08 3L		4212511	4233511	located_end	4212511
		estimated_end	4233511		
CH322-19D13 3R		2648717	2669717	estimated_end	2648717
		located_end	2669717		
CH322-19D22 3L		18914357	18935357	located_end	18914357
		estimated_end	18935357		
CH322-19D24 3R		4927037	4948037	located_end	4927037
		estimated_end	4948037		
CH322-19E01 3R		20463896	20484896	located_end	20463896
		estimated_end	20484896		
CH322-19E08 3L		8033884	8054884	estimated_end	8033884
		located_end	8054884		
CH322-19E15 X		3269120	3290120	located_end	3269120
		estimated_end	3290120		
CH322-19F01 X		13895830	13916830	estimated_end	13895830
		located_end	13916830		

CH322-19F07 3L	24125054	24146054	estimated_end	24125054
	located_end	24146054		
CH322-19F20 2L	20414287	20435287	estimated_end	20414287
	located_end	20435287		
CH322-19G01 2L	2083537	2104537	located_end	2083537
	estimated_end	2104537		
CH322-19G03 3R	23019415	23040415	located_end	23019415
	estimated_end	23040415		
CH322-19G05 3L	15229695	15250695	located_end	15229695
	estimated_end	15250695		
CH322-19G06 2L	12315536	12336536	estimated_end	12315536
	located_end	12336536		
CH322-19G07 3L	21047089	21068089	located_end	21047089
	estimated_end	21068089		
CH322-19G10 2L	14606302	14627302	estimated_end	14606302
	located_end	14627302		
CH322-19G11 3R	18415193	18436193	estimated_end	18415193
	located_end	18436193		
CH322-19G15 3R	1022820	1043820	located_end	1022820
	estimated_end	1043820		
CH322-19G19 X	16441175	16462175	estimated_end	16441175
	located_end	16462175		
CH322-19G23 3L	21595364	21616364	estimated_end	21595364
	located_end	21616364		
CH322-19H01 X	17733362	17754362	located_end	17733362
	estimated_end	17754362		
CH322-19H03 X	3287291	3308291	estimated_end	3287291
	located_end	3308291		
CH322-19H07 3L	21593073	21614073	located_end	21593073
	estimated_end	21614073		
CH322-19H11 2R	2548793	2569793	located_end	2548793
	estimated_end	2569793		
CH322-19H17 3L	14539023	14560023	located_end	14539023
	estimated_end	14560023		
CH322-19H21 2R	5863967	5884967	estimated_end	5863967
	located_end	5884967		
CH322-19H24 3R	5888339	5909339	located_end	5888339
	estimated_end	5909339		
CH322-19I01 3R	336878	357878	located_end	336878
	estimated_end	357878		
CH322-19I08 3R	12484602	12505602	located_end	12484602
	estimated_end	12505602		
CH322-19I14 2R	1387338	1408338	located_end	1387338
	estimated_end	1408338		
CH322-19I18 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-19I24 2L	15765733	15786733	estimated_end	15765733
	located_end	15786733		
CH322-19J06 2L	8917792	8938792	located_end	8917792
	estimated_end	8938792		
CH322-19J08 2L	6398994	6419994	estimated_end	6398994
	located_end	6419994		
CH322-19J11 X	12877157	12898157	located_end	12877157
	estimated_end	12898157		

CH322-19J17 3R	18137070	18158070	estimated_end	18137070
	located_end	18158070		
CH322-19J18 2R	20362269	20383269	located_end	20362269
	estimated_end	20383269		
CH322-19J22 X	18995376	19016376	estimated_end	18995376
	located_end	19016376		
CH322-19K04 ArmU	2798796	2819796	located_end	2798796
	estimated_end	2819796		
CH322-19K08 ArmU	31628	52628	estimated_end	31628
	located_end	52628		
CH322-19K15 2R	17255418	17276418	estimated_end	17255418
	located_end	17276418		
CH322-19K18 X	15530017	15551017	located_end	15530017
	estimated_end	15551017		
CH322-19K20 3R	13400766	13421766	estimated_end	13400766
	located_end	13421766		
CH322-19K23 2L	19764416	19785416	located_end	19764416
	estimated_end	19785416		
CH322-19L02 2L	5678986	5699986	located_end	5678986
	estimated_end	5699986		
CH322-19L14 2L	535992	556992	estimated_end	535992
	located_end	556992		
CH322-19L15 2R	18582736	18603736	estimated_end	18582736
	located_end	18603736		
CH322-19L17 2L	3053843	3074843	located_end	3053843
	estimated_end	3074843		
CH322-19L20 3R	8177940	8198940	estimated_end	8177940
	located_end	8198940		
CH322-19L21 2R	4620533	4641533	estimated_end	4620533
	located_end	4641533		
CH322-19L24 3R	3690573	3711573	located_end	3690573
	estimated_end	3711573		
CH322-19M02 2R	15378179	15399179	estimated_end	15378179
	located_end	15399179		
CH322-19M04 3R	26337916	26358916	estimated_end	26337916
	located_end	26358916		
CH322-19M11 X	22083597	22104597	estimated_end	22083597
	located_end	22104597		
CH322-19M12 2L	14741832	14762832	estimated_end	14741832
	located_end	14762832		
CH322-19M18 3L	18047558	18068558	estimated_end	18047558
	located_end	18068558		
CH322-19M19 3R	10616626	10637626	located_end	10616626
	estimated_end	10637626		
CH322-19N03 3L	18667057	18688057	estimated_end	18667057
	located_end	18688057		
CH322-19N08 2R	9277706	9298706	located_end	9277706
	estimated_end	9298706		
CH322-19N16 ArmU	5714476	5735476	located_end	5714476
	estimated_end	5735476		
CH322-19N22 2L	18912997	18933997	estimated_end	18912997
	located_end	18933997		
CH322-19O15 2R	19374338	19395338	located_end	19374338
	estimated_end	19395338		

CH322-19P02 2R	16718968	16739968	estimated_end	16718968
	located_end	16739968		
CH322-19P03 X	11568434	11589434	located_end	11568434
	estimated_end	11589434		
CH322-19P05 X	11020440	11041440	estimated_end	11020440
	located_end	11041440		
CH322-19P12 3L	6034742	6055742	estimated_end	6034742
	located_end	6055742		
CH322-20A01 3R	2068681	2089681	estimated_end	2068681
	located_end	2089681		
CH322-20A16 3RHet	298137	319137	located_end	298137
	estimated_end	319137		
CH322-20A17 2RHet	60593	81593	estimated_end	60593
	located_end	81593		
CH322-20B01 2R	19633750	19654750	estimated_end	19633750
	located_end	19654750		
CH322-20B09 2R	2141727	2162727	located_end	2141727
	estimated_end	2162727		
CH322-20B11 2L	20387054	20408054	located_end	20387054
	estimated_end	20408054		
CH322-20B16 ArmU	2182245	2203245	estimated_end	2182245
	located_end	2203245		
CH322-20C01 3L	7947217	7968217	located_end	7947217
	estimated_end	7968217		
CH322-20C07 2L	20537202	20558202	estimated_end	20537202
	located_end	20558202		
CH322-20C10 3L	20445043	20466043	located_end	20445043
	estimated_end	20466043		
CH322-20C12 3R	24441179	24462179	located_end	24441179
	estimated_end	24462179		
CH322-20C16 3L	23335800	23356800	located_end	23335800
	estimated_end	23356800		
CH322-20C20 3R	20174888	20195888	estimated_end	20174888
	located_end	20195888		
CH322-20C23 3L	22802184	22823184	estimated_end	22802184
	located_end	22823184		
CH322-20D19 3L	20415298	20436298	located_end	20415298
	estimated_end	20436298		
CH322-20D20 3L	19857210	19878210	located_end	19857210
	estimated_end	19878210		
CH322-20D21 3L	23637854	23658854	estimated_end	23637854
	located_end	23658854		
CH322-20D24 2L	8796361	8817361	located_end	8796361
	estimated_end	8817361		
CH322-20E01 3R	20909621	20930621	estimated_end	20909621
	located_end	20930621		
CH322-20E04 2R	10913589	10934589	located_end	10913589
	estimated_end	10934589		
CH322-20E11 X	1736307	1757307	estimated_end	1736307
	located_end	1757307		
CH322-20E17 3L	9904443	9925443	located_end	9904443
	estimated_end	9925443		
CH322-20E22 4	1307072	1328072	located_end	1307072
	estimated_end	1328072		

CH322-20F07 3L	2738581	2759581	located_end 2738581
estimated_end	2759581		
CH322-20F10 2R	419287	440287	located_end 419287
estimated_end	440287		
CH322-20F14 2L	282832	303832	located_end 282832
estimated_end	303832		
CH322-20F19 3R	15192646	15213646	located_end 15192646
estimated_end	15213646		
CH322-20G02 2RHet	3119607	3140607	estimated_end 3119607
located_end	3140607		
CH322-20G09 3R	8639559	8660559	located_end 8639559
estimated_end	8660559		
CH322-20G10 2R	12992313	13013313	located_end 12992313
estimated_end	13013313		
CH322-20G14 2R	1214506	1235506	located_end 1214506
estimated_end	1235506		
CH322-20G16 2R	15150030	15171030	located_end 15150030
estimated_end	15171030		
CH322-20G18 X	941138	962138	located_end 941138
estimated_end	962138		
CH322-20G19 3L	23530166	23551166	located_end 23530166
estimated_end	23551166		
CH322-20G24 3L	16842902	16863902	estimated_end 16842902
located_end	16863902		
CH322-20H06 2L	5113062	5134062	located_end 5113062
estimated_end	5134062		
CH322-20I03 2L	21922358	21943358	estimated_end 21922358
located_end	21943358		
CH322-20I05 X	7753478	7774478	estimated_end 7753478
located_end	7774478		
CH322-20I11 3L	12440983	12461983	located_end 12440983
estimated_end	12461983		
CH322-20I14 3R	10369805	10390805	located_end 10369805
estimated_end	10390805		
CH322-20I15 3RHet	767075	788075	located_end 767075
estimated_end	788075		
CH322-20I17 2L	480190	501190	estimated_end 480190
located_end	501190		
CH322-20I19 3R	15719845	15740845	estimated_end 15719845
located_end	15740845		
CH322-20I23 2R	2669859	2690859	estimated_end 2669859
located_end	2690859		
CH322-20I24 X	16492072	16513072	located_end 16492072
estimated_end	16513072		
CH322-20J05 3R	4430715	4451715	estimated_end 4430715
located_end	4451715		
CH322-20J12 ArmU	249642	270642	located_end 249642
estimated_end	270642		
CH322-20J15 2R	7504643	7525643	located_end 7504643
estimated_end	7525643		
CH322-20J16 3R	3612118	3633118	estimated_end 3612118
located_end	3633118		
CH322-20J18 3L	19914290	19935290	estimated_end 19914290
located_end	19935290		

CH322-20J19 2L	12867225	12888225	estimated_end	12867225
	located_end	12888225		
CH322-20K06 2RHet	1854799	1875799	estimated_end	1854799
	located_end	1875799		
CH322-20K07 3R	1599635	1620635	located_end	1599635
	estimated_end	1620635		
CH322-20K09 2R	4869721	4890721	located_end	4869721
	estimated_end	4890721		
CH322-20K14 X	7207855	7228855	estimated_end	7207855
	located_end	7228855		
CH322-20K19 3R	7774225	7795225	located_end	7774225
	estimated_end	7795225		
CH322-20K22 3L	15653980	15674980	located_end	15653980
	estimated_end	15674980		
CH322-20L08 2R	10196718	10217718	estimated_end	10196718
	located_end	10217718		
CH322-20L11 ArmU	8181981	8202981	estimated_end	8181981
	located_end	8202981		
CH322-20L19 2L	10854318	10875318	located_end	10854318
	estimated_end	10875318		
CH322-20L21 2L	330179	351179	located_end	330179
	estimated_end	351179		
CH322-20L24 2R	4017264	4038264	located_end	4017264
	estimated_end	4038264		
CH322-20M02 2R	4776168	4797168	located_end	4776168
	estimated_end	4797168		
CH322-20M16 2R	299329	320329	located_end	299329
	estimated_end	320329		
CH322-20M23 ArmU	915034	936034	located_end	915034
	estimated_end	936034		
CH322-20N12 3LHet	368823	389823	estimated_end	368823
	located_end	389823		
CH322-20N14 2L	17267255	17288255	located_end	17267255
	estimated_end	17288255		
CH322-20O09 3R	27062722	27083722	located_end	27062722
	estimated_end	27083722		
CH322-20O18 3L	8206356	8227356	located_end	8206356
	estimated_end	8227356		
CH322-20O23 3L	17889259	17910259	located_end	17889259
	estimated_end	17910259		
CH322-20P10 3R	13336993	13357993	estimated_end	13336993
	located_end	13357993		
CH322-20P21 3L	3815032	3836032	located_end	3815032
	estimated_end	3836032		
CH322-20P23 2L	18499981	18520981	estimated_end	18499981
	located_end	18520981		
CH322-21A01 2R	11235024	11256024	estimated_end	11235024
	located_end	11256024		
CH322-21A02 2R	11235024	11256024	estimated_end	11235024
	located_end	11256024		
CH322-21A07 3L	20411700	20432700	estimated_end	20411700
	located_end	20432700		
CH322-21B10 3L	16671144	16692144	estimated_end	16671144
	located_end	16692144		

CH322-21B18 2L	3857229	3878229	located_end	3857229
	estimated_end	3878229		
CH322-21B21 3R	8087007	8108007	located_end	8087007
	estimated_end	8108007		
CH322-21B22 X	7114219	7135219	estimated_end	7114219
	located_end	7135219		
CH322-21C05 3L	878797	899797	estimated_end	878797
	located_end	899797		
CH322-21C06 2RHet	1264624	1285624	estimated_end	1264624
	located_end	1285624		
CH322-21C14 X	1794870	1815870	located_end	1794870
	estimated_end	1815870		
CH322-21C15 2L	12991555	13012555	estimated_end	12991555
	located_end	13012555		
CH322-21D12 X	19096478	19117478	located_end	19096478
	estimated_end	19117478		
CH322-21D18 3R	11309451	11330451	estimated_end	11309451
	located_end	11330451		
CH322-21D23 2R	12184189	12205189	estimated_end	12184189
	located_end	12205189		
CH322-21E04 2R	12717008	12738008	estimated_end	12717008
	located_end	12738008		
CH322-21E06 2L	13689109	13710109	located_end	13689109
	estimated_end	13710109		
CH322-21E14 X	1127723	1148723	located_end	1127723
	estimated_end	1148723		
CH322-21E16 2L	4881561	4902561	located_end	4881561
	estimated_end	4902561		
CH322-21E18 3L	15971318	15992318	estimated_end	15971318
	located_end	15992318		
CH322-21E20 2R	10904424	10925424	estimated_end	10904424
	located_end	10925424		
CH322-21F08 2L	13372768	13393768	located_end	13372768
	estimated_end	13393768		
CH322-21F09 3L	20235937	20256937	located_end	20235937
	estimated_end	20256937		
CH322-21F10 2R	20134257	20155257	estimated_end	20134257
	located_end	20155257		
CH322-21F16 2RHet	2424219	2445219	estimated_end	2424219
	located_end	2445219		
CH322-21F20 2L	5560620	5581620	located_end	5560620
	estimated_end	5581620		
CH322-21F24 3L	13385020	13406020	located_end	13385020
	estimated_end	13406020		
CH322-21G01 2RHet	1274198	1295198	estimated_end	1274198
	located_end	1295198		
CH322-21G04 3L	3937051	3958051	estimated_end	3937051
	located_end	3958051		
CH322-21G09 ArmU	6009886	6030886	estimated_end	6009886
	located_end	6030886		
CH322-21G15 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-21G20 2R	6221285	6242285	estimated_end	6221285
	located_end	6242285		

CH322-21G22 2L	21929617	21950617	estimated_end	21929617
	located_end	21950617		
CH322-21G24 X	21437469	21458469	located_end	21437469
	estimated_end	21458469		
CH322-21H01 3R	16122899	16143899	located_end	16122899
	estimated_end	16143899		
CH322-21H06 3R	3172531	3193531	estimated_end	3172531
	located_end	3193531		
CH322-21H09 X	2659104	2680104	located_end	2659104
	estimated_end	2680104		
CH322-21H13 X	19572478	19593478	estimated_end	19572478
	located_end	19593478		
CH322-21H15 X	15848146	15869146	located_end	15848146
	estimated_end	15869146		
CH322-21H18 2R	2416082	2437082	located_end	2416082
	estimated_end	2437082		
CH322-21H23 3R	5962288	5983288	estimated_end	5962288
	located_end	5983288		
CH322-21I01 X	6460741	6481741	estimated_end	6460741
	located_end	6481741		
CH322-21I04 X	6410562	6431562	located_end	6410562
	estimated_end	6431562		
CH322-21I05 2R	3245934	3266934	estimated_end	3245934
	located_end	3266934		
CH322-21I06 X	10821726	10842726	located_end	10821726
	estimated_end	10842726		
CH322-21I07 X	13853241	13874241	estimated_end	13853241
	located_end	13874241		
CH322-21I10 3L	21298292	21319292	estimated_end	21298292
	located_end	21319292		
CH322-21I20 2L	10793054	10814054	located_end	10793054
	estimated_end	10814054		
CH322-21I21 2L	11375987	11396987	estimated_end	11375987
	located_end	11396987		
CH322-21J04 3L	6999383	7020383	located_end	6999383
	estimated_end	7020383		
CH322-21J05 3R	17285184	17306184	located_end	17285184
	estimated_end	17306184		
CH322-21J08 2L	1344744	1365744	located_end	1344744
	estimated_end	1365744		
CH322-21J09 2R	3550630	3571630	estimated_end	3550630
	located_end	3571630		
CH322-21J10 3LHet	1572009	1593009	located_end	1572009
	estimated_end	1593009		
CH322-21J15 3R	25433531	25454531	estimated_end	25433531
	located_end	25454531		
CH322-21J17 X	302178	323178	located_end	302178
	estimated_end	323178		
CH322-21J20 2L	487380	508380	estimated_end	487380
	located_end	508380		
CH322-21J21 3L	12358395	12379395	located_end	12358395
	estimated_end	12379395		
CH322-21J22 3R	27010813	27031813	estimated_end	27010813
	located_end	27031813		

CH322-21J24 2R	6195229	6216229	located_end	6195229
	estimated_end	6216229		
CH322-21K01 2R	20940025	20961025	estimated_end	20940025
	located_end	20961025		
CH322-21K03 X	6460774	6481774	estimated_end	6460774
	located_end	6481774		
CH322-21K04 3R	24483069	24504069	estimated_end	24483069
	located_end	24504069		
CH322-21K11 X	2044673	2065673	estimated_end	2044673
	located_end	2065673		
CH322-21K16 X	619306	640306	located_end	619306
	estimated_end	640306		
CH322-21K18 3L	9684022	9705022	estimated_end	9684022
	located_end	9705022		
CH322-21K21 X	13275266	13296266	estimated_end	13275266
	located_end	13296266		
CH322-21L08 3L	15202134	15223134	located_end	15202134
	estimated_end	15223134		
CH322-21L10 ArmU	5676307	5697307	estimated_end	5676307
	located_end	5697307		
CH322-21L21 ArmU	41766	62766	located_end	41766
	estimated_end	62766		
CH322-21M03 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-21M08 3L	19419829	19440829	estimated_end	19419829
	located_end	19440829		
CH322-21M11 3R	2314714	2335714	located_end	2314714
	estimated_end	2335714		
CH322-21M13 3L	17060092	17081092	located_end	17060092
	estimated_end	17081092		
CH322-21M21 3LHet	1154394	1175394	located_end	1154394
	estimated_end	1175394		
CH322-21M24 3L	22269484	22290484	estimated_end	22269484
	located_end	22290484		
CH322-21N09 2L	8176625	8197625	located_end	8176625
	estimated_end	8197625		
CH322-21N11 3L	4239963	4260963	estimated_end	4239963
	located_end	4260963		
CH322-21N12 3L	24121266	24142266	located_end	24121266
	estimated_end	24142266		
CH322-21N14 3L	782525	803525	estimated_end	782525
	located_end	803525		
CH322-21N23 3R	8459828	8480828	estimated_end	8459828
	located_end	8480828		
CH322-21O05 2L	214591	235591	located_end	214591
	estimated_end	235591		
CH322-21O11 3LHet	1160399	1181399	estimated_end	1160399
	located_end	1181399		
CH322-21O14 X	21419704	21440704	estimated_end	21419704
	located_end	21440704		
CH322-21O20 ArmU	5006932	5027932	estimated_end	5006932
	located_end	5027932		
CH322-21O23 3R	24662975	24683975	estimated_end	24662975
	located_end	24683975		

CH322-21O24 3L	11466669	11487669	located_end	11466669
	estimated_end	11487669		
CH322-21P12 2L	7330715	7351715	located_end	7330715
	estimated_end	7351715		
CH322-21P16 3R	19303575	19324575	estimated_end	19303575
	located_end	19324575		
CH322-21P23 X	6538498	6559498	estimated_end	6538498
	located_end	6559498		
CH322-21P24 3R	3072275	3093275	located_end	3072275
	estimated_end	3093275		
CH322-22A13 2L	14740679	14761679	estimated_end	14740679
	located_end	14761679		
CH322-22A14 X	13900633	13921633	estimated_end	13900633
	located_end	13921633		
CH322-22A16 3R	15012160	15033160	estimated_end	15012160
	located_end	15033160		
CH322-22A22 X	2701413	2722413	located_end	2701413
	estimated_end	2722413		
CH322-22A23 3L	20527434	20548434	located_end	20527434
	estimated_end	20548434		
CH322-22B06 3L	21839895	21860895	estimated_end	21839895
	located_end	21860895		
CH322-22B07 ArmU	149196	170196	estimated_end	149196
	located_end	170196		
CH322-22B09 2R	11422241	11443241	located_end	11422241
	estimated_end	11443241		
CH322-22C04 3R	16566654	16587654	estimated_end	16566654
	located_end	16587654		
CH322-22C13 2R	18569036	18590036	estimated_end	18569036
	located_end	18590036		
CH322-22C17 3L	11125198	11146198	estimated_end	11125198
	located_end	11146198		
CH322-22C18 2R	5231221	5252221	located_end	5231221
	estimated_end	5252221		
CH322-22C19 3L	22806412	22827412	estimated_end	22806412
	located_end	22827412		
CH322-22C20 2L	3777662	3798662	located_end	3777662
	estimated_end	3798662		
CH322-22D19 X	13762972	13783972	located_end	13762972
	estimated_end	13783972		
CH322-22D23 3L	12767954	12788954	located_end	12767954
	estimated_end	12788954		
CH322-22E05 3L	16470	37470	estimated_end	16470
	located_end	37470	located_end	37470
CH322-22E17 3R	3194822	3215822	estimated_end	3194822
	located_end	3215822		
CH322-22F09 ArmU	4233797	4254797	located_end	4233797
	estimated_end	4254797		
CH322-22F17 2R	4248268	4269268	estimated_end	4248268
	located_end	4269268		
CH322-22F19 2L	9160101	9181101	located_end	9160101
	estimated_end	9181101		
CH322-22G01 3R	7786587	7807587	estimated_end	7786587
	located_end	7807587		

CH322-22G07 3LHet	856618	877618	estimated_end	856618
	located_end	877618		
CH322-22G08 2R	8906709	8927709	located_end	8906709
	estimated_end	8927709		
CH322-22G10 2L	6954434	6975434	located_end	6954434
	estimated_end	6975434		
CH322-22G18 3R	16934602	16955602	located_end	16934602
	estimated_end	16955602		
CH322-22G19 3L	21737915	21758915	estimated_end	21737915
	located_end	21758915		
CH322-22G20 X	6240138	6261138	estimated_end	6240138
	located_end	6261138		
CH322-22H14 3LHet	1891284	1912284	located_end	1891284
	estimated_end	1912284		
CH322-22H15 3L	21930378	21951378	located_end	21930378
	estimated_end	21951378		
CH322-22H17 3L	19077275	19098275	estimated_end	19077275
	located_end	19098275		
CH322-22H20 ArmU	3984999	4005999	located_end	3984999
	estimated_end	4005999		
CH322-22H22 ArmU	5677298	5698298	estimated_end	5677298
	located_end	5698298		
CH322-22H23 X	13452649	13473649	located_end	13452649
	estimated_end	13473649		
CH322-22I04 2R	12719304	12740304	located_end	12719304
	estimated_end	12740304		
CH322-22I05 3L	255329	276329	located_end	255329
	estimated_end	276329		
CH322-22I07 3R	21678600	21699600	located_end	21678600
	estimated_end	21699600		
CH322-22I10 2L	861455	882455	estimated_end	861455
	located_end	882455		
CH322-22I11 2R	4508665	4529665	located_end	4508665
	estimated_end	4529665		
CH322-22I14 3R	21046749	21067749	estimated_end	21046749
	located_end	21067749		
CH322-22I21 3R	6845833	6866833	estimated_end	6845833
	located_end	6866833		
CH322-22J07 3L	4998446	5019446	estimated_end	4998446
	located_end	5019446		
CH322-22J15 3L	18753185	18774185	located_end	18753185
	estimated_end	18774185		
CH322-22J19 2L	21283915	21304915	located_end	21283915
	estimated_end	21304915		
CH322-22J22 X	14707997	14728997	located_end	14707997
	estimated_end	14728997		
CH322-22K01 3R	21851282	21872282	estimated_end	21851282
	located_end	21872282		
CH322-22K04 3L	4880102	4901102	located_end	4880102
	estimated_end	4901102		
CH322-22K12 2R	5110416	5131416	located_end	5110416
	estimated_end	5131416		
CH322-22K14 3R	7415675	7436675	estimated_end	7415675
	located_end	7436675		

CH322-22K20 2R	4982271	5003271	located_end	4982271
	estimated_end	5003271		
CH322-22K21 2R	9147409	9168409	located_end	9147409
	estimated_end	9168409		
CH322-22K22 X	18412713	18433713	estimated_end	18412713
	located_end	18433713		
CH322-22L02 3L	19122683	19143683	estimated_end	19122683
	located_end	19143683		
CH322-22L09 3L	24419773	24440773	estimated_end	24419773
	located_end	24440773		
CH322-22L17 3R	14377159	14398159	estimated_end	14377159
	located_end	14398159		
CH322-22L22 2L	18810328	18831328	estimated_end	18810328
	located_end	18831328		
CH322-22M01 2R	20990119	21011119	located_end	20990119
	estimated_end	21011119		
CH322-22M06 3RHet	221923	242923	located_end	221923
	estimated_end	242923		
CH322-22M13 2L	19630802	19651802	located_end	19630802
	estimated_end	19651802		
CH322-22M14 3L	24071319	24092319	located_end	24071319
	estimated_end	24092319		
CH322-22M18 2R	8550192	8571192	estimated_end	8550192
	located_end	8571192		
CH322-22M21 3R	1162130	1183130	located_end	1162130
	estimated_end	1183130		
CH322-22M23 3L	22911667	22932667	estimated_end	22911667
	located_end	22932667		
CH322-22N03 X	15376148	15397148	located_end	15376148
	estimated_end	15397148		
CH322-22N13 3L	20592932	20613932	located_end	20592932
	estimated_end	20613932		
CH322-22O05 2L	16798278	16819278	located_end	16798278
	estimated_end	16819278		
CH322-22O06 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-22O07 3R	8334723	8355723	estimated_end	8334723
	located_end	8355723		
CH322-22O10 3L	11653916	11674916	located_end	11653916
	estimated_end	11674916		
CH322-22O22 X	2033447	2054447	estimated_end	2033447
	located_end	2054447		
CH322-22P01 ArmU	5765885	5786885	estimated_end	5765885
	located_end	5786885		
CH322-22P09 2R	17681045	17702045	located_end	17681045
	estimated_end	17702045		
CH322-22P17 3L	5937377	5958377	located_end	5937377
	estimated_end	5958377		
CH322-22P20 2L	3171121	3192121	located_end	3171121
	estimated_end	3192121		
CH322-22P23 3L	17734621	17755621	located_end	17734621
	estimated_end	17755621		
CH322-22P24 X	6575809	6596809	located_end	6575809
	estimated_end	6596809		

CH322-23A01 ArmU	2986139	3007139	estimated_end	2986139
located_end	3007139			
CH322-23A08 ArmU	5689604	5710604	estimated_end	5689604
located_end	5710604			
CH322-23A15 ArmU	471022	492022	estimated_end	471022
located_end	492022			
CH322-23A18 3RHet	2204545	2225545	estimated_end	2204545
located_end	2225545			
CH322-23A24 X	10999860	11020860	estimated_end	10999860
located_end	11020860			
CH322-23B06 2R	17769838	17790838	located_end	17769838
estimated_end	17790838			
CH322-23B08 X	2287897	2308897	located_end	2287897
estimated_end	2308897			
CH322-23B11 3R	2168181	2189181	located_end	2168181
estimated_end	2189181			
CH322-23B12 X	22155043	22176043	located_end	22155043
estimated_end	22176043			
CH322-23B18 2L	4473303	4494303	estimated_end	4473303
located_end	4494303			
CH322-23B20 3L	1762789	1783789	located_end	1762789
estimated_end	1783789			
CH322-23C13 3R	15352572	15373572	located_end	15352572
estimated_end	15373572			
CH322-23C18 3L	21955740	21976740	estimated_end	21955740
located_end	21976740			
CH322-23C21 ArmU	5461303	5482303	located_end	5461303
estimated_end	5482303			
CH322-23C22 2L	858997	879997	estimated_end	858997
located_end	879997			
CH322-23C23 3L	7113259	7134259	estimated_end	7113259
located_end	7134259			
CH322-23D10 2RHet	1927642	1948642	located_end	1927642
estimated_end	1948642			
CH322-23D18 X	8333923	8354923	located_end	8333923
estimated_end	8354923			
CH322-23D23 3L	8902374	8923374	estimated_end	8902374
located_end	8923374			
CH322-23E08 2L	16773241	16794241	estimated_end	16773241
located_end	16794241			
CH322-23E10 3L	15021763	15042763	located_end	15021763
estimated_end	15042763			
CH322-23E11 X	10250593	10271593	estimated_end	10250593
located_end	10271593			
CH322-23E12 3R	25812806	25833806	located_end	25812806
estimated_end	25833806			
CH322-23E13 3R	2610224	2631224	estimated_end	2610224
located_end	2631224			
CH322-23E17 X	21803583	21824583	located_end	21803583
estimated_end	21824583			
CH322-23E19 3L	22441494	22462494	located_end	22441494
estimated_end	22462494			
CH322-23E23 3LHet	2441676	2462676	estimated_end	2441676
located_end	2462676			

CH322-23F03 2R	6745151	6766151	estimated_end	6745151
	located_end	6766151		
CH322-23F09 3L	10665254	10686254	estimated_end	10665254
	located_end	10686254		
CH322-23F13 X	9471284	9492284	estimated_end	9471284
	located_end	9492284		
CH322-23F18 4	785875	806875	located_end	785875
	estimated_end	806875		
CH322-23F19 X	1939851	1960851	estimated_end	1939851
	located_end	1960851		
CH322-23F20 3R	16904965	16925965	estimated_end	16904965
	located_end	16925965		
CH322-23F21 3L	17765450	17786450	estimated_end	17765450
	located_end	17786450		
CH322-23G03 3L	6145360	6166360	located_end	6145360
	estimated_end	6166360		
CH322-23G08 2L	1497699	1518699	located_end	1497699
	estimated_end	1518699		
CH322-23G10 3L	13929032	13950032	estimated_end	13929032
	located_end	13950032		
CH322-23G11 2R	1345521	1366521	located_end	1345521
	estimated_end	1366521		
CH322-23G14 2L	66958 87958		estimated_end	66958 located_end 87958
CH322-23G17 3L	19118917	19139917	estimated_end	19118917
	located_end	19139917		
CH322-23G20 X	15067511	15088511	located_end	15067511
	estimated_end	15088511		
CH322-23G21 3L	4554425	4575425	estimated_end	4554425
	located_end	4575425		
CH322-23G23 3R	19117813	19138813	estimated_end	19117813
	located_end	19138813		
CH322-23H04 4	570369	591369	located_end	570369
	estimated_end	591369		
CH322-23H07 2L	9436272	9457272	located_end	9436272
	estimated_end	9457272		
CH322-23H08 X	6460766	6481766	estimated_end	6460766
	located_end	6481766		
CH322-23H13 2L	9428122	9449122	estimated_end	9428122
	located_end	9449122		
CH322-23H22 3L	15855857	15876857	located_end	15855857
	estimated_end	15876857		
CH322-23I04 X	2689979	2710979	estimated_end	2689979
	located_end	2710979		
CH322-23I06 2L	8484433	8505433	located_end	8484433
	estimated_end	8505433		
CH322-23I09 3R	21311647	21332647	estimated_end	21311647
	located_end	21332647		
CH322-23I12 2R	15104979	15125979	estimated_end	15104979
	located_end	15125979		
CH322-23I13 X	13907586	13928586	located_end	13907586
	estimated_end	13928586		
CH322-23I19 3R	5878016	5899016	located_end	5878016
	estimated_end	5899016		

CH322-23I20 2R	11393101	11414101	estimated_end	11393101
	located_end	11414101		
CH322-23I21 3L	14121730	14142730	estimated_end	14121730
	located_end	14142730		
CH322-23J05 3R	15633344	15654344	located_end	15633344
	estimated_end	15654344		
CH322-23J06 3L	15952288	15973288	located_end	15952288
	estimated_end	15973288		
CH322-23J08 3R	23660541	23681541	located_end	23660541
	estimated_end	23681541		
CH322-23J09 3L	8410167	8431167	located_end	8410167
	estimated_end	8431167		
CH322-23J15 2L	4925948	4946948	estimated_end	4925948
	located_end	4946948		
CH322-23K04 3R	15426982	15447982	estimated_end	15426982
	located_end	15447982		
CH322-23K09 2R	6180230	6201230	estimated_end	6180230
	located_end	6201230		
CH322-23K12 3R	22825880	22846880	located_end	22825880
	estimated_end	22846880		
CH322-23K18 2L	18170466	18191466	estimated_end	18170466
	located_end	18191466		
CH322-23K20 3L	23051637	23072637	located_end	23051637
	estimated_end	23072637		
CH322-23L02 3L	12737232	12758232	located_end	12737232
	estimated_end	12758232		
CH322-23L12 3RHet	2156349	2177349	located_end	2156349
	estimated_end	2177349		
CH322-23L14 3L	15900255	15921255	estimated_end	15900255
	located_end	15921255		
CH322-23L17 3R	3253950	3274950	located_end	3253950
	estimated_end	3274950		
CH322-23L18 3L	4369274	4390274	estimated_end	4369274
	located_end	4390274		
CH322-23L19 2L	6798496	6819496	located_end	6798496
	estimated_end	6819496		
CH322-23M02 X	3044319	3065319	estimated_end	3044319
	located_end	3065319		
CH322-23M09 X	2816517	2837517	estimated_end	2816517
	located_end	2837517		
CH322-23M10 3R	4798777	4819777	estimated_end	4798777
	located_end	4819777		
CH322-23M15 3RHet	1944723	1965723	estimated_end	1944723
	located_end	1965723		
CH322-23M16 ArmU	28530	49530	located_end	28530
	estimated_end	49530		
CH322-23M20 3L	5108298	5129298	estimated_end	5108298
	located_end	5129298		
CH322-23M22 2L	9834809	9855809	located_end	9834809
	estimated_end	9855809		
CH322-23N02 2LHet	192926	213926	estimated_end	192926
	located_end	213926		
CH322-23N03 3L	16928833	16949833	located_end	16928833
	estimated_end	16949833		

CH322-23N04 X	6068109	6089109	estimated_end	6068109
	located_end	6089109		
CH322-23N13 X	6624607	6645607	estimated_end	6624607
	located_end	6645607		
CH322-23N15 X	13050429	13071429	located_end	13050429
	estimated_end	13071429		
CH322-23N16 3R	16983043	17004043	estimated_end	16983043
	located_end	17004043		
CH322-23N20 2R	2765410	2786410	located_end	2765410
	estimated_end	2786410		
CH322-23O04 X	2216776	2237776	located_end	2216776
	estimated_end	2237776		
CH322-23O05 3L	2200800	2221800	estimated_end	2200800
	located_end	2221800		
CH322-23O10 2L	685070	706070	estimated_end	685070
	located_end	706070		
CH322-23O17 2R	12677130	12698130	located_end	12677130
	estimated_end	12698130		
CH322-23O21 2L	11050325	11071325	estimated_end	11050325
	located_end	11071325		
CH322-23P07 X	7460275	7481275	located_end	7460275
	estimated_end	7481275		
CH322-23P10 2L	19249804	19270804	estimated_end	19249804
	located_end	19270804		
CH322-23P12 3L	23173846	23194846	estimated_end	23173846
	located_end	23194846		
CH322-23P17 2L	16025710	16046710	located_end	16025710
	estimated_end	16046710		
CH322-23P18 3L	10210923	10231923	estimated_end	10210923
	located_end	10231923		
CH322-23P19 2R	157808	178808	located_end	157808
	estimated_end	178808		
CH322-24A01 3L	22534811	22555811	located_end	22534811
	estimated_end	22555811		
CH322-24A02 2R	3304472	3325472	located_end	3304472
	estimated_end	3325472		
CH322-24A09 ArmU	5633303	5654303	estimated_end	5633303
	located_end	5654303		
CH322-24A12 2L	13862148	13883148	estimated_end	13862148
	located_end	13883148		
CH322-24A13 3L	23776034	23797034	located_end	23776034
	estimated_end	23797034		
CH322-24A18 2R	20563721	20584721	estimated_end	20563721
	located_end	20584721		
CH322-24A23 3L	8525408	8546408	estimated_end	8525408
	located_end	8546408		
CH322-24B05 3L	9011675	9032675	located_end	9011675
	estimated_end	9032675		
CH322-24B09 3L	18011214	18032214	estimated_end	18011214
	located_end	18032214		
CH322-24B10 3L	9519709	9540709	estimated_end	9519709
	located_end	9540709		
CH322-24B11 3R	19313820	19334820	located_end	19313820
	estimated_end	19334820		

CH322-24B12 3R	23183306	23204306	located_end	23183306
	estimated_end	23204306		
CH322-24B16 3R	24562366	24583366	estimated_end	24562366
	located_end	24583366		
CH322-24B18 2R	3696741	3717741	located_end	3696741
	estimated_end	3717741		
CH322-24B19 2L	7859818	7880818	estimated_end	7859818
	located_end	7880818		
CH322-24B20 3L	21677633	21698633	estimated_end	21677633
	located_end	21698633		
CH322-24C05 2RHet	647748	668748	estimated_end	647748
	located_end	668748		
CH322-24C07 X	14095955	14116955	estimated_end	14095955
	located_end	14116955		
CH322-24C10 2L	15282682	15303682	located_end	15282682
	estimated_end	15303682		
CH322-24C18 2L	10576421	10597421	located_end	10576421
	estimated_end	10597421		
CH322-24D02 2L	15481124	15502124	located_end	15481124
	estimated_end	15502124		
CH322-24D13 3R	1547492	1568492	located_end	1547492
	estimated_end	1568492		
CH322-24D19 3R	21041413	21062413	located_end	21041413
	estimated_end	21062413		
CH322-24E05 X	21662378	21683378	located_end	21662378
	estimated_end	21683378		
CH322-24E07 3R	19080582	19101582	located_end	19080582
	estimated_end	19101582		
CH322-24E08 2L	9344225	9365225	located_end	9344225
	estimated_end	9365225		
CH322-24E12 3L	17418783	17439783	estimated_end	17418783
	located_end	17439783		
CH322-24E14 2R	8012779	8033779	located_end	8012779
	estimated_end	8033779		
CH322-24E23 2R	3373978	3394978	located_end	3373978
	estimated_end	3394978		
CH322-24F03 3L	2951720	2972720	located_end	2951720
	estimated_end	2972720		
CH322-24F07 3L	579012	600012	estimated_end	579012
	located_end	600012		
CH322-24F08 2R	8490543	8511543	estimated_end	8490543
	located_end	8511543		
CH322-24F10 3R	61857	82857	located_end	61857
	estimated_end	82857		
CH322-24F15 XHet	176553	197553	located_end	176553
	estimated_end	197553		
CH322-24F23 2L	18667720	18688720	located_end	18667720
	estimated_end	18688720		
CH322-24G01 2R	13663596	13684596	located_end	13663596
	estimated_end	13684596		
CH322-24G02 3R	25424431	25445431	estimated_end	25424431
	located_end	25445431		
CH322-24G07 3R	15076704	15097704	estimated_end	15076704
	located_end	15097704		

CH322-24G12 X	19168615	19189615	estimated_end	19168615
located_end	19189615			
CH322-24G15 3L	19483289	19504289	estimated_end	19483289
located_end	19504289			
CH322-24G17 3R	12484736	12505736	estimated_end	12484736
located_end	12505736			
CH322-24H05 2RHet	670392	691392	located_end	670392
estimated_end	691392			
CH322-24H06 2L	22663936	22684936	estimated_end	22663936
located_end	22684936			
CH322-24H07 2L	1805019	1826019	estimated_end	1805019
located_end	1826019			
CH322-24H10 3L	20290445	20311445	estimated_end	20290445
located_end	20311445			
CH322-24H18 3R	20041240	20062240	located_end	20041240
estimated_end	20062240			
CH322-24H20 2R	10371531	10392531	estimated_end	10371531
located_end	10392531			
CH322-24I01 3R	1392365	1413365	estimated_end	1392365
located_end	1413365			
CH322-24I04 3R	5494759	5515759	located_end	5494759
estimated_end	5515759			
CH322-24I06 2L	2694553	2715553	located_end	2694553
estimated_end	2715553			
CH322-24I10 2R	8405869	8426869	located_end	8405869
estimated_end	8426869			
CH322-24I18 X	7927105	7948105	estimated_end	7927105
located_end	7948105			
CH322-24I19 3R	6657831	6678831	estimated_end	6657831
located_end	6678831			
CH322-24I20 2L	7375975	7396975	estimated_end	7375975
located_end	7396975			
CH322-24J04 2L	1659686	1680686	located_end	1659686
estimated_end	1680686			
CH322-24J06 2L	7108615	7129615	estimated_end	7108615
located_end	7129615			
CH322-24J14 3R	24622305	24643305	estimated_end	24622305
located_end	24643305			
CH322-24J16 3L	10068475	10089475	estimated_end	10068475
located_end	10089475			
CH322-24J20 2L	6177823	6198823	estimated_end	6177823
located_end	6198823			
CH322-24J22 3R	17117375	17138375	located_end	17117375
estimated_end	17138375			
CH322-24K01 3R	22859170	22880170	estimated_end	22859170
located_end	22880170			
CH322-24K02 ArmU	9501308	9522308	located_end	9501308
estimated_end	9522308			
CH322-24K05 2L	17955041	17976041	estimated_end	17955041
located_end	17976041			
CH322-24K11 2RHet	1745452	1766452	located_end	1745452
estimated_end	1766452			
CH322-24K15 2L	9277941	9298941	estimated_end	9277941
located_end	9298941			

CH322-24K22 2L	18844585	18865585	estimated_end	18844585
	located_end	18865585		
CH322-24K23 2L	4101197	4122197	estimated_end	4101197
	located_end	4122197		
CH322-24L06 3R	6385252	6406252	located_end	6385252
	estimated_end	6406252		
CH322-24L10 X	15288191	15309191	located_end	15288191
	estimated_end	15309191		
CH322-24L18 2R	20669493	20690493	located_end	20669493
	estimated_end	20690493		
CH322-24L22 2R	18701666	18722666	estimated_end	18701666
	located_end	18722666		
CH322-24M03 3L	11941161	11962161	located_end	11941161
	estimated_end	11962161		
CH322-24M11 ArmU	1296304	1317304	estimated_end	1296304
	located_end	1317304		
CH322-24M13 2R	7842455	7863455	estimated_end	7842455
	located_end	7863455		
CH322-24M18 2R	2562932	2583932	estimated_end	2562932
	located_end	2583932		
CH322-24M22 3L	14413782	14434782	located_end	14413782
	estimated_end	14434782		
CH322-24N02 3L	1271386	1292386	estimated_end	1271386
	located_end	1292386		
CH322-24N03 2L	1476968	1497968	estimated_end	1476968
	located_end	1497968		
CH322-24N07 2L	15073752	15094752	estimated_end	15073752
	located_end	15094752		
CH322-24N14 3L	19449426	19470426	located_end	19449426
	estimated_end	19470426		
CH322-24N18 3R	19156879	19177879	estimated_end	19156879
	located_end	19177879		
CH322-24O03 3R	20485462	20506462	located_end	20485462
	estimated_end	20506462		
CH322-24O08 ArmU	9674967	9695967	estimated_end	9674967
	located_end	9695967		
CH322-24O10 X	8985027	9006027	located_end	8985027
	estimated_end	9006027		
CH322-24O15 3L	23647428	23668428	located_end	23647428
	estimated_end	23668428		
CH322-24O19 3L	14668372	14689372	located_end	14668372
	estimated_end	14689372		
CH322-24O22 X	9431857	9452857	estimated_end	9431857
	located_end	9452857		
CH322-24P02 2R	9403381	9424381	located_end	9403381
	estimated_end	9424381		
CH322-24P04 3R	21142668	21163668	estimated_end	21142668
	located_end	21163668		
CH322-24P14 2R	7595562	7616562	located_end	7595562
	estimated_end	7616562		
CH322-24P17 3L	1174022	1195022	located_end	1174022
	estimated_end	1195022		
CH322-25A09 2L	20164513	20185513	located_end	20164513
	estimated_end	20185513		

CH322-25A16 3R	25891662	25912662	estimated_end	25891662
	located_end	25912662		
CH322-25A19 2L	1789550	1810550	located_end	1789550
	estimated_end	1810550		
CH322-25B02 3R	19027870	19048870	located_end	19027870
	estimated_end	19048870		
CH322-25B06 2L	18739889	18760889	estimated_end	18739889
	located_end	18760889		
CH322-25B11 2L	8973252	8994252	located_end	8973252
	estimated_end	8994252		
CH322-25B13 3L	18086093	18107093	estimated_end	18086093
	located_end	18107093		
CH322-25B14 3R	10819914	10840914	estimated_end	10819914
	located_end	10840914		
CH322-25B17 3R	10226606	10247606	located_end	10226606
	estimated_end	10247606		
CH322-25B18 X	795559	816559	estimated_end	795559
	located_end	816559		
CH322-25B19 ArmU	220588	241588	located_end	220588
	estimated_end	241588		
CH322-25C07 2L	2288833	2309833	located_end	2288833
	estimated_end	2309833		
CH322-25C09 X	18884531	18905531	estimated_end	18884531
	located_end	18905531		
CH322-25C16 X	61303	82303	estimated_end	61303
	located_end	82303		
CH322-25C19 3L	15743574	15764574	estimated_end	15743574
	located_end	15764574		
CH322-25C22 2L	9285227	9306227	located_end	9285227
	estimated_end	9306227		
CH322-25D04 2L	2184026	2205026	estimated_end	2184026
	located_end	2205026		
CH322-25D08 X	3874267	3895267	estimated_end	3874267
	located_end	3895267		
CH322-25D19 2R	18785507	18806507	located_end	18785507
	estimated_end	18806507		
CH322-25D22 3L	7803719	7824719	located_end	7803719
	estimated_end	7824719		
CH322-25E01 3RHet	2160742	2181742	located_end	2160742
	estimated_end	2181742		
CH322-25E02 3RHet	2478574	2499574	located_end	2478574
	estimated_end	2499574		
CH322-25E08 2R	13611939	13632939	located_end	13611939
	estimated_end	13632939		
CH322-25F14 2L	18739889	18760889	estimated_end	18739889
	located_end	18760889		
CH322-25F17 X	4822460	4843460	located_end	4822460
	estimated_end	4843460		
CH322-25F24 3R	20586560	20607560	estimated_end	20586560
	located_end	20607560		
CH322-25G04 X	5176989	5197989	estimated_end	5176989
	located_end	5197989		
CH322-25G07 3L	3407850	3428850	estimated_end	3407850
	located_end	3428850		

CH322-25G09 2L	16131794	16152794	located_end	16131794
	estimated_end	16152794		
CH322-25G10 3RHet	2352739	2373739	estimated_end	2352739
	located_end	2373739		
CH322-25G17 3L	18088625	18109625	located_end	18088625
	estimated_end	18109625		
CH322-25G19 3R	24595772	24616772	estimated_end	24595772
	located_end	24616772		
CH322-25H03 2R	11331174	11352174	located_end	11331174
	estimated_end	11352174		
CH322-25H08 2R	19702096	19723096	estimated_end	19702096
	located_end	19723096		
CH322-25H15 ArmU	6275932	6296932	estimated_end	6275932
	located_end	6296932		
CH322-25H20 3LHet	997192	1018192	estimated_end	997192
	located_end	1018192		
CH322-25H21 3R	954931	975931	located_end	954931
	estimated_end	975931		
CH322-25I09 ArmU	4814752	4835752	located_end	4814752
	estimated_end	4835752		
CH322-25I11 X	4822460	4843460	located_end	4822460
	estimated_end	4843460		
CH322-25I17 2L	3937283	3958283	located_end	3937283
	estimated_end	3958283		
CH322-25I18 3R	22625115	22646115	estimated_end	22625115
	located_end	22646115		
CH322-25I19 X	10910986	10931986	located_end	10910986
	estimated_end	10931986		
CH322-25J01 3R	17495115	17516115	estimated_end	17495115
	located_end	17516115		
CH322-25J16 3R	16969292	16990292	estimated_end	16969292
	located_end	16990292		
CH322-25K01 X	19598543	19619543	located_end	19598543
	estimated_end	19619543		
CH322-25K04 2RHet	1947314	1968314	estimated_end	1947314
	located_end	1968314		
CH322-25K12 3R	16969292	16990292	estimated_end	16969292
	located_end	16990292		
CH322-25K13 3L	2348559	2369559	located_end	2348559
	estimated_end	2369559		
CH322-25K19 3R	4606787	4627787	estimated_end	4606787
	located_end	4627787		
CH322-25L08 X	16992144	17013144	located_end	16992144
	estimated_end	17013144		
CH322-25L16 X	11375598	11396598	estimated_end	11375598
	located_end	11396598		
CH322-25L18 X	12717951	12738951	located_end	12717951
	estimated_end	12738951		
CH322-25L20 3L	8760132	8781132	located_end	8760132
	estimated_end	8781132		
CH322-25L22 X	20483039	20504039	located_end	20483039
	estimated_end	20504039		
CH322-25M01 3R	9917602	9938602	estimated_end	9917602
	located_end	9938602		

CH322-25M06 3R	2229991	2250991	located_end	2229991
	estimated_end	2250991		
CH322-25M12 2R	9141701	9162701	estimated_end	9141701
	located_end	9162701		
CH322-25M13 X	10196554	10217554	estimated_end	10196554
	located_end	10217554		
CH322-25M16 2R	120023	141023	located_end	120023
	estimated_end	141023		
CH322-25M18 2L	9433932	9454932	located_end	9433932
	estimated_end	9454932		
CH322-25M19 2RHet	2809246	2830246	estimated_end	2809246
	located_end	2830246		
CH322-25N02 2L	8630168	8651168	located_end	8630168
	estimated_end	8651168		
CH322-25N03 3L	95040	116040	located_end	95040
	estimated_end	116040		
CH322-25N06 3L	7170362	7191362	located_end	7170362
	estimated_end	7191362		
CH322-25N07 2L	15994348	16015348	located_end	15994348
	estimated_end	16015348		
CH322-25N08 3R	13371274	13392274	estimated_end	13371274
	located_end	13392274		
CH322-25N18 3R	27289	48289	located_end	27289
	estimated_end	48289		
CH322-25N19 3L	14923953	14944953	located_end	14923953
	estimated_end	14944953		
CH322-25N21 2R	275258	296258	located_end	275258
	estimated_end	296258		
CH322-25O03 2R	16819641	16840641	estimated_end	16819641
	located_end	16840641		
CH322-25O05 2L	3986171	4007171	estimated_end	3986171
	located_end	4007171		
CH322-25O10 2R	8163754	8184754	located_end	8163754
	estimated_end	8184754		
CH322-25O17 X	2930037	2951037	estimated_end	2930037
	located_end	2951037		
CH322-25O19 2L	10162546	10183546	estimated_end	10162546
	located_end	10183546		
CH322-25O22 2L	12473516	12494516	located_end	12473516
	estimated_end	12494516		
CH322-25P02 X	16654884	16675884	estimated_end	16654884
	located_end	16675884		
CH322-25P04 3R	17825353	17846353	located_end	17825353
	estimated_end	17846353		
CH322-25P09 X	10198120	10219120	located_end	10198120
	estimated_end	10219120		
CH322-25P11 3R	6202302	6223302	located_end	6202302
	estimated_end	6223302		
CH322-25P12 2L	12432448	12453448	located_end	12432448
	estimated_end	12453448		
CH322-25P13 2L	9285227	9306227	located_end	9285227
	estimated_end	9306227		
CH322-25P14 3R	7268435	7289435	estimated_end	7268435
	located_end	7289435		

CH322-25P23 X	5701659	5722659	estimated_end	5701659
	located_end	5722659		
CH322-26A15 3R	3974567	3995567	located_end	3974567
	estimated_end	3995567		
CH322-26A17 X	3353694	3374694	located_end	3353694
	estimated_end	3374694		
CH322-26B02 3L	18706722	18727722	estimated_end	18706722
	located_end	18727722		
CH322-26B04 X	4120547	4141547	estimated_end	4120547
	located_end	4141547		
CH322-26B05 2R	10966761	10987761	estimated_end	10966761
	located_end	10987761		
CH322-26B07 3L	23817664	23838664	estimated_end	23817664
	located_end	23838664		
CH322-26B08 X	17930515	17951515	located_end	17930515
	estimated_end	17951515		
CH322-26B09 3L	18477396	18498396	located_end	18477396
	estimated_end	18498396		
CH322-26B10 2L	20878226	20899226	estimated_end	20878226
	located_end	20899226		
CH322-26B14 2R	479109	500109	estimated_end	479109
	located_end	500109		
CH322-26B18 3L	10657115	10678115	estimated_end	10657115
	located_end	10678115		
CH322-26B20 2L	3898133	3919133	located_end	3898133
	estimated_end	3919133		
CH322-26B22 2L	17670565	17691565	located_end	17670565
	estimated_end	17691565		
CH322-26B24 2L	20389969	20410969	located_end	20389969
	estimated_end	20410969		
CH322-26C01 X	11623335	11644335	located_end	11623335
	estimated_end	11644335		
CH322-26C02 3L	8689586	8710586	estimated_end	8689586
	located_end	8710586		
CH322-26C05 3L	12740090	12761090	located_end	12740090
	estimated_end	12761090		
CH322-26C07 3L	991181	1012181	estimated_end	991181
	located_end	1012181		
CH322-26C08 3L	4994733	5015733	estimated_end	4994733
	located_end	5015733		
CH322-26C09 2L	19706330	19727330	estimated_end	19706330
	located_end	19727330		
CH322-26C13 2L	17195814	17216814	located_end	17195814
	estimated_end	17216814		
CH322-26C14 3R	17470133	17491133	estimated_end	17470133
	located_end	17491133		
CH322-26C16 3R	14131377	14152377	located_end	14131377
	estimated_end	14152377		
CH322-26C17 2R	15803571	15824571	estimated_end	15803571
	located_end	15824571		
CH322-26C18 3R	19653423	19674423	estimated_end	19653423
	located_end	19674423		
CH322-26C20 2RHet	223116	244116	located_end	223116
	estimated_end	244116		

CH322-26C21 3R	9888397	9909397	estimated_end	9888397
	located_end	9909397		
CH322-26D02 3L	11320520	11341520	estimated_end	11320520
	located_end	11341520		
CH322-26D03 2L	10543472	10564472	estimated_end	10543472
	located_end	10564472		
CH322-26D04 3L	22480220	22501220	estimated_end	22480220
	located_end	22501220		
CH322-26D11 3R	359052	380052	estimated_end	359052
	located_end	380052		
CH322-26D12 3L	14704501	14725501	located_end	14704501
	estimated_end	14725501		
CH322-26D16 2L	16389610	16410610	estimated_end	16389610
	located_end	16410610		
CH322-26D17 2R	17668608	17689608	estimated_end	17668608
	located_end	17689608		
CH322-26D19 3R	2548420	2569420	located_end	2548420
	estimated_end	2569420		
CH322-26D22 3LHet	614619	635619	estimated_end	614619
	located_end	635619		
CH322-26D24 3R	8566242	8587242	estimated_end	8566242
	located_end	8587242		
CH322-26E01 3L	2567099	2588099	estimated_end	2567099
	located_end	2588099		
CH322-26E02 2R	8336542	8357542	estimated_end	8336542
	located_end	8357542		
CH322-26E08 3R	8345233	8366233	estimated_end	8345233
	located_end	8366233		
CH322-26E12 2L	4738251	4759251	located_end	4738251
	estimated_end	4759251		
CH322-26E20 3L	4490701	4511701	located_end	4490701
	estimated_end	4511701		
CH322-26E21 2L	12794701	12815701	estimated_end	12794701
	located_end	12815701		
CH322-26E24 3R	11581764	11602764	located_end	11581764
	estimated_end	11602764		
CH322-26F06 3L	23817664	23838664	estimated_end	23817664
	located_end	23838664		
CH322-26F09 2L	14090613	14111613	located_end	14090613
	estimated_end	14111613		
CH322-26F12 2L	2522286	2543286	located_end	2522286
	estimated_end	2543286		
CH322-26F16 2L	8374670	8395670	located_end	8374670
	estimated_end	8395670		
CH322-26F17 3L	8006191	8027191	located_end	8006191
	estimated_end	8027191		
CH322-26G05 2R	1050292	1071292	estimated_end	1050292
	located_end	1071292		
CH322-26G06 2L	17333429	17354429	estimated_end	17333429
	located_end	17354429		
CH322-26G07 3R	21820962	21841962	estimated_end	21820962
	located_end	21841962		
CH322-26G08 X	11929156	11950156	estimated_end	11929156
	located_end	11950156		

CH322-26G11 2R	14068705	14089705	estimated_end	14068705
	located_end	14089705		
CH322-26G13 X	19151870	19172870	located_end	19151870
	estimated_end	19172870		
CH322-26G16 2L	12794701	12815701	estimated_end	12794701
	located_end	12815701		
CH322-26G17 X	5993396	6014396	located_end	5993396
	estimated_end	6014396		
CH322-26G18 2R	10940888	10961888	estimated_end	10940888
	located_end	10961888		
CH322-26H01 X	14502021	14523021	estimated_end	14502021
	located_end	14523021		
CH322-26H02 3L	2347163	2368163	estimated_end	2347163
	located_end	2368163		
CH322-26H03 X	15302629	15323629	located_end	15302629
	estimated_end	15323629		
CH322-26H05 2R	19090660	19111660	estimated_end	19090660
	located_end	19111660		
CH322-26H06 3R	26288938	26309938	estimated_end	26288938
	located_end	26309938		
CH322-26H07 X	13189761	13210761	located_end	13189761
	estimated_end	13210761		
CH322-26H08 2L	10999673	11020673	located_end	10999673
	estimated_end	11020673		
CH322-26H10 2L	10125164	10146164	located_end	10125164
	estimated_end	10146164		
CH322-26H11 3R	2732503	2753503	located_end	2732503
	estimated_end	2753503		
CH322-26H12 X	4313310	4334310	estimated_end	4313310
	located_end	4334310		
CH322-26H13 3L	13213101	13234101	located_end	13213101
	estimated_end	13234101		
CH322-26H14 2R	8328922	8349922	located_end	8328922
	estimated_end	8349922		
CH322-26H15 2L	16425016	16446016	located_end	16425016
	estimated_end	16446016		
CH322-26H17 3R	10838153	10859153	located_end	10838153
	estimated_end	10859153		
CH322-26H24 2L	15869025	15890025	located_end	15869025
	estimated_end	15890025		
CH322-26I03 2RHet	570376	591376	located_end	570376
	estimated_end	591376		
CH322-26I04 3L	18924557	18945557	estimated_end	18924557
	located_end	18945557		
CH322-26I12 2L	14218668	14239668	estimated_end	14218668
	located_end	14239668		
CH322-26I17 3R	19729980	19750980	located_end	19729980
	estimated_end	19750980		
CH322-26I18 3R	19210381	19231381	estimated_end	19210381
	located_end	19231381		
CH322-26J03 3R	6744888	6765888	estimated_end	6744888
	located_end	6765888		
CH322-26J04 3L	18838450	18859450	estimated_end	18838450
	located_end	18859450		

CH322-26J05 3R	23121058	23142058	located_end	23121058
	estimated_end	23142058		
CH322-26J06 2L	14114161	14135161	estimated_end	14114161
	located_end	14135161		
CH322-26J07 3R	9253588	9274588	located_end	9253588
	estimated_end	9274588		
CH322-26J10 3L	4725429	4746429	located_end	4725429
	estimated_end	4746429		
CH322-26J12 3R	13321689	13342689	located_end	13321689
	estimated_end	13342689		
CH322-26J13 3R	16417625	16438625	located_end	16417625
	estimated_end	16438625		
CH322-26J14 3R	4460575	4481575	located_end	4460575
	estimated_end	4481575		
CH322-26J18 3R	1723717	1744717	estimated_end	1723717
	located_end	1744717		
CH322-26J21 2L	11549602	11570602	estimated_end	11549602
	located_end	11570602		
CH322-26J23 X	22053354	22074354	located_end	22053354
	estimated_end	22074354		
CH322-26J24 3R	26476482	26497482	estimated_end	26476482
	located_end	26497482		
CH322-26K01 X	5739589	5760589	located_end	5739589
	estimated_end	5760589		
CH322-26K02 3R	3567886	3588886	located_end	3567886
	estimated_end	3588886		
CH322-26K07 2L	2422640	2443640	located_end	2422640
	estimated_end	2443640		
CH322-26K12 X	18774	39774	estimated_end	18774
	located_end	39774		
CH322-26K14 3L	11174831	11195831	located_end	11174831
	estimated_end	11195831		
CH322-26K19 2L	19031105	19052105	estimated_end	19031105
	located_end	19052105		
CH322-26K23 3R	8639707	8660707	located_end	8639707
	estimated_end	8660707		
CH322-26L01 X	17052149	17073149	located_end	17052149
	estimated_end	17073149		
CH322-26L02 2R	9442418	9463418	estimated_end	9442418
	located_end	9463418		
CH322-26L04 2R	14573108	14594108	estimated_end	14573108
	located_end	14594108		
CH322-26L05 2R	20143858	20164858	located_end	20143858
	estimated_end	20164858		
CH322-26L07 3L	826442	847442	estimated_end	826442
	located_end	847442		
CH322-26L09 2L	15143155	15164155	located_end	15143155
	estimated_end	15164155		
CH322-26L12 X	8007587	8028587	estimated_end	8007587
	located_end	8028587		
CH322-26L13 3R	26741266	26762266	located_end	26741266
	estimated_end	26762266		
CH322-26L14 2R	12958916	12979916	located_end	12958916
	estimated_end	12979916		

CH322-26L20 3L	21075079	21096079	estimated_end	21075079
	located_end	21096079		
CH322-26M02 3L	3811703	3832703	estimated_end	3811703
	located_end	3832703		
CH322-26M03 3L	6463525	6484525	estimated_end	6463525
	located_end	6484525		
CH322-26M04 3L	278904	299904	estimated_end	278904
	located_end	299904		
CH322-26M05 X	93018 114018		located_end 93018	estimated_end 114018
CH322-26M06 2R	17161629	17182629	located_end	17161629
	estimated_end	17182629		
CH322-26M09 3L	14912342	14933342	located_end	14912342
	estimated_end	14933342		
CH322-26M11 3R	13372409	13393409	located_end	13372409
	estimated_end	13393409		
CH322-26M13 3LHet	254600	275600	located_end	254600
	estimated_end	275600		
CH322-26M16 2R	4833489	4854489	located_end	4833489
	estimated_end	4854489		
CH322-26M21 3L	280231	301231	located_end	280231
	estimated_end	301231		
CH322-26M22 2R	20829338	20850338	estimated_end	20829338
	located_end	20850338		
CH322-26N03 3L	2564446	2585446	located_end	2564446
	estimated_end	2585446		
CH322-26N04 3L	12966118	12987118	located_end	12966118
	estimated_end	12987118		
CH322-26N06 3L	7653860	7674860	located_end	7653860
	estimated_end	7674860		
CH322-26N08 3R	12829224	12850224	located_end	12829224
	estimated_end	12850224		
CH322-26N09 3L	4514840	4535840	located_end	4514840
	estimated_end	4535840		
CH322-26N11 3R	19058565	19079565	located_end	19058565
	estimated_end	19079565		
CH322-26N12 X	22051696	22072696	estimated_end	22051696
	located_end	22072696		
CH322-26N14 2R	17667467	17688467	located_end	17667467
	estimated_end	17688467		
CH322-26N15 ArmU	8870716	8891716	located_end	8870716
	estimated_end	8891716		
CH322-26N16 2R	13943730	13964730	located_end	13943730
	estimated_end	13964730		
CH322-26N17 2L	14167623	14188623	located_end	14167623
	estimated_end	14188623		
CH322-26N18 3R	17071575	17092575	located_end	17071575
	estimated_end	17092575		
CH322-26N21 2L	21121220	21142220	located_end	21121220
	estimated_end	21142220		
CH322-26O01 3R	3975029	3996029	estimated_end	3975029
	located_end	3996029		
CH322-26O03 3R	11759344	11780344	estimated_end	11759344
	located_end	11780344		

CH322-26005 2L	5337823	5358823	located_end	5337823
	estimated_end	5358823		
CH322-26007 3L	2443127	2464127	estimated_end	2443127
	located_end	2464127		
CH322-26008 3R	22077583	22098583	estimated_end	22077583
	located_end	22098583		
CH322-26009 2R	15824569	15845569	located_end	15824569
	estimated_end	15845569		
CH322-26010 3R	16756008	16777008	estimated_end	16756008
	located_end	16777008		
CH322-26011 3L	19361873	19382873	located_end	19361873
	estimated_end	19382873		
CH322-26012 2R	18066348	18087348	located_end	18066348
	estimated_end	18087348		
CH322-26013 3L	10871471	10892471	located_end	10871471
	estimated_end	10892471		
CH322-26015 3L	12964302	12985302	estimated_end	12964302
	located_end	12985302		
CH322-26017 2R	11238846	11259846	estimated_end	11238846
	located_end	11259846		
CH322-26019 X	12974431	12995431	estimated_end	12974431
	located_end	12995431		
CH322-26020 X	4090173	4111173	located_end	4090173
	estimated_end	4111173		
CH322-26021 3R	13658010	13679010	estimated_end	13658010
	located_end	13679010		
CH322-26022 2R	17161629	17182629	located_end	17161629
	estimated_end	17182629		
CH322-26023 2R	17161629	17182629	located_end	17161629
	estimated_end	17182629		
CH322-26P03 X	22082687	22103687	located_end	22082687
	estimated_end	22103687		
CH322-26P04 3R	22353712	22374712	located_end	22353712
	estimated_end	22374712		
CH322-26P06 3R	16984980	17005980	located_end	16984980
	estimated_end	17005980		
CH322-26P07 2R	20452978	20473978	estimated_end	20452978
	located_end	20473978		
CH322-26P08 3L	17083672	17104672	estimated_end	17083672
	located_end	17104672		
CH322-26P09 2R	9430215	9451215	estimated_end	9430215
	located_end	9451215		
CH322-26P10 2L	16019285	16040285	located_end	16019285
	estimated_end	16040285		
CH322-26P11 3R	267067	288067	estimated_end	267067
	located_end	288067		
CH322-26P12 X	20136482	20157482	located_end	20136482
	estimated_end	20157482		
CH322-26P13 4	1071539	1092539	estimated_end	1071539
	located_end	1092539		
CH322-26P14 3R	3214857	3235857	estimated_end	3214857
	located_end	3235857		
CH322-26P15 2L	5364108	5385108	located_end	5364108
	estimated_end	5385108		

CH322-26P16 3R	22627283	22648283	located_end	22627283
	estimated_end	22648283		
CH322-26P17 3L	11399314	11420314	estimated_end	11399314
	located_end	11420314		
CH322-26P19 2R	4253746	4274746	located_end	4253746
	estimated_end	4274746		
CH322-26P20 3R	8899989	8920989	located_end	8899989
	estimated_end	8920989		
CH322-26P21 3R	27554932	27575932	located_end	27554932
	estimated_end	27575932		
CH322-26P22 2L	20512588	20533588	estimated_end	20512588
	located_end	20533588		
CH322-26P24 3L	20681202	20702202	located_end	20681202
	estimated_end	20702202		
CH322-27A02 3L	14241018	14262018	located_end	14241018
	estimated_end	14262018		
CH322-27A11 3L	16575179	16596179	located_end	16575179
	estimated_end	16596179		
CH322-27A16 2L	14708043	14729043	located_end	14708043
	estimated_end	14729043		
CH322-27A19 3R	7370447	7391447	located_end	7370447
	estimated_end	7391447		
CH322-27A20 X	596926	617926	located_end	596926
	estimated_end	617926		
CH322-27B15 2R	18782600	18803600	estimated_end	18782600
	located_end	18803600		
CH322-27C02 3L	7277694	7298694	estimated_end	7277694
	located_end	7298694		
CH322-27C03 X	18276883	18297883	located_end	18276883
	estimated_end	18297883		
CH322-27C06 2R	1261702	1282702	estimated_end	1261702
	located_end	1282702		
CH322-27C07 3L	1360206	1381206	located_end	1360206
	estimated_end	1381206		
CH322-27C09 2L	14708048	14729048	located_end	14708048
	estimated_end	14729048		
CH322-27C10 2R	14251521	14272521	estimated_end	14251521
	located_end	14272521		
CH322-27C13 3L	22632265	22653265	located_end	22632265
	estimated_end	22653265		
CH322-27C17 2L	3761426	3782426	estimated_end	3761426
	located_end	3782426		
CH322-27C18 3L	17488832	17509832	estimated_end	17488832
	located_end	17509832		
CH322-27C20 2R	18560504	18581504	estimated_end	18560504
	located_end	18581504		
CH322-27C23 3R	5866977	5887977	located_end	5866977
	estimated_end	5887977		
CH322-27D01 X	14332507	14353507	located_end	14332507
	estimated_end	14353507		
CH322-27D04 4	1277165	1298165	located_end	1277165
	estimated_end	1298165		
CH322-27D07 2L	7276802	7297802	located_end	7276802
	estimated_end	7297802		

CH322-27D10 2L	22142339	22163339	estimated_end	22142339
	located_end	22163339		
CH322-27D17 3R	13186656	13207656	located_end	13186656
	estimated_end	13207656		
CH322-27D19 2L	15763642	15784642	estimated_end	15763642
	located_end	15784642		
CH322-27D24 2L	4004394	4025394	located_end	4004394
	estimated_end	4025394		
CH322-27E01 2R	2468463	2489463	estimated_end	2468463
	located_end	2489463		
CH322-27E06 2L	18650040	18671040	estimated_end	18650040
	located_end	18671040		
CH322-27E08 3L	16243109	16264109	estimated_end	16243109
	located_end	16264109		
CH322-27E11 3R	8454038	8475038	located_end	8454038
	estimated_end	8475038		
CH322-27E15 2L	18650103	18671103	estimated_end	18650103
	located_end	18671103		
CH322-27E19 2R	5387538	5408538	estimated_end	5387538
	located_end	5408538		
CH322-27E20 3L	5019512	5040512	located_end	5019512
	estimated_end	5040512		
CH322-27E21 2L	13065955	13086955	located_end	13065955
	estimated_end	13086955		
CH322-27F01 3L	9549353	9570353	located_end	9549353
	estimated_end	9570353		
CH322-27F02 2L	17926324	17947324	estimated_end	17926324
	located_end	17947324		
CH322-27F04 2L	4688748	4709748	located_end	4688748
	estimated_end	4709748		
CH322-27F11 2R	18438704	18459704	located_end	18438704
	estimated_end	18459704		
CH322-27F15 2L	16994261	17015261	estimated_end	16994261
	located_end	17015261		
CH322-27F17 2R	13499504	13520504	located_end	13499504
	estimated_end	13520504		
CH322-27F18 X	21872982	21893982	estimated_end	21872982
	located_end	21893982		
CH322-27G02 2R	13796714	13817714	located_end	13796714
	estimated_end	13817714		
CH322-27G04 2R	20992864	21013864	estimated_end	20992864
	located_end	21013864		
CH322-27G05 3L	19291158	19312158	located_end	19291158
	estimated_end	19312158		
CH322-27G06 3L	6662017	6683017	estimated_end	6662017
	located_end	6683017		
CH322-27G07 2L	1637025	1658025	located_end	1637025
	estimated_end	1658025		
CH322-27G08 3L	7321045	7342045	located_end	7321045
	estimated_end	7342045		
CH322-27G09 2R	4796279	4817279	estimated_end	4796279
	located_end	4817279		
CH322-27G11 X	13653293	13674293	estimated_end	13653293
	located_end	13674293		

CH322-27G12 3L	5690241	5711241	located_end	5690241
	estimated_end	5711241		
CH322-27G13 2L	13414820	13435820	estimated_end	13414820
	located_end	13435820		
CH322-27G20 2L	1748931	1769931	estimated_end	1748931
	located_end	1769931		
CH322-27G24 3R	17629384	17650384	located_end	17629384
	estimated_end	17650384		
CH322-27H02 2R	14950395	14971395	estimated_end	14950395
	located_end	14971395		
CH322-27H03 3R	27668683	27689683	estimated_end	27668683
	located_end	27689683		
CH322-27H05 2R	1521179	1542179	estimated_end	1521179
	located_end	1542179		
CH322-27H06 X	4201853	4222853	located_end	4201853
	estimated_end	4222853		
CH322-27H10 2R	18783687	18804687	located_end	18783687
	estimated_end	18804687		
CH322-27H11 2R	4304212	4325212	estimated_end	4304212
	located_end	4325212		
CH322-27H13 2L	16314465	16335465	located_end	16314465
	estimated_end	16335465		
CH322-27H14 3R	8622534	8643534	estimated_end	8622534
	located_end	8643534		
CH322-27H15 3R	24896573	24917573	estimated_end	24896573
	located_end	24917573		
CH322-27H17 3L	6042468	6063468	located_end	6042468
	estimated_end	6063468		
CH322-27I02 3R	3650376	3671376	located_end	3650376
	estimated_end	3671376		
CH322-27I04 2R	14357040	14378040	located_end	14357040
	estimated_end	14378040		
CH322-27I10 2L	19468334	19489334	located_end	19468334
	estimated_end	19489334		
CH322-27I14 3L	8904031	8925031	located_end	8904031
	estimated_end	8925031		
CH322-27I15 2R	16527660	16548660	located_end	16527660
	estimated_end	16548660		
CH322-27I16 2L	14417193	14438193	located_end	14417193
	estimated_end	14438193		
CH322-27I18 3R	19431651	19452651	estimated_end	19431651
	located_end	19452651		
CH322-27I24 3L	19291162	19312162	located_end	19291162
	estimated_end	19312162		
CH322-27J01 3R	8547591	8568591	located_end	8547591
	estimated_end	8568591		
CH322-27J03 2L	19606754	19627754	located_end	19606754
	estimated_end	19627754		
CH322-27J05 X	11010805	11031805	located_end	11010805
	estimated_end	11031805		
CH322-27J13 3L	3243866	3264866	located_end	3243866
	estimated_end	3264866		
CH322-27J16 3R	8261666	8282666	located_end	8261666
	estimated_end	8282666		

CH322-27J17 3L	7624003	7645003	estimated_end	7624003
	located_end	7645003		
CH322-27J19 3RHet	1477982	1498982	located_end	1477982
	estimated_end	1498982		
CH322-27K07 2R	15418839	15439839	estimated_end	15418839
	located_end	15439839		
CH322-27K09 3R	8064838	8085838	estimated_end	8064838
	located_end	8085838		
CH322-27K10 2R	4218938	4239938	located_end	4218938
	estimated_end	4239938		
CH322-27K11 3L	5629457	5650457	estimated_end	5629457
	located_end	5650457		
CH322-27K22 3L	13858346	13879346	located_end	13858346
	estimated_end	13879346		
CH322-27K23 3R	19005011	19026011	located_end	19005011
	estimated_end	19026011		
CH322-27L01 2L	1924566	1945566	estimated_end	1924566
	located_end	1945566		
CH322-27L02 3R	23572885	23593885	located_end	23572885
	estimated_end	23593885		
CH322-27L04 3R	14210292	14231292	estimated_end	14210292
	located_end	14231292		
CH322-27L05 3L	14618120	14639120	located_end	14618120
	estimated_end	14639120		
CH322-27L07 2L	19491509	19512509	estimated_end	19491509
	located_end	19512509		
CH322-27L10 3L	2443127	2464127	estimated_end	2443127
	located_end	2464127		
CH322-27L21 X	15241358	15262358	estimated_end	15241358
	located_end	15262358		
CH322-27M02 2R	15420215	15441215	located_end	15420215
	estimated_end	15441215		
CH322-27M06 3L	8008724	8029724	estimated_end	8008724
	located_end	8029724		
CH322-27M09 3R	7327169	7348169	located_end	7327169
	estimated_end	7348169		
CH322-27M10 4	755511	776511	estimated_end	755511
	located_end	776511		
CH322-27M13 3R	7441736	7462736	located_end	7441736
	estimated_end	7462736		
CH322-27M14 2L	3668132	3689132	located_end	3668132
	estimated_end	3689132		
CH322-27M17 2L	8327332	8348332	estimated_end	8327332
	located_end	8348332		
CH322-27M20 2R	10682347	10703347	estimated_end	10682347
	located_end	10703347		
CH322-27M23 2L	6746699	6767699	estimated_end	6746699
	located_end	6767699		
CH322-27M24 3L	20885212	20906212	estimated_end	20885212
	located_end	20906212		
CH322-27N06 3R	23211532	23232532	located_end	23211532
	estimated_end	23232532		
CH322-27N09 2R	5155211	5176211	estimated_end	5155211
	located_end	5176211		

CH322-27N10 3R	3974567	3995567	located_end	3974567
	estimated_end	3995567		
CH322-27N12 2L	17238438	17259438	estimated_end	17238438
	located_end	17259438		
CH322-27N13 3L	2137989	2158989	estimated_end	2137989
	located_end	2158989		
CH322-27N15 X	8192155	8213155	located_end	8192155
	estimated_end	8213155		
CH322-27N19 3R	1830274	1851274	estimated_end	1830274
	located_end	1851274		
CH322-27N20 2R	12384088	12405088	estimated_end	12384088
	located_end	12405088		
CH322-27N21 2R	2838957	2859957	located_end	2838957
	estimated_end	2859957		
CH322-27N24 2L	1083868	1104868	estimated_end	1083868
	located_end	1104868		
CH322-27O04 2R	15464232	15485232	located_end	15464232
	estimated_end	15485232		
CH322-27O05 3L	11493792	11514792	estimated_end	11493792
	located_end	11514792		
CH322-27O09 3R	20625858	20646858	located_end	20625858
	estimated_end	20646858		
CH322-27O13 X	19759201	19780201	located_end	19759201
	estimated_end	19780201		
CH322-27O14 2L	6745796	6766796	located_end	6745796
	estimated_end	6766796		
CH322-27O19 ArmU	6477853	6498853	located_end	6477853
	estimated_end	6498853		
CH322-27O20 2L	1152533	1173533	estimated_end	1152533
	located_end	1173533		
CH322-27O22 3R	20881017	20902017	estimated_end	20881017
	located_end	20902017		
CH322-27O24 3L	15592755	15613755	estimated_end	15592755
	located_end	15613755		
CH322-27P02 3L	2443127	2464127	estimated_end	2443127
	located_end	2464127		
CH322-27P05 3L	12740090	12761090	located_end	12740090
	estimated_end	12761090		
CH322-27P08 2L	18223803	18244803	located_end	18223803
	estimated_end	18244803		
CH322-27P09 3R	3759891	3780891	located_end	3759891
	estimated_end	3780891		
CH322-27P10 2L	5165850	5186850	located_end	5165850
	estimated_end	5186850		
CH322-27P12 3L	4730702	4751702	located_end	4730702
	estimated_end	4751702		
CH322-27P13 2L	19706330	19727330	estimated_end	19706330
	located_end	19727330		
CH322-27P16 2L	13737844	13758844	estimated_end	13737844
	located_end	13758844		
CH322-27P17 3R	7651790	7672790	located_end	7651790
	estimated_end	7672790		
CH322-27P19 2L	8595117	8616117	estimated_end	8595117
	located_end	8616117		

CH322-27P21 X	2441479	2462479	located_end	2441479
estimated_end	2462479			
CH322-27P22 3R	22806619	22827619	estimated_end	22806619
located_end	22827619			
CH322-27P23 3R	9982201	10003201	estimated_end	9982201
located_end	10003201			
CH322-28A08 X	7641572	7662572	estimated_end	7641572
located_end	7662572			
CH322-28A17 2L	22013677	22034677	estimated_end	22013677
located_end	22034677			
CH322-28B08 3R	6690489	6711489	located_end	6690489
estimated_end	6711489			
CH322-28B11 3R	17619133	17640133	located_end	17619133
estimated_end	17640133			
CH322-28C01 2R	556038	577038	estimated_end	556038
located_end	577038			
CH322-28C02 2R	8597901	8618901	estimated_end	8597901
located_end	8618901			
CH322-28C05 2L	4235453	4256453	estimated_end	4235453
located_end	4256453			
CH322-28C07 3R	4831529	4852529	estimated_end	4831529
located_end	4852529			
CH322-28C09 3L	14751522	14772522	located_end	14751522
estimated_end	14772522			
CH322-28C10 3L	22913246	22934246	located_end	22913246
estimated_end	22934246			
CH322-28C11 2L	13065571	13086571	estimated_end	13065571
located_end	13086571			
CH322-28C12 2L	13065571	13086571	estimated_end	13065571
located_end	13086571			
CH322-28C16 2L	7409500	7430500	located_end	7409500
estimated_end	7430500			
CH322-28C22 ArmU	1643291	1664291	estimated_end	1643291
located_end	1664291			
CH322-28D05 X	1160826	1181826	located_end	1160826
estimated_end	1181826			
CH322-28D07 2L	14715923	14736923	located_end	14715923
estimated_end	14736923			
CH322-28D10 3R	11722044	11743044	located_end	11722044
estimated_end	11743044			
CH322-28D11 X	20243506	20264506	located_end	20243506
estimated_end	20264506			
CH322-28D12 3L	18260733	18281733	estimated_end	18260733
located_end	18281733			
CH322-28D13 2L	18256154	18277154	located_end	18256154
estimated_end	18277154			
CH322-28D14 3R	15452342	15473342	located_end	15452342
estimated_end	15473342			
CH322-28E03 3R	20422864	20443864	estimated_end	20422864
located_end	20443864			
CH322-28E04 3R	3784720	3805720	estimated_end	3784720
located_end	3805720			
CH322-28E05 3R	27444534	27465534	located_end	27444534
estimated_end	27465534			

CH322-28E07 2L	6089892	6110892	located_end 6089892
	estimated_end	6110892	
CH322-28E08 X	19261486	19282486	located_end 19261486
	estimated_end	19282486	
CH322-28E10 2L	9175064	9196064	located_end 9175064
	estimated_end	9196064	
CH322-28E11 3R	21423822	21444822	estimated_end 21423822
	located_end	21444822	
CH322-28E13 X	14332507	14353507	located_end 14332507
	estimated_end	14353507	
CH322-28E20 2L	17041433	17062433	located_end 17041433
	estimated_end	17062433	
CH322-28F04 3L	5280745	5301745	located_end 5280745
	estimated_end	5301745	
CH322-28F05 2L	17744254	17765254	estimated_end 17744254
	located_end	17765254	
CH322-28F08 3L	22189325	22210325	located_end 22189325
	estimated_end	22210325	
CH322-28F09 3L	20439287	20460287	located_end 20439287
	estimated_end	20460287	
CH322-28F10 X	1724229	1745229	located_end 1724229
	estimated_end	1745229	
CH322-28F11 X	18291127	18312127	estimated_end 18291127
	located_end	18312127	
CH322-28F19 X	20120697	20141697	located_end 20120697
	estimated_end	20141697	
CH322-28G01 2L	1781849	1802849	located_end 1781849
	estimated_end	1802849	
CH322-28G02 X	5117094	5138094	estimated_end 5117094
	located_end	5138094	
CH322-28G05 3L	15402940	15423940	located_end 15402940
	estimated_end	15423940	
CH322-28G07 3L	6487404	6508404	located_end 6487404
	estimated_end	6508404	
CH322-28G08 X	3198177	3219177	estimated_end 3198177
	located_end	3219177	
CH322-28G10 3L	17952133	17973133	located_end 17952133
	estimated_end	17973133	
CH322-28G14 2R	9191982	9212982	estimated_end 9191982
	located_end	9212982	
CH322-28G16 3R	27265723	27286723	estimated_end 27265723
	located_end	27286723	
CH322-28H02 2L	18114940	18135940	located_end 18114940
	estimated_end	18135940	
CH322-28H09 3R	18723327	18744327	estimated_end 18723327
	located_end	18744327	
CH322-28H11 X	13554088	13575088	located_end 13554088
	estimated_end	13575088	
CH322-28H12 3L	4698013	4719013	estimated_end 4698013
	located_end	4719013	
CH322-28H13 2L	3168997	3189997	estimated_end 3168997
	located_end	3189997	
CH322-28H14 3L	22907479	22928479	estimated_end 22907479
	located_end	22928479	

CH322-28I02 3L	17691708	17712708	estimated_end	17691708
	located_end	17712708		
CH322-28I04 3L	3982537	4003537	estimated_end	3982537
	located_end	4003537		
CH322-28I06 3L	10887907	10908907	estimated_end	10887907
	located_end	10908907		
CH322-28I08 2R	12013363	12034363	estimated_end	12013363
	located_end	12034363		
CH322-28I09 2R	2494592	2515592	located_end	2494592
	estimated_end	2515592		
CH322-28I10 2L	18228810	18249810	located_end	18228810
	estimated_end	18249810		
CH322-28I11 2R	15826574	15847574	located_end	15826574
	estimated_end	15847574		
CH322-28I12 3R	21167532	21188532	located_end	21167532
	estimated_end	21188532		
CH322-28I13 3R	17005056	17026056	located_end	17005056
	estimated_end	17026056		
CH322-28I14 2L	17110473	17131473	located_end	17110473
	estimated_end	17131473		
CH322-28J03 3L	14744741	14765741	located_end	14744741
	estimated_end	14765741		
CH322-28J05 3L	4664888	4685888	located_end	4664888
	estimated_end	4685888		
CH322-28J06 2RHet	1928366	1949366	estimated_end	1928366
	located_end	1949366		
CH322-28J10 2R	15043803	15064803	located_end	15043803
	estimated_end	15064803		
CH322-28J12 2L	11657659	11678659	estimated_end	11657659
	located_end	11678659		
CH322-28J17 X	6991619	7012619	estimated_end	6991619
	located_end	7012619		
CH322-28J18 3L	11612409	11633409	estimated_end	11612409
	located_end	11633409		
CH322-28J20 2RHet	492673	513673	located_end	492673
	estimated_end	513673		
CH322-28J22 3R	15088437	15109437	located_end	15088437
	estimated_end	15109437		
CH322-28J23 3L	22913266	22934266	located_end	22913266
	estimated_end	22934266		
CH322-28J24 3R	21142761	21163761	located_end	21142761
	estimated_end	21163761		
CH322-28K01 3R	20443267	20464267	located_end	20443267
	estimated_end	20464267		
CH322-28K08 3L	5498838	5519838	located_end	5498838
	estimated_end	5519838		
CH322-28K12 3R	23269377	23290377	estimated_end	23269377
	located_end	23290377		
CH322-28K14 2L	16506021	16527021	estimated_end	16506021
	located_end	16527021		
CH322-28K17 X	17314984	17335984	located_end	17314984
	estimated_end	17335984		
CH322-28K18 3L	8962584	8983584	estimated_end	8962584
	located_end	8983584		

CH322-28K19 2L	11657435	11678435	estimated_end	11657435
	located_end	11678435		
CH322-28K22 3RHet	706756	727756	located_end	706756
	estimated_end	727756		
CH322-28L01 3L	4316551	4337551	located_end	4316551
	estimated_end	4337551		
CH322-28L04 2L	8821745	8842745	estimated_end	8821745
	located_end	8842745		
CH322-28L05 2L	10615748	10636748	estimated_end	10615748
	located_end	10636748		
CH322-28L09 3L	12294782	12315782	estimated_end	12294782
	located_end	12315782		
CH322-28L10 3R	8721031	8742031	estimated_end	8721031
	located_end	8742031		
CH322-28L12 X	5254318	5275318	located_end	5254318
	estimated_end	5275318		
CH322-28L23 2R	18926287	18947287	estimated_end	18926287
	located_end	18947287		
CH322-28M01 2R	5205683	5226683	estimated_end	5205683
	located_end	5226683		
CH322-28M02 2L	4402993	4423993	located_end	4402993
	estimated_end	4423993		
CH322-28M05 2RHet	1392477	1413477	estimated_end	1392477
	located_end	1413477		
CH322-28M09 2L	3276465	3297465	located_end	3276465
	estimated_end	3297465		
CH322-28M11 2L	3369823	3390823	located_end	3369823
	estimated_end	3390823		
CH322-28M12 2R	6176570	6197570	located_end	6176570
	estimated_end	6197570		
CH322-28M17 2R	8597545	8618545	estimated_end	8597545
	located_end	8618545		
CH322-28M19 3R	48295	69295	located_end	48295
	estimated_end	69295		
CH322-28M21 3R	2650388	2671388	located_end	2650388
	estimated_end	2671388		
CH322-28M22 3R	13880128	13901128	located_end	13880128
	estimated_end	13901128		
CH322-28N01 2R	20424798	20445798	estimated_end	20424798
	located_end	20445798		
CH322-28N02 2R	19800673	19821673	estimated_end	19800673
	located_end	19821673		
CH322-28N04 X	15775341	15796341	estimated_end	15775341
	located_end	15796341		
CH322-28N06 3R	11495046	11516046	located_end	11495046
	estimated_end	11516046		
CH322-28N07 X	2212113	2233113	located_end	2212113
	estimated_end	2233113		
CH322-28N11 2R	11494626	11515626	estimated_end	11494626
	located_end	11515626		
CH322-28N12 3L	20715465	20736465	estimated_end	20715465
	located_end	20736465		
CH322-28N14 3R	16562493	16583493	located_end	16562493
	estimated_end	16583493		

CH322-28N20 2L	9734140	9755140	located_end	9734140
	estimated_end	9755140		
CH322-28N22 2L	8082181	8103181	located_end	8082181
	estimated_end	8103181		
CH322-28N23 2L	7303386	7324386	estimated_end	7303386
	located_end	7324386		
CH322-28O02 3L	18053060	18074060	estimated_end	18053060
	located_end	18074060		
CH322-28O05 3R	11108752	11129752	estimated_end	11108752
	located_end	11129752		
CH322-28O07 3R	2341981	2362981	estimated_end	2341981
	located_end	2362981		
CH322-28O08 2R	10935786	10956786	located_end	10935786
	estimated_end	10956786		
CH322-28O10 3L	4182197	4203197	located_end	4182197
	estimated_end	4203197		
CH322-28O11 X	8299264	8320264	located_end	8299264
	estimated_end	8320264		
CH322-28O13 2L	9472295	9493295	located_end	9472295
	estimated_end	9493295		
CH322-28O14 2R	17116625	17137625	estimated_end	17116625
	located_end	17137625		
CH322-28O16 2R	2645548	2666548	located_end	2645548
	estimated_end	2666548		
CH322-28O17 3L	15610373	15631373	located_end	15610373
	estimated_end	15631373		
CH322-28O19 2R	20888240	20909240	estimated_end	20888240
	located_end	20909240		
CH322-28O20 2R	5771205	5792205	located_end	5771205
	estimated_end	5792205		
CH322-28O22 3L	12767841	12788841	located_end	12767841
	estimated_end	12788841		
CH322-28O23 2L	17533666	17554666	estimated_end	17533666
	located_end	17554666		
CH322-28P02 X	19758201	19779201	estimated_end	19758201
	located_end	19779201		
CH322-28P05 X	13456629	13477629	located_end	13456629
	estimated_end	13477629		
CH322-28P06 3L	3764902	3785902	located_end	3764902
	estimated_end	3785902		
CH322-28P07 X	21293886	21314886	estimated_end	21293886
	located_end	21314886		
CH322-28P08 2R	4428740	4449740	located_end	4428740
	estimated_end	4449740		
CH322-28P09 2L	15538454	15559454	located_end	15538454
	estimated_end	15559454		
CH322-28P10 3L	9986178	10007178	located_end	9986178
	estimated_end	10007178		
CH322-28P12 2R	15112995	15133995	located_end	15112995
	estimated_end	15133995		
CH322-28P13 2R	15143279	15164279	estimated_end	15143279
	located_end	15164279		
CH322-28P14 3L	16365094	16386094	estimated_end	16365094
	located_end	16386094		

CH322-28P15 2RHet	1877777	1898777	estimated_end	1877777
	located_end	1898777		
CH322-28P17 3R	2836176	2857176	located_end	2836176
	estimated_end	2857176		
CH322-28P18 2L	1338120	1359120	estimated_end	1338120
	located_end	1359120		
CH322-28P20 X	20467038	20488038	estimated_end	20467038
	located_end	20488038		
CH322-28P24 2R	12817567	12838567	located_end	12817567
	estimated_end	12838567		
CH322-29A13 3L	13677089	13698089	located_end	13677089
	estimated_end	13698089		
CH322-29A16 ArmU	6340643	6361643	located_end	6340643
	estimated_end	6361643		
CH322-29A17 2R	17263823	17284823	located_end	17263823
	estimated_end	17284823		
CH322-29A19 2L	5394358	5415358	estimated_end	5394358
	located_end	5415358		
CH322-29A21 2R	19617152	19638152	located_end	19617152
	estimated_end	19638152		
CH322-29A22 2R	17154386	17175386	estimated_end	17154386
	located_end	17175386		
CH322-29B04 3L	9963691	9984691	located_end	9963691
	estimated_end	9984691		
CH322-29B05 3RHet	2473273	2494273	located_end	2473273
	estimated_end	2494273		
CH322-29B07 3L	23445506	23466506	estimated_end	23445506
	located_end	23466506		
CH322-29B08 3R	8867185	8888185	estimated_end	8867185
	located_end	8888185		
CH322-29B11 2L	3400233	3421233	located_end	3400233
	estimated_end	3421233		
CH322-29B17 X	18079689	18100689	located_end	18079689
	estimated_end	18100689		
CH322-29B23 3L	9719395	9740395	estimated_end	9719395
	located_end	9740395		
CH322-29B24 2LHet	191424	212424	located_end	191424
	estimated_end	212424		
CH322-29C07 3R	24820537	24841537	estimated_end	24820537
	located_end	24841537		
CH322-29C08 X	7455959	7476959	located_end	7455959
	estimated_end	7476959		
CH322-29C11 2L	3412922	3433922	estimated_end	3412922
	located_end	3433922		
CH322-29C12 3R	6311776	6332776	located_end	6311776
	estimated_end	6332776		
CH322-29C13 2L	16146246	16167246	estimated_end	16146246
	located_end	16167246		
CH322-29C14 3R	22663500	22684500	located_end	22663500
	estimated_end	22684500		
CH322-29C17 2R	20144579	20165579	located_end	20144579
	estimated_end	20165579		
CH322-29C18 3L	98277	119277	located_end	98277
	119277		estimated_end	

CH322-29C20 X	664584	685584	estimated_end	664584
	located_end	685584		
CH322-29C23 3L	7465302	7486302	estimated_end	7465302
	located_end	7486302		
CH322-29D02 3R	6608861	6629861	estimated_end	6608861
	located_end	6629861		
CH322-29D08 3R	7112063	7133063	located_end	7112063
	estimated_end	7133063		
CH322-29D10 3L	20773184	20794184	estimated_end	20773184
	located_end	20794184		
CH322-29D11 3R	16959497	16980497	estimated_end	16959497
	located_end	16980497		
CH322-29D13 2L	10216551	10237551	located_end	10216551
	estimated_end	10237551		
CH322-29D14 2L	8593388	8614388	estimated_end	8593388
	located_end	8614388		
CH322-29D16 3R	20318160	20339160	located_end	20318160
	estimated_end	20339160		
CH322-29D21 3L	9126969	9147969	estimated_end	9126969
	located_end	9147969		
CH322-29D23 2L	18493737	18514737	located_end	18493737
	estimated_end	18514737		
CH322-29E02 2R	3370957	3391957	estimated_end	3370957
	located_end	3391957		
CH322-29E03 2R	5058781	5079781	located_end	5058781
	estimated_end	5079781		
CH322-29E06 2L	466504	487504	located_end	466504
	estimated_end	487504		
CH322-29E10 2L	9098708	9119708	estimated_end	9098708
	located_end	9119708		
CH322-29E11 2RHet	858369	879369	estimated_end	858369
	located_end	879369		
CH322-29E12 2L	13122160	13143160	estimated_end	13122160
	located_end	13143160		
CH322-29E14 3R	19229645	19250645	located_end	19229645
	estimated_end	19250645		
CH322-29E16 2R	5682060	5703060	located_end	5682060
	estimated_end	5703060		
CH322-29E17 2L	10244754	10265754	located_end	10244754
	estimated_end	10265754		
CH322-29E20 3R	11621616	11642616	located_end	11621616
	estimated_end	11642616		
CH322-29E23 3R	13942879	13963879	estimated_end	13942879
	located_end	13963879		
CH322-29F01 2L	8549927	8570927	estimated_end	8549927
	located_end	8570927		
CH322-29F04 3L	10702728	10723728	located_end	10702728
	estimated_end	10723728		
CH322-29F07 3R	17186018	17207018	estimated_end	17186018
	located_end	17207018		
CH322-29F08 3R	13061275	13082275	located_end	13061275
	estimated_end	13082275		
CH322-29F10 XHet	64048	85048	estimated_end	64048
			located_end	85048

CH322-29F12 2L	15268354	15289354	located_end	15268354
	estimated_end	15289354		
CH322-29F15 2R	4952551	4973551	located_end	4952551
	estimated_end	4973551		
CH322-29F16 3L	22271263	22292263	located_end	22271263
	estimated_end	22292263		
CH322-29F23 2R	13941552	13962552	located_end	13941552
	estimated_end	13962552		
CH322-29F24 3R	11455853	11476853	located_end	11455853
	estimated_end	11476853		
CH322-29G01 2R	20978800	20999800	located_end	20978800
	estimated_end	20999800		
CH322-29G02 2R	4400728	4421728	estimated_end	4400728
	located_end	4421728		
CH322-29G03 3L	3625508	3646508	estimated_end	3625508
	located_end	3646508		
CH322-29G04 2R	11812937	11833937	estimated_end	11812937
	located_end	11833937		
CH322-29G06 2L	7923511	7944511	estimated_end	7923511
	located_end	7944511		
CH322-29G07 3R	4643564	4664564	located_end	4643564
	estimated_end	4664564		
CH322-29G12 2L	16965245	16986245	located_end	16965245
	estimated_end	16986245		
CH322-29G14 3L	214168	235168	located_end	214168
	estimated_end	235168		
CH322-29G16 2L	17879604	17900604	estimated_end	17879604
	located_end	17900604		
CH322-29G18 2R	7764295	7785295	located_end	7764295
	estimated_end	7785295		
CH322-29H02 3L	645595	666595	located_end	645595
	estimated_end	666595		
CH322-29H03 X	5342762	5363762	located_end	5342762
	estimated_end	5363762		
CH322-29H06 3L	21449632	21470632	located_end	21449632
	estimated_end	21470632		
CH322-29H09 3R	1290420	1311420	estimated_end	1290420
	located_end	1311420		
CH322-29H12 3R	18442731	18463731	located_end	18442731
	estimated_end	18463731		
CH322-29H13 2R	9563421	9584421	located_end	9563421
	estimated_end	9584421		
CH322-29H15 X	4409372	4430372	located_end	4409372
	estimated_end	4430372		
CH322-29H18 2R	11770369	11791369	estimated_end	11770369
	located_end	11791369		
CH322-29H19 3R	27668546	27689546	estimated_end	27668546
	located_end	27689546		
CH322-29H22 ArmU	5418667	5439667	estimated_end	5418667
	located_end	5439667		
CH322-29H24 3L	18778946	18799946	estimated_end	18778946
	located_end	18799946		
CH322-29I01 3R	12893562	12914562	estimated_end	12893562
	located_end	12914562		

CH322-29I02 3R	11318683	11339683	located_end	11318683
	estimated_end	11339683		
CH322-29I04 3LHet	727570	748570	located_end	727570
	estimated_end	748570		
CH322-29I07 X	1094216	1115216	located_end	1094216
	estimated_end	1115216		
CH322-29I10 2L	1212107	1233107	estimated_end	1212107
	located_end	1233107		
CH322-29I11 2R	6071198	6092198	estimated_end	6071198
	located_end	6092198		
CH322-29I12 3L	4398041	4419041	located_end	4398041
	estimated_end	4419041		
CH322-29I15 X	1965168	1986168	located_end	1965168
	estimated_end	1986168		
CH322-29I17 3L	19361991	19382991	located_end	19361991
	estimated_end	19382991		
CH322-29I22 3R	15875473	15896473	estimated_end	15875473
	located_end	15896473		
CH322-29I24 3R	4418257	4439257	located_end	4418257
	estimated_end	4439257		
CH322-29J01 X	2999333	3020333	located_end	2999333
	estimated_end	3020333		
CH322-29J02 X	18043840	18064840	located_end	18043840
	estimated_end	18064840		
CH322-29J06 2R	11688946	11709946	estimated_end	11688946
	located_end	11709946		
CH322-29J09 3L	17851232	17872232	estimated_end	17851232
	located_end	17872232		
CH322-29J10 2L	18161415	18182415	located_end	18161415
	estimated_end	18182415		
CH322-29J15 2L	12179655	12200655	estimated_end	12179655
	located_end	12200655		
CH322-29J16 2L	12606212	12627212	located_end	12606212
	estimated_end	12627212		
CH322-29J19 2R	5799255	5820255	located_end	5799255
	estimated_end	5820255		
CH322-29K03 2R	10066158	10087158	estimated_end	10066158
	located_end	10087158		
CH322-29K07 3L	18010797	18031797	located_end	18010797
	estimated_end	18031797		
CH322-29K08 2R	7512419	7533419	located_end	7512419
	estimated_end	7533419		
CH322-29K10 3R	4168656	4189656	estimated_end	4168656
	located_end	4189656		
CH322-29K17 2L	11587034	11608034	located_end	11587034
	estimated_end	11608034		
CH322-29K19 X	18043840	18064840	located_end	18043840
	estimated_end	18064840		
CH322-29K21 X	15878075	15899075	located_end	15878075
	estimated_end	15899075		
CH322-29K23 2L	19911382	19932382	estimated_end	19911382
	located_end	19932382		
CH322-29K24 3L	19564741	19585741	located_end	19564741
	estimated_end	19585741		

CH322-29L05 2R	10965828	10986828	estimated_end	10965828
	located_end	10986828		
CH322-29L11 X	20540892	20561892	located_end	20540892
	estimated_end	20561892		
CH322-29L15 X	17538878	17559878	estimated_end	17538878
	located_end	17559878		
CH322-29L20 2R	12079282	12100282	estimated_end	12079282
	located_end	12100282		
CH322-29M04 3R	2862131	2883131	estimated_end	2862131
	located_end	2883131		
CH322-29M08 2L	12175932	12196932	estimated_end	12175932
	located_end	12196932		
CH322-29M10 3R	5019078	5040078	estimated_end	5019078
	located_end	5040078		
CH322-29M14 3R	10557434	10578434	located_end	10557434
	estimated_end	10578434		
CH322-29M15 3LHet	1342435	1363435	located_end	1342435
	estimated_end	1363435		
CH322-29M17 4	436375	457375	estimated_end	436375
	located_end	457375		
CH322-29M18 3L	1869682	1890682	estimated_end	1869682
	located_end	1890682		
CH322-29M19 2L	1041570	1062570	located_end	1041570
	estimated_end	1062570		
CH322-29M21 2R	10500522	10521522	located_end	10500522
	estimated_end	10521522		
CH322-29N02 2RHet	1337750	1358750	located_end	1337750
	estimated_end	1358750		
CH322-29N05 2L	8005704	8026704	estimated_end	8005704
	located_end	8026704		
CH322-29N08 2R	16467360	16488360	estimated_end	16467360
	located_end	16488360		
CH322-29N13 3L	21137758	21158758	estimated_end	21137758
	located_end	21158758		
CH322-29N14 2L	3375091	3396091	located_end	3375091
	estimated_end	3396091		
CH322-29N15 2L	17527849	17548849	estimated_end	17527849
	located_end	17548849		
CH322-29N17 3L	16977717	16998717	estimated_end	16977717
	located_end	16998717		
CH322-29N22 X	673205	694205	estimated_end	673205
	located_end	694205		
CH322-29O05 3R	19359921	19380921	estimated_end	19359921
	located_end	19380921		
CH322-29O07 3R	3921230	3942230	estimated_end	3921230
	located_end	3942230		
CH322-29O08 2R	14753092	14774092	located_end	14753092
	estimated_end	14774092		
CH322-29O11 2L	2083537	2104537	located_end	2083537
	estimated_end	2104537		
CH322-29O18 3R	6482180	6503180	located_end	6482180
	estimated_end	6503180		
CH322-29O19 3R	14490450	14511450	estimated_end	14490450
	located_end	14511450		

CH322-29O21 3L	4996807	5017807	located_end	4996807
	estimated_end	5017807		
CH322-29O22 2R	8650652	8671652	located_end	8650652
	estimated_end	8671652		
CH322-29P05 3L	21125374	21146374	located_end	21125374
	estimated_end	21146374		
CH322-29P10 2R	11832857	11853857	located_end	11832857
	estimated_end	11853857		
CH322-29P13 X	8768797	8789797	located_end	8768797
	estimated_end	8789797		
CH322-29P16 3R	5682026	5703026	located_end	5682026
	estimated_end	5703026		
CH322-29P18 2R	11792247	11813247	located_end	11792247
	estimated_end	11813247		
CH322-29P24 2R	13216319	13237319	estimated_end	13216319
	located_end	13237319		
CH322-30A01 3R	18123319	18144319	estimated_end	18123319
	located_end	18144319		
CH322-30A02 3LHet	1421907	1442907	estimated_end	1421907
	located_end	1442907		
CH322-30A06 3R	26449554	26470554	located_end	26449554
	estimated_end	26470554		
CH322-30A07 3R	3158103	3179103	located_end	3158103
	estimated_end	3179103		
CH322-30A09 3L	3812074	3833074	estimated_end	3812074
	located_end	3833074		
CH322-30A13 X	223051	244051	located_end	223051
	estimated_end	244051		
CH322-30A15 3R	23963522	23984522	estimated_end	23963522
	located_end	23984522		
CH322-30A17 2R	17023157	17044157	located_end	17023157
	estimated_end	17044157		
CH322-30A22 3R	8791847	8812847	estimated_end	8791847
	located_end	8812847		
CH322-30A24 3L	19613931	19634931	located_end	19613931
	estimated_end	19634931		
CH322-30B10 X	20200460	20221460	estimated_end	20200460
	located_end	20221460		
CH322-30B11 3L	8866175	8887175	located_end	8866175
	estimated_end	8887175		
CH322-30B13 2R	16099565	16120565	located_end	16099565
	estimated_end	16120565		
CH322-30B15 2L	7550447	7571447	located_end	7550447
	estimated_end	7571447		
CH322-30B17 3L	12747803	12768803	located_end	12747803
	estimated_end	12768803		
CH322-30B21 3R	17325046	17346046	located_end	17325046
	estimated_end	17346046		
CH322-30B22 X	13217037	13238037	located_end	13217037
	estimated_end	13238037		
CH322-30B24 3L	227371	248371	estimated_end	227371
	located_end	248371		
CH322-30C07 X	9232610	9253610	located_end	9232610
	estimated_end	9253610		

CH322-30C13 3R	262260	283260	estimated_end	262260
	located_end	283260		
CH322-30C17 3R	11569114	11590114	located_end	11569114
	estimated_end	11590114		
CH322-30C19 3L	2487458	2508458	located_end	2487458
	estimated_end	2508458		
CH322-30C23 X	3769933	3790933	located_end	3769933
	estimated_end	3790933		
CH322-30D05 2L	17103264	17124264	estimated_end	17103264
	located_end	17124264		
CH322-30D06 X	11523544	11544544	estimated_end	11523544
	located_end	11544544		
CH322-30D07 2R	17127015	17148015	estimated_end	17127015
	located_end	17148015		
CH322-30D11 3L	2702420	2723420	located_end	2702420
	estimated_end	2723420		
CH322-30D13 3L	5247229	5268229	estimated_end	5247229
	located_end	5268229		
CH322-30D14 2R	15354087	15375087	located_end	15354087
	estimated_end	15375087		
CH322-30D15 3RHet	1142652	1163652	estimated_end	1142652
	located_end	1163652		
CH322-30D17 2L	2583975	2604975	estimated_end	2583975
	located_end	2604975		
CH322-30D18 2L	20849739	20870739	located_end	20849739
	estimated_end	20870739		
CH322-30D19 3L	20600622	20621622	located_end	20600622
	estimated_end	20621622		
CH322-30D22 3R	8395057	8416057	estimated_end	8395057
	located_end	8416057		
CH322-30E05 3R	1934597	1955597	located_end	1934597
	estimated_end	1955597		
CH322-30E08 3L	5033444	5054444	located_end	5033444
	estimated_end	5054444		
CH322-30E09 3L	2165441	2186441	located_end	2165441
	estimated_end	2186441		
CH322-30E10 3L	10377375	10398375	located_end	10377375
	estimated_end	10398375		
CH322-30E11 X	15961283	15982283	located_end	15961283
	estimated_end	15982283		
CH322-30E12 2L	11657808	11678808	located_end	11657808
	estimated_end	11678808		
CH322-30E14 2L	9485440	9506440	estimated_end	9485440
	located_end	9506440		
CH322-30E17 3L	9146594	9167594	estimated_end	9146594
	located_end	9167594		
CH322-30E18 2L	14149351	14170351	estimated_end	14149351
	located_end	14170351		
CH322-30E23 2R	12530853	12551853	estimated_end	12530853
	located_end	12551853		
CH322-30F02 3R	26701013	26722013	located_end	26701013
	estimated_end	26722013		
CH322-30F08 2L	6624477	6645477	estimated_end	6624477
	located_end	6645477		

CH322-30F09 2L	22959866	22980866	estimated_end	22959866
	located_end	22980866		
CH322-30F10 2R	6762191	6783191	located_end	6762191
	estimated_end	6783191		
CH322-30F11 2L	7547589	7568589	estimated_end	7547589
	located_end	7568589		
CH322-30F12 2L	15328188	15349188	estimated_end	15328188
	located_end	15349188		
CH322-30F13 3R	4304967	4325967	estimated_end	4304967
	located_end	4325967		
CH322-30F14 3L	20236007	20257007	located_end	20236007
	estimated_end	20257007		
CH322-30F17 3L	16292514	16313514	located_end	16292514
	estimated_end	16313514		
CH322-30F19 2R	6953313	6974313	estimated_end	6953313
	located_end	6974313		
CH322-30F21 ArmU	5677996	5698996	estimated_end	5677996
	located_end	5698996		
CH322-30F22 3L	10878896	10899896	estimated_end	10878896
	located_end	10899896		
CH322-30G05 3R	22566238	22587238	estimated_end	22566238
	located_end	22587238		
CH322-30G06 2L	7721189	7742189	located_end	7721189
	estimated_end	7742189		
CH322-30G07 2RHet	3165594	3186594	located_end	3165594
	estimated_end	3186594		
CH322-30G08 X	9144746	9165746	located_end	9144746
	estimated_end	9165746		
CH322-30G11 2R	16947128	16968128	estimated_end	16947128
	located_end	16968128		
CH322-30G12 3R	23144736	23165736	estimated_end	23144736
	located_end	23165736		
CH322-30G14 3L	13544404	13565404	estimated_end	13544404
	located_end	13565404		
CH322-30G15 X	15760629	15781629	located_end	15760629
	estimated_end	15781629		
CH322-30G16 X	236263	257263	located_end	236263
	estimated_end	257263		
CH322-30G21 3L	3294857	3315857	estimated_end	3294857
	located_end	3315857		
CH322-30H03 3L	20661280	20682280	estimated_end	20661280
	located_end	20682280		
CH322-30H05 ArmU	519635	540635	located_end	519635
	estimated_end	540635		
CH322-30H08 3RHet	431525	452525	located_end	431525
	estimated_end	452525		
CH322-30H09 2R	17892371	17913371	estimated_end	17892371
	located_end	17913371		
CH322-30H14 3L	9080270	9101270	estimated_end	9080270
	located_end	9101270		
CH322-30H16 2R	8354099	8375099	estimated_end	8354099
	located_end	8375099		
CH322-30H17 2RHet	3174826	3195826	located_end	3174826
	estimated_end	3195826		

CH322-30H22 2R	7477204	7498204	estimated_end	7477204
	located_end	7498204		
CH322-30H23 2R	14199028	14220028	located_end	14199028
	estimated_end	14220028		
CH322-30H24 2L	18044011	18065011	located_end	18044011
	estimated_end	18065011		
CH322-30I07 3L	9112661	9133661	estimated_end	9112661
	located_end	9133661		
CH322-30I08 3L	22386871	22407871	estimated_end	22386871
	located_end	22407871		
CH322-30I09 2L	17720934	17741934	located_end	17720934
	estimated_end	17741934		
CH322-30I10 3L	20962961	20983961	located_end	20962961
	estimated_end	20983961		
CH322-30I13 2R	15895753	15916753	located_end	15895753
	estimated_end	15916753		
CH322-30I14 3R	979240	1000240	estimated_end	979240
	located_end	1000240		
CH322-30I24 3R	3296198	3317198	estimated_end	3296198
	located_end	3317198		
CH322-30J04 X	2653585	2674585	estimated_end	2653585
	located_end	2674585		
CH322-30J05 3L	18526119	18547119	estimated_end	18526119
	located_end	18547119		
CH322-30J08 3R	388590	409590	located_end	388590
	estimated_end	409590		
CH322-30J09 X	8201956	8222956	estimated_end	8201956
	located_end	8222956		
CH322-30J13 2L	17779536	17800536	located_end	17779536
	estimated_end	17800536		
CH322-30J18 X	15013741	15034741	located_end	15013741
	estimated_end	15034741		
CH322-30J20 3R	16276842	16297842	located_end	16276842
	estimated_end	16297842		
CH322-30K05 3L	11573039	11594039	estimated_end	11573039
	located_end	11594039		
CH322-30K06 2L	9216243	9237243	estimated_end	9216243
	located_end	9237243		
CH322-30K09 3L	14876143	14897143	located_end	14876143
	estimated_end	14897143		
CH322-30K15 X	7338649	7359649	estimated_end	7338649
	located_end	7359649		
CH322-30K18 2R	5350097	5371097	located_end	5350097
	estimated_end	5371097		
CH322-30K24 3L	18619032	18640032	estimated_end	18619032
	located_end	18640032		
CH322-30L03 ArmU	2196494	2217494	estimated_end	2196494
	located_end	2217494		
CH322-30L04 2L	10887729	10908729	estimated_end	10887729
	located_end	10908729		
CH322-30L05 3L	4181090	4202090	located_end	4181090
	estimated_end	4202090		
CH322-30L06 2L	3112720	3133720	located_end	3112720
	estimated_end	3133720		

CH322-30L07 3L	17317812	17338812	located_end	17317812
	estimated_end	17338812		
CH322-30L09 XHet	63079	84079	located_end	63079
	estimated_end	84079		
CH322-30L10 X	19532141	19553141	estimated_end	19532141
	located_end	19553141		
CH322-30L13 X	20745302	20766302	estimated_end	20745302
	located_end	20766302		
CH322-30L15 2L	22016859	22037859	located_end	22016859
	estimated_end	22037859		
CH322-30L18 3R	13000999	13021999	estimated_end	13000999
	located_end	13021999		
CH322-30L19 2L	515687	536687	estimated_end	515687
	located_end	536687		
CH322-30L23 2L	1290516	1311516	estimated_end	1290516
	located_end	1311516		
CH322-30L24 3R	15718599	15739599	estimated_end	15718599
	located_end	15739599		
CH322-30M04 2R	19012432	19033432	located_end	19012432
	estimated_end	19033432		
CH322-30M05 3R	3958087	3979087	located_end	3958087
	estimated_end	3979087		
CH322-30M08 2L	21072121	21093121	located_end	21072121
	estimated_end	21093121		
CH322-30M10 2R	1863930	1884930	located_end	1863930
	estimated_end	1884930		
CH322-30M14 2L	6181358	6202358	located_end	6181358
	estimated_end	6202358		
CH322-30M16 2L	15219512	15240512	estimated_end	15219512
	located_end	15240512		
CH322-30M17 3L	22231646	22252646	estimated_end	22231646
	located_end	22252646		
CH322-30M18 2R	12928629	12949629	estimated_end	12928629
	located_end	12949629		
CH322-30M24 3L	12463336	12484336	located_end	12463336
	estimated_end	12484336		
CH322-30N04 3L	20853234	20874234	estimated_end	20853234
	located_end	20874234		
CH322-30N06 X	2888003	2909003	estimated_end	2888003
	located_end	2909003		
CH322-30N07 3L	7815810	7836810	located_end	7815810
	estimated_end	7836810		
CH322-30N09 X	4530073	4551073	estimated_end	4530073
	located_end	4551073		
CH322-30N10 3R	2662248	2683248	estimated_end	2662248
	located_end	2683248		
CH322-30N12 2R	13201381	13222381	estimated_end	13201381
	located_end	13222381		
CH322-30N14 2L	3148677	3169677	located_end	3148677
	estimated_end	3169677		
CH322-30N15 3L	22189718	22210718	located_end	22189718
	estimated_end	22210718		
CH322-30N16 2L	15046425	15067425	estimated_end	15046425
	located_end	15067425		

CH322-30N19 3L	8710215	8731215	located_end	8710215
	estimated_end	8731215		
CH322-30N21 3L	8372573	8393573	estimated_end	8372573
	located_end	8393573		
CH322-30O03 3L	5033751	5054751	estimated_end	5033751
	located_end	5054751		
CH322-30O04 3L	18823250	18844250	estimated_end	18823250
	located_end	18844250		
CH322-30O07 X	17323740	17344740	estimated_end	17323740
	located_end	17344740		
CH322-30O11 2R	3080798	3101798	located_end	3080798
	estimated_end	3101798		
CH322-30O13 X	1951724	1972724	located_end	1951724
	estimated_end	1972724		
CH322-30O14 2R	16596031	16617031	located_end	16596031
	estimated_end	16617031		
CH322-30O22 3L	9042940	9063940	estimated_end	9042940
	located_end	9063940		
CH322-30P07 2R	15529238	15550238	located_end	15529238
	estimated_end	15550238		
CH322-30P11 2R	14884607	14905607	located_end	14884607
	estimated_end	14905607		
CH322-30P12 3R	705226	726226	estimated_end	705226
	located_end	726226		
CH322-30P15 3L	9942709	9963709	located_end	9942709
	estimated_end	9963709		
CH322-30P16 X	7592832	7613832	estimated_end	7592832
	located_end	7613832		
CH322-30P21 3L	20990170	21011170	located_end	20990170
	estimated_end	21011170		
CH322-31A02 ArmU	5677681	5698681	estimated_end	5677681
	located_end	5698681		
CH322-31A05 X	6633136	6654136	estimated_end	6633136
	located_end	6654136		
CH322-31A11 3L	5103038	5124038	estimated_end	5103038
	located_end	5124038		
CH322-31A13 2L	14743752	14764752	estimated_end	14743752
	located_end	14764752		
CH322-31A14 3L	409117	430117	estimated_end	409117
	located_end	430117		
CH322-31B04 2L	1447667	1468667	located_end	1447667
	estimated_end	1468667		
CH322-31B07 3L	13326493	13347493	located_end	13326493
	estimated_end	13347493		
CH322-31B10 X	1136770	1157770	estimated_end	1136770
	located_end	1157770		
CH322-31B11 2R	1501193	1522193	estimated_end	1501193
	located_end	1522193		
CH322-31B18 3R	271689	292689	located_end	271689
	estimated_end	292689		
CH322-31B19 3R	14627801	14648801	located_end	14627801
	estimated_end	14648801		
CH322-31B20 X	17558267	17579267	estimated_end	17558267
	located_end	17579267		

CH322-31C06 3L	244794	265794	estimated_end	244794
	located_end	265794		
CH322-31C07 3R	2274498	2295498	estimated_end	2274498
	located_end	2295498		
CH322-31C09 X	5476486	5497486	located_end	5476486
	estimated_end	5497486		
CH322-31C11 3R	5271839	5292839	estimated_end	5271839
	located_end	5292839		
CH322-31C15 2R	21079840	21100840	estimated_end	21079840
	located_end	21100840		
CH322-31C18 3R	1007975	1028975	estimated_end	1007975
	located_end	1028975		
CH322-31C19 3L	22138988	22159988	estimated_end	22138988
	located_end	22159988		
CH322-31C23 2R	14897954	14918954	estimated_end	14897954
	located_end	14918954		
CH322-31C24 2L	11186128	11207128	located_end	11186128
	estimated_end	11207128		
CH322-31D03 3L	10744434	10765434	estimated_end	10744434
	located_end	10765434		
CH322-31D04 3R	7561657	7582657	estimated_end	7561657
	located_end	7582657		
CH322-31D05 3R	24073366	24094366	estimated_end	24073366
	located_end	24094366		
CH322-31D09 2R	18828580	18849580	located_end	18828580
	estimated_end	18849580		
CH322-31D10 3R	8730758	8751758	located_end	8730758
	estimated_end	8751758		
CH322-31D13 3R	15366196	15387196	located_end	15366196
	estimated_end	15387196		
CH322-31D16 3L	21145569	21166569	estimated_end	21145569
	located_end	21166569		
CH322-31D19 2R	8897329	8918329	estimated_end	8897329
	located_end	8918329		
CH322-31D22 3L	8666713	8687713	located_end	8666713
	estimated_end	8687713		
CH322-31E01 3L	16874198	16895198	estimated_end	16874198
	located_end	16895198		
CH322-31E02 3R	12458893	12479893	estimated_end	12458893
	located_end	12479893		
CH322-31E05 2R	16023886	16044886	located_end	16023886
	estimated_end	16044886		
CH322-31E06 3L	3485076	3506076	located_end	3485076
	estimated_end	3506076		
CH322-31E07 3L	15738044	15759044	located_end	15738044
	estimated_end	15759044		
CH322-31E08 3L	14388509	14409509	located_end	14388509
	estimated_end	14409509		
CH322-31E09 X	381842	402842	estimated_end	381842
	located_end	402842		
CH322-31E10 3L	9885456	9906456	estimated_end	9885456
	located_end	9906456		
CH322-31E11 3R	21187427	21208427	located_end	21187427
	estimated_end	21208427		

CH322-31E12 2L	501934	522934	estimated_end	501934
	located_end	522934		
CH322-31E15 3L	8674326	8695326	estimated_end	8674326
	located_end	8695326		
CH322-31E18 2L	10176307	10197307	estimated_end	10176307
	located_end	10197307		
CH322-31E21 3R	13183802	13204802	estimated_end	13183802
	located_end	13204802		
CH322-31E24 2R	5788073	5809073	located_end	5788073
	estimated_end	5809073		
CH322-31F02 3R	3266960	3287960	located_end	3266960
	estimated_end	3287960		
CH322-31F08 2RHet	1563805	1584805	located_end	1563805
	estimated_end	1584805		
CH322-31F09 2RHet	5232	26232	estimated_end	5232
	located_end	26232	located_end	26232
CH322-31F13 3R	5448902	5469902	estimated_end	5448902
	located_end	5469902		
CH322-31F15 3L	950660	971660	located_end	950660
	estimated_end	971660		
CH322-31F17 X	16997923	17018923	located_end	16997923
	estimated_end	17018923		
CH322-31F21 ArmU	8143238	8164238	estimated_end	8143238
	located_end	8164238		
CH322-31F23 3L	19650455	19671455	estimated_end	19650455
	located_end	19671455		
CH322-31F24 X	14855384	14876384	estimated_end	14855384
	located_end	14876384		
CH322-31G02 X	21082157	21103157	estimated_end	21082157
	located_end	21103157		
CH322-31G03 2L	2514404	2535404	estimated_end	2514404
	located_end	2535404		
CH322-31G08 2L	17560027	17581027	located_end	17560027
	estimated_end	17581027		
CH322-31G09 3R	26082677	26103677	estimated_end	26082677
	located_end	26103677		
CH322-31G11 2L	21726350	21747350	estimated_end	21726350
	located_end	21747350		
CH322-31G12 X	1019318	1040318	estimated_end	1019318
	located_end	1040318		
CH322-31G14 3R	16398356	16419356	located_end	16398356
	estimated_end	16419356		
CH322-31G15 3R	21863529	21884529	located_end	21863529
	estimated_end	21884529		
CH322-31G16 2L	18357662	18378662	located_end	18357662
	estimated_end	18378662		
CH322-31G18 3L	17964710	17985710	located_end	17964710
	estimated_end	17985710		
CH322-31G19 2L	14707337	14728337	located_end	14707337
	estimated_end	14728337		
CH322-31G24 2L	11747044	11768044	located_end	11747044
	estimated_end	11768044		
CH322-31H03 X	11268942	11289942	located_end	11268942
	estimated_end	11289942		

CH322-31H05 3L	6908714	6929714	located_end	6908714
	estimated_end	6929714		
CH322-31H12 2R	10973911	10994911	estimated_end	10973911
	located_end	10994911		
CH322-31H17 2L	15903208	15924208	estimated_end	15903208
	located_end	15924208		
CH322-31H18 X	9697947	9718947	estimated_end	9697947
	located_end	9718947		
CH322-31H19 2R	6240567	6261567	estimated_end	6240567
	located_end	6261567		
CH322-31H21 3L	2094738	2115738	located_end	2094738
	estimated_end	2115738		
CH322-31H22 2R	13756581	13777581	located_end	13756581
	estimated_end	13777581		
CH322-31H23 3L	4420910	4441910	estimated_end	4420910
	located_end	4441910		
CH322-31H24 3R	25592850	25613850	estimated_end	25592850
	located_end	25613850		
CH322-31I05 2L	19839493	19860493	estimated_end	19839493
	located_end	19860493		
CH322-31I08 2R	10805626	10826626	located_end	10805626
	estimated_end	10826626		
CH322-31I09 2R	9744127	9765127	located_end	9744127
	estimated_end	9765127		
CH322-31I12 2R	6865140	6886140	estimated_end	6865140
	located_end	6886140		
CH322-31I15 ArmU	6001303	6022303	located_end	6001303
	estimated_end	6022303		
CH322-31I18 3R	361005	382005	estimated_end	361005
	located_end	382005		
CH322-31I19 2R	8077206	8098206	estimated_end	8077206
	located_end	8098206		
CH322-31I20 3L	15466789	15487789	located_end	15466789
	estimated_end	15487789		
CH322-31I22 3L	18255996	18276996	located_end	18255996
	estimated_end	18276996		
CH322-31I24 2L	6990680	7011680	estimated_end	6990680
	located_end	7011680		
CH322-31J07 2L	22262439	22283439	located_end	22262439
	estimated_end	22283439		
CH322-31J09 3L	5200798	5221798	estimated_end	5200798
	located_end	5221798		
CH322-31J10 3R	20626153	20647153	estimated_end	20626153
	located_end	20647153		
CH322-31J15 X	19486279	19507279	estimated_end	19486279
	located_end	19507279		
CH322-31J16 3L	24000675	24021675	estimated_end	24000675
	located_end	24021675		
CH322-31J17 3L	13211055	13232055	estimated_end	13211055
	located_end	13232055		
CH322-31J19 3R	9145707	9166707	estimated_end	9145707
	located_end	9166707		
CH322-31J20 X	10885144	10906144	estimated_end	10885144
	located_end	10906144		

CH322-31J21 3R	15838625	15859625	located_end	15838625
	estimated_end	15859625		
CH322-31J22 2L	11600777	11621777	estimated_end	11600777
	located_end	11621777		
CH322-31J24 3L	3485388	3506388	located_end	3485388
	estimated_end	3506388		
CH322-31K04 3L	8624985	8645985	estimated_end	8624985
	located_end	8645985		
CH322-31K06 3R	17868371	17889371	estimated_end	17868371
	located_end	17889371		
CH322-31K08 4	1288200	1309200	located_end	1288200
	estimated_end	1309200		
CH322-31K10 2R	11981472	12002472	located_end	11981472
	estimated_end	12002472		
CH322-31K11 X	15555736	15576736	located_end	15555736
	estimated_end	15576736		
CH322-31K14 2L	15528526	15549526	estimated_end	15528526
	located_end	15549526		
CH322-31K19 2R	2646079	2667079	located_end	2646079
	estimated_end	2667079		
CH322-31K20 2L	19117408	19138408	located_end	19117408
	estimated_end	19138408		
CH322-31K21 3R	22987470	23008470	located_end	22987470
	estimated_end	23008470		
CH322-31K22 2R	12093125	12114125	located_end	12093125
	estimated_end	12114125		
CH322-31K23 3R	23643574	23664574	estimated_end	23643574
	located_end	23664574		
CH322-31L01 2R	16379032	16400032	estimated_end	16379032
	located_end	16400032		
CH322-31L06 2R	9438775	9459775	estimated_end	9438775
	located_end	9459775		
CH322-31L07 2R	18756027	18777027	estimated_end	18756027
	located_end	18777027		
CH322-31L08 2L	11900553	11921553	estimated_end	11900553
	located_end	11921553		
CH322-31L11 X	10064600	10085600	estimated_end	10064600
	located_end	10085600		
CH322-31L13 3R	11702032	11723032	estimated_end	11702032
	located_end	11723032		
CH322-31L15 2R	19070827	19091827	located_end	19070827
	estimated_end	19091827		
CH322-31L16 X	18036065	18057065	located_end	18036065
	estimated_end	18057065		
CH322-31L17 2R	4928074	4949074	estimated_end	4928074
	located_end	4949074		
CH322-31L21 2L	15611224	15632224	located_end	15611224
	estimated_end	15632224		
CH322-31L24 3R	26407287	26428287	estimated_end	26407287
	located_end	26428287		
CH322-31M04 3L	16727308	16748308	estimated_end	16727308
	located_end	16748308		
CH322-31M06 3R	23670956	23691956	located_end	23670956
	estimated_end	23691956		

CH322-31M07 3L	14903339	14924339	located_end	14903339
	estimated_end	14924339		
CH322-31M08 3L	22019178	22040178	located_end	22019178
	estimated_end	22040178		
CH322-31M09 2R	3981034	4002034	located_end	3981034
	estimated_end	4002034		
CH322-31M11 2L	424234	445234	located_end	424234
	estimated_end	445234		
CH322-31M12 3R	11994263	12015263	estimated_end	11994263
	located_end	12015263		
CH322-31M13 3R	1364524	1385524	estimated_end	1364524
	located_end	1385524		
CH322-31M15 2L	5748630	5769630	estimated_end	5748630
	located_end	5769630		
CH322-31M17 3R	10022643	10043643	estimated_end	10022643
	located_end	10043643		
CH322-31M18 3L	10044116	10065116	estimated_end	10044116
	located_end	10065116		
CH322-31M24 2L	14706422	14727422	estimated_end	14706422
	located_end	14727422		
CH322-31N01 3R	24918179	24939179	estimated_end	24918179
	located_end	24939179		
CH322-31N02 2R	3242482	3263482	located_end	3242482
	estimated_end	3263482		
CH322-31N03 3R	9373969	9394969	located_end	9373969
	estimated_end	9394969		
CH322-31N04 2L	18574173	18595173	estimated_end	18574173
	located_end	18595173		
CH322-31N05 3R	843524	864524	estimated_end	843524
	located_end	864524		
CH322-31N06 4	271164	292164	estimated_end	271164
	located_end	292164		
CH322-31N07 3R	11884831	11905831	located_end	11884831
	estimated_end	11905831		
CH322-31N08 3R	15310009	15331009	located_end	15310009
	estimated_end	15331009		
CH322-31N10 3L	12937107	12958107	estimated_end	12937107
	located_end	12958107		
CH322-31N15 2L	12062255	12083255	estimated_end	12062255
	located_end	12083255		
CH322-31N19 YHet	120338	141338	located_end	120338
	estimated_end	141338		
CH322-31N24 3L	9410803	9431803	located_end	9410803
	estimated_end	9431803		
CH322-31O04 X	13169365	13190365	estimated_end	13169365
	located_end	13190365		
CH322-31O06 3R	3401181	3422181	estimated_end	3401181
	located_end	3422181		
CH322-31O07 2L	2556343	2577343	estimated_end	2556343
	located_end	2577343		
CH322-31O09 2L	13465677	13486677	estimated_end	13465677
	located_end	13486677		
CH322-31O10 X	9742762	9763762	estimated_end	9742762
	located_end	9763762		

CH322-31O14 3L	21412555	21433555	estimated_end	21412555
	located_end	21433555		
CH322-31O16 2L	10458619	10479619	located_end	10458619
	estimated_end	10479619		
CH322-31O20 3R	7870745	7891745	estimated_end	7870745
	located_end	7891745		
CH322-31O21 X	4933989	4954989	estimated_end	4933989
	located_end	4954989		
CH322-31O22 3L	18945196	18966196	located_end	18945196
	estimated_end	18966196		
CH322-31O24 2L	16061337	16082337	located_end	16061337
	estimated_end	16082337		
CH322-31P07 3R	2670340	2691340	located_end	2670340
	estimated_end	2691340		
CH322-31P10 2L	6276332	6297332	estimated_end	6276332
	located_end	6297332		
CH322-31P16 2L	14378977	14399977	estimated_end	14378977
	located_end	14399977		
CH322-31P17 3L	5283212	5304212	estimated_end	5283212
	located_end	5304212		
CH322-31P22 X	6200331	6221331	estimated_end	6200331
	located_end	6221331		
CH322-31P23 2R	13911167	13932167	located_end	13911167
	estimated_end	13932167		
CH322-32A01 X	6143779	6164779	located_end	6143779
	estimated_end	6164779		
CH322-32A02 2R	15874207	15895207	located_end	15874207
	estimated_end	15895207		
CH322-32A03 2R	10371531	10392531	estimated_end	10371531
	located_end	10392531		
CH322-32A04 ArmU	336456	357456	estimated_end	336456
	located_end	357456		
CH322-32A06 2L	13099364	13120364	estimated_end	13099364
	located_end	13120364		
CH322-32A08 3R	22703274	22724274	located_end	22703274
	estimated_end	22724274		
CH322-32A09 4	526389	547389	estimated_end	526389
	located_end	547389		
CH322-32A11 3R	27870030	27891030	located_end	27870030
	estimated_end	27891030		
CH322-32A12 3R	11336754	11357754	located_end	11336754
	estimated_end	11357754		
CH322-32A13 3L	7630100	7651100	estimated_end	7630100
	located_end	7651100		
CH322-32A14 2L	1090673	1111673	located_end	1090673
	estimated_end	1111673		
CH322-32A15 2R	8868207	8889207	estimated_end	8868207
	located_end	8889207		
CH322-32A16 2L	16046150	16067150	located_end	16046150
	estimated_end	16067150		
CH322-32A17 2L	1531780	1552780	estimated_end	1531780
	located_end	1552780		
CH322-32A18 X	9425625	9446625	estimated_end	9425625
	located_end	9446625		

CH322-32A19 X	692572	713572	located_end	692572
	estimated_end	713572		
CH322-32A20 3L	984466	1005466	estimated_end	984466
	located_end	1005466		
CH322-32A22 3L	4325010	4346010	estimated_end	4325010
	located_end	4346010		
CH322-32A23 2L	6983493	7004493	estimated_end	6983493
	located_end	7004493		
CH322-32B01 2R	20777832	20798832	located_end	20777832
	estimated_end	20798832		
CH322-32B02 2R	10907137	10928137	estimated_end	10907137
	located_end	10928137		
CH322-32B03 3R	764984	785984	estimated_end	764984
	located_end	785984		
CH322-32B05 2R	7307366	7328366	located_end	7307366
	estimated_end	7328366		
CH322-32B07 2L	19464858	19485858	estimated_end	19464858
	located_end	19485858		
CH322-32B08 3R	9214056	9235056	located_end	9214056
	estimated_end	9235056		
CH322-32B09 3L	14108154	14129154	estimated_end	14108154
	located_end	14129154		
CH322-32B10 3R	946571	967571	estimated_end	946571
	located_end	967571		
CH322-32B11 3L	2926706	2947706	estimated_end	2926706
	located_end	2947706		
CH322-32B12 3R	5411244	5432244	located_end	5411244
	estimated_end	5432244		
CH322-32B13 3L	4723097	4744097	located_end	4723097
	estimated_end	4744097		
CH322-32B19 3L	7607886	7628886	located_end	7607886
	estimated_end	7628886		
CH322-32B20 2R	18885364	18906364	estimated_end	18885364
	located_end	18906364		
CH322-32B21 X	16067227	16088227	located_end	16067227
	estimated_end	16088227		
CH322-32B22 3L	16188400	16209400	estimated_end	16188400
	located_end	16209400		
CH322-32B23 3R	27153559	27174559	estimated_end	27153559
	located_end	27174559		
CH322-32B24 2L	20591370	20612370	located_end	20591370
	estimated_end	20612370		
CH322-32C01 X	14479985	14500985	estimated_end	14479985
	located_end	14500985		
CH322-32C02 2R	17434004	17455004	located_end	17434004
	estimated_end	17455004		
CH322-32C03 X	4424645	4445645	estimated_end	4424645
	located_end	4445645		
CH322-32C06 2R	4841239	4862239	located_end	4841239
	estimated_end	4862239		
CH322-32C07 3L	6660936	6681936	located_end	6660936
	estimated_end	6681936		
CH322-32C09 3L	11745978	11766978	estimated_end	11745978
	located_end	11766978		

CH322-32C15 3R	20781108	20802108	located_end 20781108
estimated_end	20802108		
CH322-32C20 2L	4825229	4846229	estimated_end 4825229
located_end	4846229		
CH322-32C24 3R	4024082	4045082	located_end 4024082
estimated_end	4045082		
CH322-32D03 3R	11524155	11545155	estimated_end 11524155
located_end	11545155		
CH322-32D05 2R	9657979	9678979	located_end 9657979
estimated_end	9678979		
CH322-32D09 3R	24847171	24868171	located_end 24847171
estimated_end	24868171		
CH322-32D12 2L	3865920	3886920	located_end 3865920
estimated_end	3886920		
CH322-32D13 2L	13350909	13371909	located_end 13350909
estimated_end	13371909		
CH322-32D14 2L	22836630	22857630	located_end 22836630
estimated_end	22857630		
CH322-32D16 2L	19790566	19811566	located_end 19790566
estimated_end	19811566		
CH322-32D18 X	18152587	18173587	estimated_end 18152587
located_end	18173587		
CH322-32D21 3R	22185551	22206551	located_end 22185551
estimated_end	22206551		
CH322-32D22 3R	16125104	16146104	located_end 16125104
estimated_end	16146104		
CH322-32D23 3R	19533582	19554582	located_end 19533582
estimated_end	19554582		
CH322-32D24 X	7137461	7158461	estimated_end 7137461
located_end	7158461		
CH322-32E03 X	11754169	11775169	estimated_end 11754169
located_end	11775169		
CH322-32E05 2R	18983324	19004324	located_end 18983324
estimated_end	19004324		
CH322-32E09 3R	10363390	10384390	estimated_end 10363390
located_end	10384390		
CH322-32E12 2R	18738263	18759263	located_end 18738263
estimated_end	18759263		
CH322-32E17 2L	462296	483296	located_end 462296
estimated_end	483296		
CH322-32E20 2L	3355476	3376476	located_end 3355476
estimated_end	3376476		
CH322-32E23 2L	9141786	9162786	estimated_end 9141786
located_end	9162786		
CH322-32E24 4	413200	434200	located_end 413200
estimated_end	434200		
CH322-32F02 2R	18030688	18051688	estimated_end 18030688
located_end	18051688		
CH322-32F03 2L	2859343	2880343	located_end 2859343
estimated_end	2880343		
CH322-32F05 X	10435225	10456225	located_end 10435225
estimated_end	10456225		
CH322-32F10 2L	5782765	5803765	located_end 5782765
estimated_end	5803765		

CH322-32F12 ArmU	914265	935265	located_end	914265
	estimated_end	935265		
CH322-32F13 X	12586069	12607069	estimated_end	12586069
	located_end	12607069		
CH322-32F14 X	8236657	8257657	located_end	8236657
	estimated_end	8257657		
CH322-32F20 3R	5367920	5388920	estimated_end	5367920
	located_end	5388920		
CH322-32F23 2L	5405602	5426602	located_end	5405602
	estimated_end	5426602		
CH322-32F24 3R	15336543	15357543	located_end	15336543
	estimated_end	15357543		
CH322-32G01 2R	18342197	18363197	estimated_end	18342197
	located_end	18363197		
CH322-32G02 3L	9116155	9137155	located_end	9116155
	estimated_end	9137155		
CH322-32G09 2R	3891237	3912237	estimated_end	3891237
	located_end	3912237		
CH322-32G11 2R	13920252	13941252	estimated_end	13920252
	located_end	13941252		
CH322-32G12 2R	16677479	16698479	estimated_end	16677479
	located_end	16698479		
CH322-32G13 3RHet	2443813	2464813	located_end	2443813
	estimated_end	2464813		
CH322-32H01 3L	19057634	19078634	estimated_end	19057634
	located_end	19078634		
CH322-32H14 3L	19138668	19159668	estimated_end	19138668
	located_end	19159668		
CH322-32H20 X	10645380	10666380	located_end	10645380
	estimated_end	10666380		
CH322-32H22 X	6366392	6387392	located_end	6366392
	estimated_end	6387392		
CH322-32H23 3R	19862631	19883631	located_end	19862631
	estimated_end	19883631		
CH322-32H24 2L	11753119	11774119	located_end	11753119
	estimated_end	11774119		
CH322-32I02 2R	17773974	17794974	located_end	17773974
	estimated_end	17794974		
CH322-32I05 3R	8035986	8056986	located_end	8035986
	estimated_end	8056986		
CH322-32I11 2L	3771270	3792270	estimated_end	3771270
	located_end	3792270		
CH322-32I12 3L	7032508	7053508	estimated_end	7032508
	located_end	7053508		
CH322-32I18 2R	18852786	18873786	estimated_end	18852786
	located_end	18873786		
CH322-32I21 3L	4674658	4695658	located_end	4674658
	estimated_end	4695658		
CH322-32J01 X	15846638	15867638	located_end	15846638
	estimated_end	15867638		
CH322-32J04 2R	17314886	17335886	estimated_end	17314886
	located_end	17335886		
CH322-32J08 2R	14121254	14142254	estimated_end	14121254
	located_end	14142254		

CH322-32J09 X	11696807	11717807	estimated_end	11696807
	located_end	11717807		
CH322-32J13 2L	7864119	7885119	estimated_end	7864119
	located_end	7885119		
CH322-32J14 3R	25928815	25949815	estimated_end	25928815
	located_end	25949815		
CH322-32J17 3R	23574816	23595816	estimated_end	23574816
	located_end	23595816		
CH322-32J21 2R	6987113	7008113	located_end	6987113
	estimated_end	7008113		
CH322-32J22 2R	17900933	17921933	located_end	17900933
	estimated_end	17921933		
CH322-32J24 3L	693520	714520	located_end	693520
	estimated_end	714520		
CH322-32K01 2L	4235404	4256404	located_end	4235404
	estimated_end	4256404		
CH322-32K02 3L	11468508	11489508	located_end	11468508
	estimated_end	11489508		
CH322-32K04 3R	21849243	21870243	estimated_end	21849243
	located_end	21870243		
CH322-32K05 3R	27047303	27068303	located_end	27047303
	estimated_end	27068303		
CH322-32K11 2L	6575047	6596047	estimated_end	6575047
	located_end	6596047		
CH322-32K12 X	9654779	9675779	estimated_end	9654779
	located_end	9675779		
CH322-32K13 X	10687788	10708788	located_end	10687788
	estimated_end	10708788		
CH322-32K14 3R	21681387	21702387	estimated_end	21681387
	located_end	21702387		
CH322-32K16 X	21406796	21427796	located_end	21406796
	estimated_end	21427796		
CH322-32K17 3R	7308956	7329956	estimated_end	7308956
	located_end	7329956		
CH322-32K21 2L	8098851	8119851	located_end	8098851
	estimated_end	8119851		
CH322-32K22 2L	5590067	5611067	estimated_end	5590067
	located_end	5611067		
CH322-32K23 3L	20017592	20038592	located_end	20017592
	estimated_end	20038592		
CH322-32L01 4	728898	749898	located_end	728898
	estimated_end	749898		
CH322-32L04 3R	24553619	24574619	located_end	24553619
	estimated_end	24574619		
CH322-32L09 2R	16944048	16965048	estimated_end	16944048
	located_end	16965048		
CH322-32L11 2L	12174084	12195084	estimated_end	12174084
	located_end	12195084		
CH322-32L14 2L	14023020	14044020	located_end	14023020
	estimated_end	14044020		
CH322-32L15 YHet	139618	160618	located_end	139618
	estimated_end	160618		
CH322-32L21 3R	24930581	24951581	located_end	24930581
	estimated_end	24951581		

CH322-32M01 2L	21940787	21961787	estimated_end	21940787
	located_end	21961787		
CH322-32M03 2R	20584718	20605718	estimated_end	20584718
	located_end	20605718		
CH322-32M05 3R	9731247	9752247	estimated_end	9731247
	located_end	9752247		
CH322-32M06 X	4823123	4844123	located_end	4823123
	estimated_end	4844123		
CH322-32M07 2L	3726771	3747771	located_end	3726771
	estimated_end	3747771		
CH322-32M08 X	2879787	2900787	located_end	2879787
	estimated_end	2900787		
CH322-32M10 2L	4429502	4450502	estimated_end	4429502
	located_end	4450502		
CH322-32M12 3L	14420203	14441203	estimated_end	14420203
	located_end	14441203		
CH322-32M14 3R	10906700	10927700	located_end	10906700
	estimated_end	10927700		
CH322-32M19 2L	20614929	20635929	located_end	20614929
	estimated_end	20635929		
CH322-32M21 2R	16988996	17009996	located_end	16988996
	estimated_end	17009996		
CH322-32N02 3R	19311619	19332619	estimated_end	19311619
	located_end	19332619		
CH322-32N03 3L	19395468	19416468	estimated_end	19395468
	located_end	19416468		
CH322-32N04 X	1242983	1263983	located_end	1242983
	estimated_end	1263983		
CH322-32N05 2R	9227394	9248394	estimated_end	9227394
	located_end	9248394		
CH322-32N07 2R	2669859	2690859	estimated_end	2669859
	located_end	2690859		
CH322-32N10 2R	1240348	1261348	estimated_end	1240348
	located_end	1261348		
CH322-32N16 2L	19870050	19891050	estimated_end	19870050
	located_end	19891050		
CH322-32N17 2R	143544	164544	estimated_end	143544
	located_end	164544		
CH322-32N18 3L	14899801	14920801	located_end	14899801
	estimated_end	14920801		
CH322-32N19 2L	22025625	22046625	located_end	22025625
	estimated_end	22046625		
CH322-32N20 2L	13246752	13267752	located_end	13246752
	estimated_end	13267752		
CH322-32O01 3R	7292250	7313250	located_end	7292250
	estimated_end	7313250		
CH322-32O03 3L	19033724	19054724	estimated_end	19033724
	located_end	19054724		
CH322-32O04 X	19149742	19170742	estimated_end	19149742
	located_end	19170742		
CH322-32O06 2R	8969952	8990952	located_end	8969952
	estimated_end	8990952		
CH322-32O08 X	6609078	6630078	located_end	6609078
	estimated_end	6630078		

CH322-32O10 3R	26839077	26860077	estimated_end	26839077
	located_end	26860077		
CH322-32O12 2R	19136760	19157760	estimated_end	19136760
	located_end	19157760		
CH322-32O13 2L	12175776	12196776	located_end	12175776
	estimated_end	12196776		
CH322-32O24 3L	16904794	16925794	located_end	16904794
	estimated_end	16925794		
CH322-32P02 2L	10709979	10730979	located_end	10709979
	estimated_end	10730979		
CH322-32P03 3L	19689624	19710624	located_end	19689624
	estimated_end	19710624		
CH322-32P04 3L	6059210	6080210	located_end	6059210
	estimated_end	6080210		
CH322-32P05 2R	15221736	15242736	estimated_end	15221736
	located_end	15242736		
CH322-32P06 3R	10927554	10948554	located_end	10927554
	estimated_end	10948554		
CH322-32P07 3R	23123600	23144600	located_end	23123600
	estimated_end	23144600		
CH322-32P08 2L	12166947	12187947	located_end	12166947
	estimated_end	12187947		
CH322-32P09 2R	928094	949094	estimated_end	928094
	located_end	949094		
CH322-32P11 3R	17087756	17108756	estimated_end	17087756
	located_end	17108756		
CH322-32P13 X	5959580	5980580	located_end	5959580
	estimated_end	5980580		
CH322-32P14 2L	19243450	19264450	located_end	19243450
	estimated_end	19264450		
CH322-33A14 3R	10969206	10990206	located_end	10969206
	estimated_end	10990206		
CH322-33A15 4	440213	461213	estimated_end	440213
	located_end	461213		
CH322-33A19 2R	18464138	18485138	located_end	18464138
	estimated_end	18485138		
CH322-33A24 2R	9802451	9823451	located_end	9802451
	estimated_end	9823451		
CH322-33B02 2L	21314788	21335788	located_end	21314788
	estimated_end	21335788		
CH322-33B05 X	12191843	12212843	estimated_end	12191843
	located_end	12212843		
CH322-33B08 X	17315588	17336588	estimated_end	17315588
	located_end	17336588		
CH322-33B11 X	7130042	7151042	located_end	7130042
	estimated_end	7151042		
CH322-33B15 3R	18172970	18193970	located_end	18172970
	estimated_end	18193970		
CH322-33B17 2R	17892215	17913215	located_end	17892215
	estimated_end	17913215		
CH322-33B19 3L	15812661	15833661	located_end	15812661
	estimated_end	15833661		
CH322-33B24 2R	773915	794915	estimated_end	773915
	located_end	794915		

CH322-33C01 3R	13812037	13833037	estimated_end	13812037
	located_end	13833037		
CH322-33C06 2L	1555218	1576218	located_end	1555218
	estimated_end	1576218		
CH322-33C07 X	6901342	6922342	located_end	6901342
	estimated_end	6922342		
CH322-33C09 3L	9200387	9221387	estimated_end	9200387
	located_end	9221387		
CH322-33C10 2R	15411217	15432217	located_end	15411217
	estimated_end	15432217		
CH322-33C11 3L	21639544	21660544	located_end	21639544
	estimated_end	21660544		
CH322-33C12 2L	10592448	10613448	located_end	10592448
	estimated_end	10613448		
CH322-33C13 2L	6857306	6878306	located_end	6857306
	estimated_end	6878306		
CH322-33C14 2R	186339	207339	located_end	186339
	estimated_end	207339		
CH322-33C16 3L	12707374	12728374	located_end	12707374
	estimated_end	12728374		
CH322-33C18 X	3231703	3252703	estimated_end	3231703
	located_end	3252703		
CH322-33C19 3R	5109582	5130582	located_end	5109582
	estimated_end	5130582		
CH322-33C20 3R	15693761	15714761	located_end	15693761
	estimated_end	15714761		
CH322-33C22 3L	5263056	5284056	estimated_end	5263056
	located_end	5284056		
CH322-33C24 3R	15044019	15065019	located_end	15044019
	estimated_end	15065019		
CH322-33D01 3L	19044338	19065338	located_end	19044338
	estimated_end	19065338		
CH322-33D02 3R	10762135	10783135	estimated_end	10762135
	located_end	10783135		
CH322-33D03 2R	19622375	19643375	located_end	19622375
	estimated_end	19643375		
CH322-33D05 3R	18211340	18232340	located_end	18211340
	estimated_end	18232340		
CH322-33D08 3R	4228711	4249711	estimated_end	4228711
	located_end	4249711		
CH322-33D12 2R	20205402	20226402	estimated_end	20205402
	located_end	20226402		
CH322-33D13 2L	2632564	2653564	located_end	2632564
	estimated_end	2653564		
CH322-33D16 2L	17362673	17383673	estimated_end	17362673
	located_end	17383673		
CH322-33D24 3L	913227	934227	located_end	913227
	estimated_end	934227		
CH322-33E01 3L	24264429	24285429	located_end	24264429
	estimated_end	24285429		
CH322-33E02 3L	2661215	2682215	located_end	2661215
	estimated_end	2682215		
CH322-33E03 3L	222953	243953	estimated_end	222953
	located_end	243953		

CH322-33E04 2L	3583885	3604885	located_end	3583885
	estimated_end	3604885		
CH322-33E09 2L	11527488	11548488	located_end	11527488
	estimated_end	11548488		
CH322-33E11 ArmU	8404263	8425263	located_end	8404263
	estimated_end	8425263		
CH322-33E12 2L	16109584	16130584	located_end	16109584
	estimated_end	16130584		
CH322-33E13 2L	15631508	15652508	estimated_end	15631508
	located_end	15652508		
CH322-33E15 3L	10962765	10983765	estimated_end	10962765
	located_end	10983765		
CH322-33E19 3R	22323905	22344905	located_end	22323905
	estimated_end	22344905		
CH322-33E22 3R	2593825	2614825	estimated_end	2593825
	located_end	2614825		
CH322-33E23 2L	19278732	19299732	located_end	19278732
	estimated_end	19299732		
CH322-33F01 X	14939753	14960753	estimated_end	14939753
	located_end	14960753		
CH322-33F02 2R	20677963	20698963	estimated_end	20677963
	located_end	20698963		
CH322-33F05 3R	2777457	2798457	estimated_end	2777457
	located_end	2798457		
CH322-33F06 3R	13597513	13618513	located_end	13597513
	estimated_end	13618513		
CH322-33F08 3R	26839077	26860077	estimated_end	26839077
	located_end	26860077		
CH322-33F10 2R	14227018	14248018	located_end	14227018
	estimated_end	14248018		
CH322-33F11 3L	13971316	13992316	estimated_end	13971316
	located_end	13992316		
CH322-33F12 2R	9225914	9246914	estimated_end	9225914
	located_end	9246914		
CH322-33F14 2L	16638342	16659342	estimated_end	16638342
	located_end	16659342		
CH322-33F16 3L	4676420	4697420	estimated_end	4676420
	located_end	4697420		
CH322-33F17 3L	18428446	18449446	estimated_end	18428446
	located_end	18449446		
CH322-33F18 3R	22075686	22096686	estimated_end	22075686
	located_end	22096686		
CH322-33F19 3R	9266472	9287472	estimated_end	9266472
	located_end	9287472		
CH322-33F22 3R	9333238	9354238	located_end	9333238
	estimated_end	9354238		
CH322-33F23 2L	10819228	10840228	estimated_end	10819228
	located_end	10840228		
CH322-33F24 2R	2861412	2882412	estimated_end	2861412
	located_end	2882412		
CH322-33G03 2R	871801	892801	estimated_end	871801
	located_end	892801		
CH322-33G05 4	467432	488432	estimated_end	467432
	located_end	488432		

CH322-33G07 3R	19904535	19925535	estimated_end	19904535
	located_end	19925535		
CH322-33G09 2L	7328600	7349600	located_end	7328600
	estimated_end	7349600		
CH322-33G11 2R	2439734	2460734	estimated_end	2439734
	located_end	2460734		
CH322-33G12 3R	16484731	16505731	estimated_end	16484731
	located_end	16505731		
CH322-33G14 2L	3076357	3097357	estimated_end	3076357
	located_end	3097357		
CH322-33G15 3L	17394274	17415274	estimated_end	17394274
	located_end	17415274		
CH322-33G17 3R	19882551	19903551	located_end	19882551
	estimated_end	19903551		
CH322-33G18 2R	9348336	9369336	estimated_end	9348336
	located_end	9369336		
CH322-33G19 3R	6868017	6889017	estimated_end	6868017
	located_end	6889017		
CH322-33G22 3R	8140440	8161440	located_end	8140440
	estimated_end	8161440		
CH322-33G23 3L	8199189	8220189	located_end	8199189
	estimated_end	8220189		
CH322-33G24 2L	22524728	22545728	located_end	22524728
	estimated_end	22545728		
CH322-33H01 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-33H07 3L	278161	299161	estimated_end	278161
	located_end	299161		
CH322-33H08 X	5043739	5064739	estimated_end	5043739
	located_end	5064739		
CH322-33H10 X	3870064	3891064	located_end	3870064
	estimated_end	3891064		
CH322-33H12 3R	8981219	9002219	located_end	8981219
	estimated_end	9002219		
CH322-33H13 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-33H15 2L	12041870	12062870	estimated_end	12041870
	located_end	12062870		
CH322-33H16 2L	19274131	19295131	located_end	19274131
	estimated_end	19295131		
CH322-33H17 X	22055693	22076693	located_end	22055693
	estimated_end	22076693		
CH322-33H19 3L	4757354	4778354	located_end	4757354
	estimated_end	4778354		
CH322-33H20 3L	19061912	19082912	estimated_end	19061912
	located_end	19082912		
CH322-33H21 3L	18547670	18568670	located_end	18547670
	estimated_end	18568670		
CH322-33H22 ArmU	9796220	9817220	located_end	9796220
	estimated_end	9817220		
CH322-33I01 X	4378233	4399233	located_end	4378233
	estimated_end	4399233		
CH322-33I03 2L	20510835	20531835	estimated_end	20510835
	located_end	20531835		

CH322-33I05 2L	22591052	22612052	located_end	22591052
	estimated_end	22612052		
CH322-33I07 3R	24263436	24284436	estimated_end	24263436
	located_end	24284436		
CH322-33I10 X	815465	836465	estimated_end	815465
	located_end	836465		
CH322-33I11 3L	10290172	10311172	estimated_end	10290172
	located_end	10311172		
CH322-33I13 2L	17871873	17892873	located_end	17871873
	estimated_end	17892873		
CH322-33I21 2R	13151392	13172392	located_end	13151392
	estimated_end	13172392		
CH322-33I23 3R	27776484	27797484	estimated_end	27776484
	located_end	27797484		
CH322-33I24 3L	5667060	5688060	located_end	5667060
	estimated_end	5688060		
CH322-33J02 3R	20860583	20881583	estimated_end	20860583
	located_end	20881583		
CH322-33J04 3L	3367984	3388984	estimated_end	3367984
	located_end	3388984		
CH322-33J11 2R	15353100	15374100	located_end	15353100
	estimated_end	15374100		
CH322-33J12 ArmU	6138778	6159778	estimated_end	6138778
	located_end	6159778		
CH322-33J13 3R	4437428	4458428	located_end	4437428
	estimated_end	4458428		
CH322-33J15 3R	7756925	7777925	located_end	7756925
	estimated_end	7777925		
CH322-33J17 3L	771920	792920	located_end	771920
	estimated_end	792920		
CH322-33J19 3L	18590503	18611503	located_end	18590503
	estimated_end	18611503		
CH322-33J20 3R	20709658	20730658	estimated_end	20709658
	located_end	20730658		
CH322-33J21 3R	17749550	17770550	estimated_end	17749550
	located_end	17770550		
CH322-33J23 3L	8796196	8817196	located_end	8796196
	estimated_end	8817196		
CH322-33K02 3R	7834534	7855534	estimated_end	7834534
	located_end	7855534		
CH322-33K03 2L	11690372	11711372	estimated_end	11690372
	located_end	11711372		
CH322-33K04 3L	4291065	4312065	estimated_end	4291065
	located_end	4312065		
CH322-33K05 3L	4601834	4622834	estimated_end	4601834
	located_end	4622834		
CH322-33K06 X	7175657	7196657	located_end	7175657
	estimated_end	7196657		
CH322-33K07 2R	17641708	17662708	located_end	17641708
	estimated_end	17662708		
CH322-33K08 3R	7290624	7311624	estimated_end	7290624
	located_end	7311624		
CH322-33K11 3L	18205397	18226397	estimated_end	18205397
	located_end	18226397		

CH322-33K17 2R	5983393	6004393	estimated_end	5983393
	located_end	6004393		
CH322-33K21 3R	1261711	1282711	located_end	1261711
	estimated_end	1282711		
CH322-33L03 2L	11768050	11789050	estimated_end	11768050
	located_end	11789050		
CH322-33L04 2L	1242576	1263576	estimated_end	1242576
	located_end	1263576		
CH322-33L05 3L	8594357	8615357	estimated_end	8594357
	located_end	8615357		
CH322-33L07 3R	14816200	14837200	estimated_end	14816200
	located_end	14837200		
CH322-33L09 2L	17698530	17719530	estimated_end	17698530
	located_end	17719530		
CH322-33L10 2R	11390975	11411975	estimated_end	11390975
	located_end	11411975		
CH322-33L14 2L	1361851	1382851	located_end	1361851
	estimated_end	1382851		
CH322-33L17 X	6862292	6883292	located_end	6862292
	estimated_end	6883292		
CH322-33L21 3R	27465123	27486123	estimated_end	27465123
	located_end	27486123		
CH322-33M03 2R	6438785	6459785	located_end	6438785
	estimated_end	6459785		
CH322-33M05 2L	5368308	5389308	estimated_end	5368308
	located_end	5389308		
CH322-33M06 2R	15416045	15437045	located_end	15416045
	estimated_end	15437045		
CH322-33M07 X	7402466	7423466	estimated_end	7402466
	located_end	7423466		
CH322-33M09 2R	17077851	17098851	estimated_end	17077851
	located_end	17098851		
CH322-33M10 2R	545604	566604	estimated_end	545604
	located_end	566604		
CH322-33M13 2R	15937446	15958446	located_end	15937446
	estimated_end	15958446		
CH322-33M14 3L	2746423	2767423	estimated_end	2746423
	located_end	2767423		
CH322-33M15 ArmU	100669	121669	estimated_end	100669
	located_end	121669		
CH322-33M16 3R	27001501	27022501	estimated_end	27001501
	located_end	27022501		
CH322-33M17 2R	4102864	4123864	located_end	4102864
	estimated_end	4123864		
CH322-33M21 X	3339773	3360773	located_end	3339773
	estimated_end	3360773		
CH322-33M23 3R	26650971	26671971	estimated_end	26650971
	located_end	26671971		
CH322-33N02 3RHet	651956	672956	estimated_end	651956
	located_end	672956		
CH322-33N03 X	20394167	20415167	estimated_end	20394167
	located_end	20415167		
CH322-33N07 2R	670174	691174	estimated_end	670174
	located_end	691174		

CH322-33N15 2R	17718645	17739645	estimated_end	17718645
	located_end	17739645		
CH322-33N18 2L	19403281	19424281	estimated_end	19403281
	located_end	19424281		
CH322-33N20 3R	138501	159501	located_end	138501
	estimated_end	159501		
CH322-33N21 ArmU	1991681	2012681	estimated_end	1991681
	located_end	2012681		
CH322-33N23 2L	4423944	4444944	estimated_end	4423944
	located_end	4444944		
CH322-33N24 2L	880871	901871	located_end	880871
	estimated_end	901871		
CH322-33O02 2L	19761939	19782939	located_end	19761939
	estimated_end	19782939		
CH322-33O04 2L	3377107	3398107	estimated_end	3377107
	located_end	3398107		
CH322-33O05 X	19618033	19639033	estimated_end	19618033
	located_end	19639033		
CH322-33O06 3L	8899102	8920102	estimated_end	8899102
	located_end	8920102		
CH322-33O07 X	12983332	13004332	located_end	12983332
	estimated_end	13004332		
CH322-33O08 2R	7650198	7671198	estimated_end	7650198
	located_end	7671198		
CH322-33O09 3R	5236455	5257455	estimated_end	5236455
	located_end	5257455		
CH322-33O11 2R	7692440	7713440	estimated_end	7692440
	located_end	7713440		
CH322-33O12 2R	9835539	9856539	estimated_end	9835539
	located_end	9856539		
CH322-33O13 3R	16011546	16032546	estimated_end	16011546
	located_end	16032546		
CH322-33O19 3R	737511	758511	estimated_end	737511
	located_end	758511		
CH322-33O20 2L	18131174	18152174	located_end	18131174
	estimated_end	18152174		
CH322-33O21 X	16014116	16035116	estimated_end	16014116
	located_end	16035116		
CH322-33O24 3L	11729915	11750915	estimated_end	11729915
	located_end	11750915		
CH322-33P02 3R	23771518	23792518	estimated_end	23771518
	located_end	23792518		
CH322-33P03 X	16559338	16580338	estimated_end	16559338
	located_end	16580338		
CH322-33P05 3L	13901869	13922869	located_end	13901869
	estimated_end	13922869		
CH322-33P06 2R	12319613	12340613	estimated_end	12319613
	located_end	12340613		
CH322-33P08 2L	6311424	6332424	estimated_end	6311424
	located_end	6332424		
CH322-33P11 3RHet	2474193	2495193	located_end	2474193
	estimated_end	2495193		
CH322-33P12 2L	6305478	6326478	estimated_end	6305478
	located_end	6326478		

CH322-33P13 X	9573725	9594725	estimated_end	9573725
	located_end	9594725		
CH322-33P14 3L	21804648	21825648	located_end	21804648
	estimated_end	21825648		
CH322-33P15 3L	21874574	21895574	located_end	21874574
	estimated_end	21895574		
CH322-33P16 3L	15088833	15109833	located_end	15088833
	estimated_end	15109833		
CH322-33P21 2L	5295518	5316518	estimated_end	5295518
	located_end	5316518		
CH322-33P23 2RHet	198560	219560	located_end	198560
	estimated_end	219560		
CH322-33P24 3L	16981643	17002643	estimated_end	16981643
	located_end	17002643		
CH322-34A04 3R	11472223	11493223	estimated_end	11472223
	located_end	11493223		
CH322-34A09 X	3219174	3240174	located_end	3219174
	estimated_end	3240174		
CH322-34A12 X	9883081	9904081	estimated_end	9883081
	located_end	9904081		
CH322-34A19 2R	2703606	2724606	estimated_end	2703606
	located_end	2724606		
CH322-34A20 3L	9549352	9570352	located_end	9549352
	estimated_end	9570352		
CH322-34A21 2R	14317574	14338574	estimated_end	14317574
	located_end	14338574		
CH322-34A23 2R	14315548	14336548	located_end	14315548
	estimated_end	14336548		
CH322-34A24 2R	18856498	18877498	estimated_end	18856498
	located_end	18877498		
CH322-34B03 2L	19936982	19957982	estimated_end	19936982
	located_end	19957982		
CH322-34B04 3L	20529554	20550554	estimated_end	20529554
	located_end	20550554		
CH322-34B05 3R	8332528	8353528	estimated_end	8332528
	located_end	8353528		
CH322-34B11 3L	7691100	7712100	located_end	7691100
	estimated_end	7712100		
CH322-34B16 3R	6358474	6379474	estimated_end	6358474
	located_end	6379474		
CH322-34B19 2R	5154288	5175288	estimated_end	5154288
	located_end	5175288		
CH322-34B20 2L	18851250	18872250	estimated_end	18851250
	located_end	18872250		
CH322-34B21 3R	12200798	12221798	located_end	12200798
	estimated_end	12221798		
CH322-34B22 3R	2937896	2958896	estimated_end	2937896
	located_end	2958896		
CH322-34C07 3R	17263272	17284272	located_end	17263272
	estimated_end	17284272		
CH322-34C13 2L	12979287	13000287	estimated_end	12979287
	located_end	13000287		
CH322-34C16 3L	6708793	6729793	estimated_end	6708793
	located_end	6729793		

CH322-34C17 2L	2092070	2113070	located_end	2092070
estimated_end	2113070			
CH322-34C22 X	9991625	10012625	estimated_end	9991625
located_end	10012625			
CH322-34C24 2L	18533281	18554281	located_end	18533281
estimated_end	18554281			
CH322-34D19 2L	17016837	17037837	located_end	17016837
estimated_end	17037837			
CH322-34E04 3R	6893234	6914234	estimated_end	6893234
located_end	6914234			
CH322-34E11 3R	22507394	22528394	located_end	22507394
estimated_end	22528394			
CH322-34E12 X	6033883	6054883	estimated_end	6033883
located_end	6054883			
CH322-34E13 X	7098764	7119764	estimated_end	7098764
located_end	7119764			
CH322-34E14 3L	7439511	7460511	located_end	7439511
estimated_end	7460511			
CH322-34E21 3R	6906656	6927656	located_end	6906656
estimated_end	6927656			
CH322-34E22 3R	12555217	12576217	estimated_end	12555217
located_end	12576217			
CH322-34E23 3R	22135447	22156447	estimated_end	22135447
located_end	22156447			
CH322-34E24 2L	19925372	19946372	located_end	19925372
estimated_end	19946372			
CH322-34F05 3R	9451388	9472388	located_end	9451388
estimated_end	9472388			
CH322-34F07 3R	14984960	15005960	located_end	14984960
estimated_end	15005960			
CH322-34F10 X	15108964	15129964	estimated_end	15108964
located_end	15129964			
CH322-34F21 2R	16471458	16492458	located_end	16471458
estimated_end	16492458			
CH322-34F22 X	16947001	16968001	located_end	16947001
estimated_end	16968001			
CH322-34F23 2R	6477849	6498849	estimated_end	6477849
located_end	6498849			
CH322-34F24 3R	111555	132555	estimated_end	111555
located_end	132555			
CH322-34G08 2L	3027174	3048174	located_end	3027174
estimated_end	3048174			
CH322-34G19 3R	15467046	15488046	estimated_end	15467046
located_end	15488046			
CH322-34G21 3R	1815068	1836068	estimated_end	1815068
located_end	1836068			
CH322-34G22 2R	14527861	14548861	estimated_end	14527861
located_end	14548861			
CH322-34H06 2R	1721105	1742105	estimated_end	1721105
located_end	1742105			
CH322-34H07 X	12344897	12365897	estimated_end	12344897
located_end	12365897			
CH322-34H08 2L	8222064	8243064	located_end	8222064
estimated_end	8243064			

CH322-34H14 3R	22378417	22399417	located_end	22378417
	estimated_end	22399417		
CH322-34H17 3L	2615287	2636287	located_end	2615287
	estimated_end	2636287		
CH322-34H19 2L	9854117	9875117	located_end	9854117
	estimated_end	9875117		
CH322-34H20 3R	14340304	14361304	estimated_end	14340304
	located_end	14361304		
CH322-34H23 3L	21517070	21538070	estimated_end	21517070
	located_end	21538070		
CH322-34H24 2R	2404674	2425674	estimated_end	2404674
	located_end	2425674		
CH322-34I06 2R	8774723	8795723	located_end	8774723
	estimated_end	8795723		
CH322-34I07 3L	17893922	17914922	estimated_end	17893922
	located_end	17914922		
CH322-34I09 3R	15131803	15152803	located_end	15131803
	estimated_end	15152803		
CH322-34I11 2R	19865125	19886125	located_end	19865125
	estimated_end	19886125		
CH322-34I13 2R	19863702	19884702	estimated_end	19863702
	located_end	19884702		
CH322-34I14 X	6871894	6892894	estimated_end	6871894
	located_end	6892894		
CH322-34I15 2R	7478593	7499593	located_end	7478593
	estimated_end	7499593		
CH322-34I16 3R	25893482	25914482	located_end	25893482
	estimated_end	25914482		
CH322-34I17 2RHet	1695717	1716717	located_end	1695717
	estimated_end	1716717		
CH322-34I21 3L	20275553	20296553	located_end	20275553
	estimated_end	20296553		
CH322-34I22 3L	4791850	4812850	located_end	4791850
	estimated_end	4812850		
CH322-34I23 X	8409925	8430925	located_end	8409925
	estimated_end	8430925		
CH322-34I24 3L	4792982	4813982	estimated_end	4792982
	located_end	4813982		
CH322-34J03 3L	13381867	13402867	located_end	13381867
	estimated_end	13402867		
CH322-34J05 X	18154194	18175194	located_end	18154194
	estimated_end	18175194		
CH322-34J06 2R	3565518	3586518	located_end	3565518
	estimated_end	3586518		
CH322-34J07 2R	4618745	4639745	located_end	4618745
	estimated_end	4639745		
CH322-34J09 3R	15367179	15388179	located_end	15367179
	estimated_end	15388179		
CH322-34J13 2L	8521566	8542566	located_end	8521566
	estimated_end	8542566		
CH322-34J15 2L	8520460	8541460	estimated_end	8520460
	located_end	8541460		
CH322-34J16 3R	11041119	11062119	located_end	11041119
	estimated_end	11062119		

CH322-34J21 3L	6719026	6740026	located_end	6719026
	estimated_end	6740026		
CH322-34J24 3R	12009918	12030918	located_end	12009918
	estimated_end	12030918		
CH322-34K01 3R	23442106	23463106	located_end	23442106
	estimated_end	23463106		
CH322-34K04 2R	15590001	15611001	located_end	15590001
	estimated_end	15611001		
CH322-34K05 2R	1856282	1877282	estimated_end	1856282
	located_end	1877282		
CH322-34K08 2R	8423595	8444595	estimated_end	8423595
	located_end	8444595		
CH322-34K12 3RHet	1077878	1098878	estimated_end	1077878
	located_end	1098878		
CH322-34K14 2R	3122208	3143208	estimated_end	3122208
	located_end	3143208		
CH322-34K15 2R	19864281	19885281	located_end	19864281
	estimated_end	19885281		
CH322-34K21 3L	996117	1017117	estimated_end	996117
	located_end	1017117		
CH322-34K22 3R	1288056	1309056	located_end	1288056
	estimated_end	1309056		
CH322-34L02 3R	16752450	16773450	estimated_end	16752450
	located_end	16773450		
CH322-34L05 2LHet	121848	142848	located_end	121848
	estimated_end	142848		
CH322-34L16 2R	19211219	19232219	located_end	19211219
	estimated_end	19232219		
CH322-34L19 3R	2360346	2381346	located_end	2360346
	estimated_end	2381346		
CH322-34L23 3L	4539532	4560532	estimated_end	4539532
	located_end	4560532		
CH322-34L24 3R	11907266	11928266	estimated_end	11907266
	located_end	11928266		
CH322-34M03 3L	10975864	10996864	located_end	10975864
	estimated_end	10996864		
CH322-34M06 2L	20780911	20801911	estimated_end	20780911
	located_end	20801911		
CH322-34M12 3L	15124788	15145788	estimated_end	15124788
	located_end	15145788		
CH322-34M17 3R	22847221	22868221	estimated_end	22847221
	located_end	22868221		
CH322-34M18 2L	15464233	15485233	located_end	15464233
	estimated_end	15485233		
CH322-34M19 3R	22846729	22867729	located_end	22846729
	estimated_end	22867729		
CH322-34M20 2L	15463485	15484485	estimated_end	15463485
	located_end	15484485		
CH322-34M21 3L	8710682	8731682	located_end	8710682
	estimated_end	8731682		
CH322-34M23 2L	6352805	6373805	estimated_end	6352805
	located_end	6373805		
CH322-34M24 3L	16959476	16980476	estimated_end	16959476
	located_end	16980476		

CH322-34N05 3L	3786542	3807542	estimated_end	3786542
	located_end	3807542		
CH322-34N06 3R	17874032	17895032	located_end	17874032
	estimated_end	17895032		
CH322-34N09 3L	11838256	11859256	located_end	11838256
	estimated_end	11859256		
CH322-34N10 3L	2403925	2424925	estimated_end	2403925
	located_end	2424925		
CH322-34N11 2R	6267134	6288134	located_end	6267134
	estimated_end	6288134		
CH322-34N17 3L	17339454	17360454	estimated_end	17339454
	located_end	17360454		
CH322-34N21 2R	9428988	9449988	located_end	9428988
	estimated_end	9449988		
CH322-34N23 2L	6498434	6519434	located_end	6498434
	estimated_end	6519434		
CH322-34N24 3L	13270284	13291284	located_end	13270284
	estimated_end	13291284		
CH322-34O03 3R	1433195	1454195	estimated_end	1433195
	located_end	1454195		
CH322-34O04 3R	15459479	15480479	located_end	15459479
	estimated_end	15480479		
CH322-34O06 2R	1566454	1587454	located_end	1566454
	estimated_end	1587454		
CH322-34O08 X	18989812	19010812	located_end	18989812
	estimated_end	19010812		
CH322-34O12 3L	21952752	21973752	estimated_end	21952752
	located_end	21973752		
CH322-34O16 3L	6188548	6209548	estimated_end	6188548
	located_end	6209548		
CH322-34O19 2L	11773260	11794260	located_end	11773260
	estimated_end	11794260		
CH322-34O20 2R	14757794	14778794	located_end	14757794
	estimated_end	14778794		
CH322-34O24 3R	4054969	4075969	located_end	4054969
	estimated_end	4075969		
CH322-34P02 2R	17220539	17241539	located_end	17220539
	estimated_end	17241539		
CH322-34P03 2L	5638974	5659974	estimated_end	5638974
	located_end	5659974		
CH322-34P04 3R	2701724	2722724	located_end	2701724
	estimated_end	2722724		
CH322-34P05 3L	6299670	6320670	located_end	6299670
	estimated_end	6320670		
CH322-34P07 X	8629492	8650492	estimated_end	8629492
	located_end	8650492		
CH322-34P08 3R	17754055	17775055	estimated_end	17754055
	located_end	17775055		
CH322-34P10 3R	9831002	9852002	estimated_end	9831002
	located_end	9852002		
CH322-34P11 3L	8905441	8926441	estimated_end	8905441
	located_end	8926441		
CH322-34P12 ArmU	8765935	8786935	estimated_end	8765935
	located_end	8786935		

CH322-34P15 3R	9801658	9822658	estimated_end	9801658
	located_end	9822658		
CH322-34P20 2L	1917611	1938611	located_end	1917611
	estimated_end	1938611		
CH322-34P22 2L	18853151	18874151	located_end	18853151
	estimated_end	18874151		
CH322-35A01 2L	11900553	11921553	estimated_end	11900553
	located_end	11921553		
CH322-35A06 3R	6785237	6806237	estimated_end	6785237
	located_end	6806237		
CH322-35A08 2L	19827322	19848322	located_end	19827322
	estimated_end	19848322		
CH322-35A11 2R	602379	623379	located_end	602379
	estimated_end	623379		
CH322-35B07 2R	6019663	6040663	located_end	6019663
	estimated_end	6040663		
CH322-35B08 2R	5217188	5238188	estimated_end	5217188
	located_end	5238188		
CH322-35B19 3R	13719216	13740216	estimated_end	13719216
	located_end	13740216		
CH322-35B22 2L	22097890	22118890	located_end	22097890
	estimated_end	22118890		
CH322-35B23 3RHet	2481470	2502470	estimated_end	2481470
	located_end	2502470		
CH322-35C02 2R	11614060	11635060	located_end	11614060
	estimated_end	11635060		
CH322-35C05 2R	14067488	14088488	estimated_end	14067488
	located_end	14088488		
CH322-35C07 3L	8585739	8606739	located_end	8585739
	estimated_end	8606739		
CH322-35C08 3R	2865577	2886577	located_end	2865577
	estimated_end	2886577		
CH322-35C09 3LHet	1528808	1549808	estimated_end	1528808
	located_end	1549808		
CH322-35C12 3R	24467436	24488436	estimated_end	24467436
	located_end	24488436		
CH322-35C13 2R	19526898	19547898	located_end	19526898
	estimated_end	19547898		
CH322-35C24 ArmU	7503111	7524111	located_end	7503111
	estimated_end	7524111		
CH322-35D02 2R	3200341	3221341	located_end	3200341
	estimated_end	3221341		
CH322-35D04 X	18750618	18771618	estimated_end	18750618
	located_end	18771618		
CH322-35D05 2R	16784969	16805969	located_end	16784969
	estimated_end	16805969		
CH322-35E03 3R	13381605	13402605	located_end	13381605
	estimated_end	13402605		
CH322-35E04 2L	18188206	18209206	estimated_end	18188206
	located_end	18209206		
CH322-35E07 3LHet	202677	223677	estimated_end	202677
	located_end	223677		
CH322-35E09 3L	21678227	21699227	estimated_end	21678227
	located_end	21699227		

CH322-35E11 2L	18477164	18498164	estimated_end	18477164
	located_end	18498164		
CH322-35F01 3R	20643838	20664838	located_end	20643838
	estimated_end	20664838		
CH322-35F06 2R	8597901	8618901	estimated_end	8597901
	located_end	8618901		
CH322-35F09 2L	1189778	1210778	estimated_end	1189778
	located_end	1210778		
CH322-35F12 3L	6932733	6953733	estimated_end	6932733
	located_end	6953733		
CH322-35F15 3R	21375300	21396300	estimated_end	21375300
	located_end	21396300		
CH322-35F16 3L	8315665	8336665	located_end	8315665
	estimated_end	8336665		
CH322-35F19 2L	16659721	16680721	located_end	16659721
	estimated_end	16680721		
CH322-35G01 X	18002104	18023104	estimated_end	18002104
	located_end	18023104		
CH322-35G02 ArmU	2185522	2206522	estimated_end	2185522
	located_end	2206522		
CH322-35G05 2R	20454516	20475516	estimated_end	20454516
	located_end	20475516		
CH322-35G06 3L	24480324	24501324	estimated_end	24480324
	located_end	24501324		
CH322-35G07 2L	18081053	18102053	located_end	18081053
	estimated_end	18102053		
CH322-35G12 3R	4504337	4525337	located_end	4504337
	estimated_end	4525337		
CH322-35G14 3R	21616937	21637937	located_end	21616937
	estimated_end	21637937		
CH322-35G15 2L	13140444	13161444	estimated_end	13140444
	located_end	13161444		
CH322-35G16 3R	14962181	14983181	located_end	14962181
	estimated_end	14983181		
CH322-35G18 2R	15124704	15145704	estimated_end	15124704
	located_end	15145704		
CH322-35G19 3L	3861702	3882702	estimated_end	3861702
	located_end	3882702		
CH322-35G20 3R	27321186	27342186	located_end	27321186
	estimated_end	27342186		
CH322-35G23 3R	6637569	6658569	located_end	6637569
	estimated_end	6658569		
CH322-35G24 X	19581409	19602409	located_end	19581409
	estimated_end	19602409		
CH322-35H03 2L	8969198	8990198	located_end	8969198
	estimated_end	8990198		
CH322-35H04 2R	6219725	6240725	located_end	6219725
	estimated_end	6240725		
CH322-35H05 2R	14606533	14627533	estimated_end	14606533
	located_end	14627533		
CH322-35H06 3R	19133242	19154242	located_end	19133242
	estimated_end	19154242		
CH322-35H07 3R	22262984	22283984	located_end	22262984
	estimated_end	22283984		

CH322-35H12 3L	2791220	2812220	estimated_end	2791220
	located_end	2812220		
CH322-35H13 3L	9537892	9558892	estimated_end	9537892
	located_end	9558892		
CH322-35H15 2L	20335642	20356642	located_end	20335642
	estimated_end	20356642		
CH322-35H17 2R	12605645	12626645	located_end	12605645
	estimated_end	12626645		
CH322-35H19 2R	4546791	4567791	estimated_end	4546791
	located_end	4567791		
CH322-35H20 3R	3586606	3607606	located_end	3586606
	estimated_end	3607606		
CH322-35H22 2L	17386594	17407594	located_end	17386594
	estimated_end	17407594		
CH322-35H23 3L	10528412	10549412	located_end	10528412
	estimated_end	10549412		
CH322-35I03 2R	17230757	17251757	estimated_end	17230757
	located_end	17251757		
CH322-35I04 2L	22897310	22918310	estimated_end	22897310
	located_end	22918310		
CH322-35I05 3R	20291005	20312005	located_end	20291005
	estimated_end	20312005		
CH322-35I06 3R	2587850	2608850	estimated_end	2587850
	located_end	2608850		
CH322-35I08 3L	8245580	8266580	estimated_end	8245580
	located_end	8266580		
CH322-35I09 2R	4547617	4568617	estimated_end	4547617
	located_end	4568617		
CH322-35I10 2L	12444352	12465352	estimated_end	12444352
	located_end	12465352		
CH322-35I11 3L	21981011	22002011	located_end	21981011
	estimated_end	22002011		
CH322-35I12 3R	8539096	8560096	estimated_end	8539096
	located_end	8560096		
CH322-35I16 2L	50494	71494	estimated_end	50494
	located_end	71494		
CH322-35I24 2RHet	3183489	3204489	located_end	3183489
	estimated_end	3204489		
CH322-35J06 2R	16716866	16737866	located_end	16716866
	estimated_end	16737866		
CH322-35J07 2L	17196994	17217994	located_end	17196994
	estimated_end	17217994		
CH322-35J09 3R	24641216	24662216	located_end	24641216
	estimated_end	24662216		
CH322-35J11 X	669726	690726	located_end	669726
	estimated_end	690726		
CH322-35J15 X	16707673	16728673	estimated_end	16707673
	located_end	16728673		
CH322-35J19 2R	17748287	17769287	estimated_end	17748287
	located_end	17769287		
CH322-35J20 3R	5880307	5901307	located_end	5880307
	estimated_end	5901307		
CH322-35J21 2R	2481662	2502662	located_end	2481662
	estimated_end	2502662		

CH322-35J24 2L	6394597	6415597	located_end	6394597
	estimated_end	6415597		
CH322-35K01 2L	17359671	17380671	estimated_end	17359671
	located_end	17380671		
CH322-35K02 2L	20514769	20535769	located_end	20514769
	estimated_end	20535769		
CH322-35K05 2L	6820878	6841878	estimated_end	6820878
	located_end	6841878		
CH322-35K06 2R	9479868	9500868	estimated_end	9479868
	located_end	9500868		
CH322-35K13 2L	19927369	19948369	estimated_end	19927369
	located_end	19948369		
CH322-35K17 2L	19810540	19831540	estimated_end	19810540
	located_end	19831540		
CH322-35K18 2L	833535	854535	located_end	833535
	estimated_end	854535		
CH322-35K19 3L	18943114	18964114	located_end	18943114
	estimated_end	18964114		
CH322-35K23 3R	17294522	17315522	estimated_end	17294522
	located_end	17315522		
CH322-35K24 2R	1743034	1764034	located_end	1743034
	estimated_end	1764034		
CH322-35L08 3R	5347257	5368257	estimated_end	5347257
	located_end	5368257		
CH322-35L11 2R	4715002	4736002	located_end	4715002
	estimated_end	4736002		
CH322-35L15 2L	9181514	9202514	estimated_end	9181514
	located_end	9202514		
CH322-35L16 3R	15283952	15304952	estimated_end	15283952
	located_end	15304952		
CH322-35L19 3R	336077	357077	located_end	336077
	estimated_end	357077		
CH322-35L20 3L	5665102	5686102	located_end	5665102
	estimated_end	5686102		
CH322-35L22 3R	26584864	26605864	estimated_end	26584864
	located_end	26605864		
CH322-35M01 2R	4059476	4080476	estimated_end	4059476
	located_end	4080476		
CH322-35M03 3L	6636003	6657003	estimated_end	6636003
	located_end	6657003		
CH322-35M06 2L	2005899	2026899	estimated_end	2005899
	located_end	2026899		
CH322-35M09 2L	19644278	19665278	located_end	19644278
	estimated_end	19665278		
CH322-35M10 2L	5881636	5902636	estimated_end	5881636
	located_end	5902636		
CH322-35M12 3R	22057832	22078832	estimated_end	22057832
	located_end	22078832		
CH322-35M13 X	1119510	1140510	located_end	1119510
	estimated_end	1140510		
CH322-35M15 2R	18876257	18897257	located_end	18876257
	estimated_end	18897257		
CH322-35M18 2L	21662260	21683260	located_end	21662260
	estimated_end	21683260		

CH322-35M21 2R	20098107	20119107	estimated_end	20098107
	located_end	20119107		
CH322-35N05 2L	10901359	10922359	located_end	10901359
	estimated_end	10922359		
CH322-35N06 2L	10420322	10441322	estimated_end	10420322
	located_end	10441322		
CH322-35N07 2R	10217154	10238154	estimated_end	10217154
	located_end	10238154		
CH322-35N08 2L	17252154	17273154	estimated_end	17252154
	located_end	17273154		
CH322-35N09 3L	21304964	21325964	estimated_end	21304964
	located_end	21325964		
CH322-35N11 X	6819567	6840567	estimated_end	6819567
	located_end	6840567		
CH322-35N13 3L	10540739	10561739	located_end	10540739
	estimated_end	10561739		
CH322-35N14 2L	9373645	9394645	located_end	9373645
	estimated_end	9394645		
CH322-35N16 X	18298138	18319138	estimated_end	18298138
	located_end	18319138		
CH322-35N23 3R	25143134	25164134	located_end	25143134
	estimated_end	25164134		
CH322-35N24 3R	20097611	20118611	estimated_end	20097611
	located_end	20118611		
CH322-35O01 3R	7038614	7059614	located_end	7038614
	estimated_end	7059614		
CH322-35O02 3L	16674903	16695903	estimated_end	16674903
	located_end	16695903		
CH322-35O03 2L	20120126	20141126	estimated_end	20120126
	located_end	20141126		
CH322-35O07 2R	12601982	12622982	estimated_end	12601982
	located_end	12622982		
CH322-35O08 3R	2665042	2686042	located_end	2665042
	estimated_end	2686042		
CH322-35O09 X	15210548	15231548	located_end	15210548
	estimated_end	15231548		
CH322-35O10 3L	12653667	12674667	located_end	12653667
	estimated_end	12674667		
CH322-35O11 2L	9872850	9893850	estimated_end	9872850
	located_end	9893850		
CH322-35P04 3R	19398562	19419562	estimated_end	19398562
	located_end	19419562		
CH322-35P05 3R	330687	351687	located_end	330687
	estimated_end	351687		
CH322-35P06 3R	3860713	3881713	estimated_end	3860713
	located_end	3881713		
CH322-35P08 3L	13876397	13897397	estimated_end	13876397
	located_end	13897397		
CH322-35P09 3L	703601	724601	estimated_end	703601
	located_end	724601		
CH322-35P10 2R	10891364	10912364	estimated_end	10891364
	located_end	10912364		
CH322-35P12 3L	12040224	12061224	estimated_end	12040224
	located_end	12061224		

CH322-35P15 X	20155805	20176805	located_end	20155805
estimated_end	20176805			
CH322-35P18 3L	7964027	7985027	estimated_end	7964027
located_end	7985027			
CH322-35P19 3R	13249035	13270035	estimated_end	13249035
located_end	13270035			
CH322-35P22 2L	14989628	15010628	estimated_end	14989628
located_end	15010628			
CH322-36A16 3LHet	2095778	2116778	estimated_end	2095778
located_end	2116778			
CH322-36A17 2R	19973978	19994978	located_end	19973978
estimated_end	19994978			
CH322-36A18 3R	540655	561655	estimated_end	540655
located_end	561655			
CH322-36B07 2R	12129220	12150220	located_end	12129220
estimated_end	12150220			
CH322-36B08 2R	19077706	19098706	estimated_end	19077706
located_end	19098706			
CH322-36B11 3R	18001179	18022179	located_end	18001179
estimated_end	18022179			
CH322-36B14 2L	762513	783513	estimated_end	762513
located_end	783513			
CH322-36B17 3L	8284375	8305375	located_end	8284375
estimated_end	8305375			
CH322-36B18 X	11696749	11717749	located_end	11696749
estimated_end	11717749			
CH322-36C03 3R	20461562	20482562	estimated_end	20461562
located_end	20482562			
CH322-36C04 ArmU	1585611	1606611	located_end	1585611
estimated_end	1606611			
CH322-36C07 X	12271327	12292327	estimated_end	12271327
located_end	12292327			
CH322-36C08 X	5567694	5588694	estimated_end	5567694
located_end	5588694			
CH322-36C11 2L	21952758	21973758	located_end	21952758
estimated_end	21973758			
CH322-36C12 3L	3156323	3177323	estimated_end	3156323
located_end	3177323			
CH322-36C14 2L	14773714	14794714	estimated_end	14773714
located_end	14794714			
CH322-36C15 3L	15898401	15919401	located_end	15898401
estimated_end	15919401			
CH322-36C16 3R	4703798	4724798	located_end	4703798
estimated_end	4724798			
CH322-36C20 2RHet	319445	340445	located_end	319445
estimated_end	340445			
CH322-36D07 3L	8903311	8924311	estimated_end	8903311
located_end	8924311			
CH322-36D18 2R	1798648	1819648	estimated_end	1798648
located_end	1819648			
CH322-36D19 3R	23950656	23971656	located_end	23950656
estimated_end	23971656			
CH322-36D20 3L	15092745	15113745	estimated_end	15092745
located_end	15113745			

CH322-36D24 3R	1745184	1766184	located_end 1745184
estimated_end	1766184		
CH322-36E01 2L	18265261	18286261	located_end 18265261
estimated_end	18286261		
CH322-36E02 2R	13369372	13390372	located_end 13369372
estimated_end	13390372		
CH322-36E08 3L	2475847	2496847	estimated_end 2475847
located_end	2496847		
CH322-36E12 3R	2732503	2753503	located_end 2732503
estimated_end	2753503		
CH322-36E13 3R	27852833	27873833	estimated_end 27852833
located_end	27873833		
CH322-36E14 2L	22744327	22765327	located_end 22744327
estimated_end	22765327		
CH322-36E17 3L	23899430	23920430	located_end 23899430
estimated_end	23920430		
CH322-36E18 3R	24976684	24997684	estimated_end 24976684
located_end	24997684		
CH322-36E19 X	17488707	17509707	estimated_end 17488707
located_end	17509707		
CH322-36F01 2R	8873903	8894903	located_end 8873903
estimated_end	8894903		
CH322-36F02 3L	16791379	16812379	estimated_end 16791379
located_end	16812379		
CH322-36F11 2R	644564	665564	located_end 644564
estimated_end	665564		
CH322-36F18 X	10516201	10537201	estimated_end 10516201
located_end	10537201		
CH322-36F20 3L	14487968	14508968	located_end 14487968
estimated_end	14508968		
CH322-36F21 ArmU	3875213	3896213	estimated_end 3875213
located_end	3896213		
CH322-36F24 X	5301714	5322714	located_end 5301714
estimated_end	5322714		
CH322-36G05 3R	8519635	8540635	located_end 8519635
estimated_end	8540635		
CH322-36G08 X	5799466	5820466	estimated_end 5799466
located_end	5820466		
CH322-36G12 2L	1088519	1109519	estimated_end 1088519
located_end	1109519		
CH322-36G13 2L	13542937	13563937	located_end 13542937
estimated_end	13563937		
CH322-36G16 2R	5776899	5797899	located_end 5776899
estimated_end	5797899		
CH322-36G20 3L	17756239	17777239	located_end 17756239
estimated_end	17777239		
CH322-36G21 3L	6561535	6582535	located_end 6561535
estimated_end	6582535		
CH322-36G22 3R	10244258	10265258	located_end 10244258
estimated_end	10265258		
CH322-36G24 2L	5088185	5109185	estimated_end 5088185
located_end	5109185		
CH322-36H07 4	657484	678484	estimated_end 657484
located_end	678484		

CH322-36H11 3R	10800740	10821740	estimated_end	10800740
	located_end	10821740		
CH322-36H14 X	21450069	21471069	located_end	21450069
	estimated_end	21471069		
CH322-36H16 3R	2591080	2612080	located_end	2591080
	estimated_end	2612080		
CH322-36H17 X	19418345	19439345	estimated_end	19418345
	located_end	19439345		
CH322-36H21 2R	20913328	20934328	estimated_end	20913328
	located_end	20934328		
CH322-36H22 3RHet	1976526	1997526	located_end	1976526
	estimated_end	1997526		
CH322-36I03 2R	18838180	18859180	located_end	18838180
	estimated_end	18859180		
CH322-36I06 3L	21952906	21973906	estimated_end	21952906
	located_end	21973906		
CH322-36I07 3L	12312963	12333963	located_end	12312963
	estimated_end	12333963		
CH322-36I09 3R	26432588	26453588	located_end	26432588
	estimated_end	26453588		
CH322-36I10 3R	18708429	18729429	estimated_end	18708429
	located_end	18729429		
CH322-36I11 2L	2892730	2913730	estimated_end	2892730
	located_end	2913730		
CH322-36I12 X	12196975	12217975	estimated_end	12196975
	located_end	12217975		
CH322-36I15 3R	21046205	21067205	estimated_end	21046205
	located_end	21067205		
CH322-36I17 2R	6881126	6902126	located_end	6881126
	estimated_end	6902126		
CH322-36I18 2R	914888	935888	located_end	914888
	estimated_end	935888		
CH322-36I19 3R	24221922	24242922	estimated_end	24221922
	located_end	24242922		
CH322-36I24 3R	476791	497791	located_end	476791
	estimated_end	497791		
CH322-36J02 2L	22984678	23005678	located_end	22984678
	estimated_end	23005678		
CH322-36J04 2L	20615470	20636470	estimated_end	20615470
	located_end	20636470		
CH322-36J08 X	16788708	16809708	located_end	16788708
	estimated_end	16809708		
CH322-36J09 X	7968568	7989568	located_end	7968568
	estimated_end	7989568		
CH322-36J11 3L	1156491	1177491	estimated_end	1156491
	located_end	1177491		
CH322-36J12 2R	12499227	12520227	located_end	12499227
	estimated_end	12520227		
CH322-36J13 2L	6881996	6902996	estimated_end	6881996
	located_end	6902996		
CH322-36J16 3R	22643914	22664914	estimated_end	22643914
	located_end	22664914		
CH322-36J17 3L	11427786	11448786	estimated_end	11427786
	located_end	11448786		

CH322-36J20 3L	17053589	17074589	estimated_end	17053589
	located_end	17074589		
CH322-36J23 3R	20885086	20906086	estimated_end	20885086
	located_end	20906086		
CH322-36K08 2R	10641859	10662859	estimated_end	10641859
	located_end	10662859		
CH322-36K10 2R	3541044	3562044	located_end	3541044
	estimated_end	3562044		
CH322-36K12 X	11232717	11253717	located_end	11232717
	estimated_end	11253717		
CH322-36K17 4	858858	879858	located_end	858858
	estimated_end	879858		
CH322-36K19 3R	2037933	2058933	estimated_end	2037933
	located_end	2058933		
CH322-36K23 2RHet	3164809	3185809	estimated_end	3164809
	located_end	3185809		
CH322-36K24 2R	4061673	4082673	located_end	4061673
	estimated_end	4082673		
CH322-36L09 X	20244940	20265940	located_end	20244940
	estimated_end	20265940		
CH322-36L13 3L	5669185	5690185	located_end	5669185
	estimated_end	5690185		
CH322-36L14 3R	4365383	4386383	estimated_end	4365383
	located_end	4386383		
CH322-36L15 2L	8290520	8311520	located_end	8290520
	estimated_end	8311520		
CH322-36L16 3L	12241759	12262759	located_end	12241759
	estimated_end	12262759		
CH322-36L18 3R	15760881	15781881	located_end	15760881
	estimated_end	15781881		
CH322-36L21 2R	10686876	10707876	located_end	10686876
	estimated_end	10707876		
CH322-36L22 2R	3891622	3912622	estimated_end	3891622
	located_end	3912622		
CH322-36M06 3L	723289	744289	estimated_end	723289
	located_end	744289		
CH322-36M16 3L	4911750	4932750	estimated_end	4911750
	located_end	4932750		
CH322-36M17 3R	4848200	4869200	estimated_end	4848200
	located_end	4869200		
CH322-36M20 3L	2853230	2874230	located_end	2853230
	estimated_end	2874230		
CH322-36M22 X	19917131	19938131	located_end	19917131
	estimated_end	19938131		
CH322-36M23 3L	21786626	21807626	located_end	21786626
	estimated_end	21807626		
CH322-36N01 ArmU	7356942	7377942	located_end	7356942
	estimated_end	7377942		
CH322-36N10 2R	1267146	1288146	estimated_end	1267146
	located_end	1288146		
CH322-36N11 2L	3445971	3466971	located_end	3445971
	estimated_end	3466971		
CH322-36N17 3R	20342475	20363475	estimated_end	20342475
	located_end	20363475		

CH322-36N18 3L	9749151	9770151	located_end	9749151
	estimated_end	9770151		
CH322-36N19 X	6936	27936	located_end	6936
	estimated_end	27936		
CH322-36N20 3L	23374238	23395238	estimated_end	23374238
	located_end	23395238		
CH322-36N24 X	18289768	18310768	located_end	18289768
	estimated_end	18310768		
CH322-36O02 2RHet	1577099	1598099	estimated_end	1577099
	located_end	1598099		
CH322-36O03 3RHet	2454544	2475544	located_end	2454544
	estimated_end	2475544		
CH322-36O06 3L	6177469	6198469	estimated_end	6177469
	located_end	6198469		
CH322-36O08 3L	12545860	12566860	located_end	12545860
	estimated_end	12566860		
CH322-36O11 X	21920530	21941530	estimated_end	21920530
	located_end	21941530		
CH322-36O16 3L	8816571	8837571	estimated_end	8816571
	located_end	8837571		
CH322-36O18 3RHet	2356560	2377560	estimated_end	2356560
	located_end	2377560		
CH322-36O19 2L	120131	141131	estimated_end	120131
	located_end	141131		
CH322-36O20 3L	22075821	22096821	located_end	22075821
	estimated_end	22096821		
CH322-36O22 2L	21103126	21124126	located_end	21103126
	estimated_end	21124126		
CH322-36P04 2R	13087762	13108762	estimated_end	13087762
	located_end	13108762		
CH322-36P05 2L	14671590	14692590	estimated_end	14671590
	located_end	14692590		
CH322-36P18 3R	12818247	12839247	estimated_end	12818247
	located_end	12839247		
CH322-36P19 3L	21077007	21098007	located_end	21077007
	estimated_end	21098007		
CH322-36P24 3R	2689184	2710184	estimated_end	2689184
	located_end	2710184		
CH322-37A03 2RHet	2252457	2273457	estimated_end	2252457
	located_end	2273457		
CH322-37A13 2L	10607104	10628104	located_end	10607104
	estimated_end	10628104		
CH322-37A14 2R	373552	394552	estimated_end	373552
	located_end	394552		
CH322-37A19 2L	21312702	21333702	estimated_end	21312702
	located_end	21333702		
CH322-37B07 3R	13469262	13490262	estimated_end	13469262
	located_end	13490262		
CH322-37B08 2L	9044494	9065494	estimated_end	9044494
	located_end	9065494		
CH322-37B13 2R	5437636	5458636	estimated_end	5437636
	located_end	5458636		
CH322-37B14 4	1197263	1218263	estimated_end	1197263
	located_end	1218263		

CH322-37B15 2L	3205515	3226515	estimated_end	3205515
	located_end	3226515		
CH322-37B16 2R	10459291	10480291	located_end	10459291
	estimated_end	10480291		
CH322-37B19 3R	13236152	13257152	estimated_end	13236152
	located_end	13257152		
CH322-37B20 3L	17427974	17448974	located_end	17427974
	estimated_end	17448974		
CH322-37C02 2L	21026484	21047484	located_end	21026484
	estimated_end	21047484		
CH322-37C05 3R	20944716	20965716	located_end	20944716
	estimated_end	20965716		
CH322-37C07 2R	15098040	15119040	estimated_end	15098040
	located_end	15119040		
CH322-37C08 3R	11073307	11094307	located_end	11073307
	estimated_end	11094307		
CH322-37C13 3R	12579827	12600827	estimated_end	12579827
	located_end	12600827		
CH322-37C15 3R	24489240	24510240	located_end	24489240
	estimated_end	24510240		
CH322-37C16 3R	17239963	17260963	located_end	17239963
	estimated_end	17260963		
CH322-37C20 2R	10401514	10422514	estimated_end	10401514
	located_end	10422514		
CH322-37C21 2L	4909561	4930561	located_end	4909561
	estimated_end	4930561		
CH322-37D03 3L	8385760	8406760	estimated_end	8385760
	located_end	8406760		
CH322-37D14 3R	21694502	21715502	located_end	21694502
	estimated_end	21715502		
CH322-37D15 X	12362445	12383445	located_end	12362445
	estimated_end	12383445		
CH322-37D23 3R	14778001	14799001	located_end	14778001
	estimated_end	14799001		
CH322-37D24 X	16461227	16482227	estimated_end	16461227
	located_end	16482227		
CH322-37E06 3R	7445909	7466909	estimated_end	7445909
	located_end	7466909		
CH322-37E07 3L	11465169	11486169	estimated_end	11465169
	located_end	11486169		
CH322-37E11 X	6152889	6173889	located_end	6152889
	estimated_end	6173889		
CH322-37E12 2R	9676549	9697549	estimated_end	9676549
	located_end	9697549		
CH322-37E13 2R	3993406	4014406	located_end	3993406
	estimated_end	4014406		
CH322-37E14 3R	14678133	14699133	estimated_end	14678133
	located_end	14699133		
CH322-37E17 2R	6064565	6085565	estimated_end	6064565
	located_end	6085565		
CH322-37E20 3R	11107353	11128353	located_end	11107353
	estimated_end	11128353		
CH322-37E22 2R	7737316	7758316	located_end	7737316
	estimated_end	7758316		

CH322-37E24 2R	7301304	7322304	estimated_end	7301304
	located_end	7322304		
CH322-37F05 3R	1165074	1186074	estimated_end	1165074
	located_end	1186074		
CH322-37F06 3R	12539996	12560996	estimated_end	12539996
	located_end	12560996		
CH322-37F07 3R	14893521	14914521	located_end	14893521
	estimated_end	14914521		
CH322-37F11 3L	736075	757075	estimated_end	736075
	located_end	757075		
CH322-37F12 2L	12538248	12559248	located_end	12538248
	estimated_end	12559248		
CH322-37F14 3L	21220649	21241649	located_end	21220649
	estimated_end	21241649		
CH322-37F16 2R	10405384	10426384	estimated_end	10405384
	located_end	10426384		
CH322-37F23 3L	17680952	17701952	located_end	17680952
	estimated_end	17701952		
CH322-37F24 ArmU	2385503	2406503	estimated_end	2385503
	located_end	2406503		
CH322-37G04 2R	14325266	14346266	located_end	14325266
	estimated_end	14346266		
CH322-37G05 2L	893626	914626	located_end	893626
	estimated_end	914626		
CH322-37G20 3R	15886084	15907084	located_end	15886084
	estimated_end	15907084		
CH322-37G22 2R	6801434	6822434	estimated_end	6801434
	located_end	6822434		
CH322-37G23 2L	14935429	14956429	estimated_end	14935429
	located_end	14956429		
CH322-37H03 2L	13760234	13781234	located_end	13760234
	estimated_end	13781234		
CH322-37H10 2R	468473	489473	estimated_end	468473
	located_end	489473		
CH322-37H11 3L	12436198	12457198	located_end	12436198
	estimated_end	12457198		
CH322-37H16 2L	7660307	7681307	estimated_end	7660307
	located_end	7681307		
CH322-37H22 2L	941613	962613	located_end	941613
	estimated_end	962613		
CH322-37H24 X	18903258	18924258	estimated_end	18903258
	located_end	18924258		
CH322-37I01 3R	27039501	27060501	estimated_end	27039501
	located_end	27060501		
CH322-37I03 X	11605195	11626195	estimated_end	11605195
	located_end	11626195		
CH322-37I05 3R	18839473	18860473	estimated_end	18839473
	located_end	18860473		
CH322-37I12 X	12905686	12926686	estimated_end	12905686
	located_end	12926686		
CH322-37I14 X	4985147	5006147	estimated_end	4985147
	located_end	5006147		
CH322-37I15 2L	7137600	7158600	estimated_end	7137600
	located_end	7158600		

CH322-37I16 3R	3136793	3157793	estimated_end	3136793
	located_end	3157793		
CH322-37I20 2L	915768	936768	estimated_end	915768
	located_end	936768		
CH322-37I22 3R	22777870	22798870	estimated_end	22777870
	located_end	22798870		
CH322-37I24 2R	11184990	11205990	located_end	11184990
	estimated_end	11205990		
CH322-37J03 X	8630924	8651924	located_end	8630924
	estimated_end	8651924		
CH322-37J06 2L	12063793	12084793	located_end	12063793
	estimated_end	12084793		
CH322-37J09 2L	2597651	2618651	located_end	2597651
	estimated_end	2618651		
CH322-37J10 3R	24889404	24910404	estimated_end	24889404
	located_end	24910404		
CH322-37J11 2L	11345168	11366168	located_end	11345168
	estimated_end	11366168		
CH322-37J12 3R	7540476	7561476	estimated_end	7540476
	located_end	7561476		
CH322-37J14 2R	11232235	11253235	estimated_end	11232235
	located_end	11253235		
CH322-37J15 2L	2243614	2264614	estimated_end	2243614
	located_end	2264614		
CH322-37J17 3L	12785662	12806662	located_end	12785662
	estimated_end	12806662		
CH322-37J24 3R	9336398	9357398	located_end	9336398
	estimated_end	9357398		
CH322-37K03 2L	12058389	12079389	located_end	12058389
	estimated_end	12079389		
CH322-37K04 3R	2553055	2574055	estimated_end	2553055
	located_end	2574055		
CH322-37K05 3R	23430658	23451658	estimated_end	23430658
	located_end	23451658		
CH322-37K08 X	1347544	1368544	estimated_end	1347544
	located_end	1368544		
CH322-37K10 X	7226864	7247864	located_end	7226864
	estimated_end	7247864		
CH322-37K14 3L	12577133	12598133	estimated_end	12577133
	located_end	12598133		
CH322-37K15 2L	11678590	11699590	estimated_end	11678590
	located_end	11699590		
CH322-37K17 2R	14953461	14974461	located_end	14953461
	estimated_end	14974461		
CH322-37K21 2L	10555424	10576424	estimated_end	10555424
	located_end	10576424		
CH322-37L02 2L	10238149	10259149	estimated_end	10238149
	located_end	10259149		
CH322-37L06 2R	15496058	15517058	estimated_end	15496058
	located_end	15517058		
CH322-37L07 2L	5377809	5398809	located_end	5377809
	estimated_end	5398809		
CH322-37L10 3L	5693409	5714409	located_end	5693409
	estimated_end	5714409		

CH322-37L12 X	2592275	2613275	located_end	2592275
	estimated_end	2613275		
CH322-37L14 2L	13902431	13923431	located_end	13902431
	estimated_end	13923431		
CH322-37L16 3R	7450344	7471344	estimated_end	7450344
	located_end	7471344		
CH322-37L17 2R	19031277	19052277	located_end	19031277
	estimated_end	19052277		
CH322-37L23 3L	2754529	2775529	estimated_end	2754529
	located_end	2775529		
CH322-37L24 3R	12771975	12792975	estimated_end	12771975
	located_end	12792975		
CH322-37M01 2R	19750143	19771143	estimated_end	19750143
	located_end	19771143		
CH322-37M02 2RHet	26241	47241	located_end	26241
			estimated_end	47241
CH322-37M04 2R	723673	744673	estimated_end	723673
	located_end	744673		
CH322-37M09 3L	17260296	17281296	located_end	17260296
	estimated_end	17281296		
CH322-37M10 3R	27696391	27717391	located_end	27696391
	estimated_end	27717391		
CH322-37N03 2L	18180835	18201835	located_end	18180835
	estimated_end	18201835		
CH322-37N06 3L	4932983	4953983	located_end	4932983
	estimated_end	4953983		
CH322-37N07 ArmU	2353991	2374991	estimated_end	2353991
	located_end	2374991		
CH322-37N08 X	924316	945316	located_end	924316
	estimated_end	945316		
CH322-37N09 X	15378515	15399515	estimated_end	15378515
	located_end	15399515		
CH322-37N14 3L	12058834	12079834	located_end	12058834
	estimated_end	12079834		
CH322-37N15 2R	10258370	10279370	estimated_end	10258370
	located_end	10279370		
CH322-37N17 2L	17580796	17601796	estimated_end	17580796
	located_end	17601796		
CH322-37O03 2L	5689887	5710887	estimated_end	5689887
	located_end	5710887		
CH322-37O04 2L	13181770	13202770	estimated_end	13181770
	located_end	13202770		
CH322-37O09 3R	4566144	4587144	estimated_end	4566144
	located_end	4587144		
CH322-37O12 2L	14219142	14240142	located_end	14219142
	estimated_end	14240142		
CH322-37O16 2R	12976732	12997732	estimated_end	12976732
	located_end	12997732		
CH322-37O19 ArmU	1341073	1362073	located_end	1341073
	estimated_end	1362073		
CH322-37O20 2L	18671979	18692979	estimated_end	18671979
	located_end	18692979		
CH322-37P07 2L	582510	603510	located_end	582510
	estimated_end	603510		

CH322-37P08 3L	6018894	6039894	estimated_end	6018894
	located_end	6039894		
CH322-37P09 3L	21890387	21911387	estimated_end	21890387
	located_end	21911387		
CH322-37P13 2R	9991998	10012998	estimated_end	9991998
	located_end	10012998		
CH322-37P16 2R	20817229	20838229	located_end	20817229
	estimated_end	20838229		
CH322-37P17 2L	18736548	18757548	located_end	18736548
	estimated_end	18757548		
CH322-37P18 2R	14443073	14464073	located_end	14443073
	estimated_end	14464073		
CH322-38A10 2R	1410934	1431934	located_end	1410934
	estimated_end	1431934		
CH322-38A20 2L	15631276	15652276	located_end	15631276
	estimated_end	15652276		
CH322-38B01 X	6900935	6921935	located_end	6900935
	estimated_end	6921935		
CH322-38B03 2R	17843744	17864744	located_end	17843744
	estimated_end	17864744		
CH322-38B05 3L	5431838	5452838	located_end	5431838
	estimated_end	5452838		
CH322-38B08 X	17675459	17696459	located_end	17675459
	estimated_end	17696459		
CH322-38B13 3L	10337868	10358868	located_end	10337868
	estimated_end	10358868		
CH322-38C04 2R	4532990	4553990	located_end	4532990
	estimated_end	4553990		
CH322-38C08 3R	15737227	15758227	estimated_end	15737227
	located_end	15758227		
CH322-38C09 3RHet	592325	613325	located_end	592325
	estimated_end	613325		
CH322-38C10 3L	23430964	23451964	estimated_end	23430964
	located_end	23451964		
CH322-38C11 3R	5877022	5898022	located_end	5877022
	estimated_end	5898022		
CH322-38C16 2L	7888553	7909553	located_end	7888553
	estimated_end	7909553		
CH322-38C19 3L	4694966	4715966	located_end	4694966
	estimated_end	4715966		
CH322-38C20 2R	12229770	12250770	estimated_end	12229770
	located_end	12250770		
CH322-38C22 X	13956034	13977034	estimated_end	13956034
	located_end	13977034		
CH322-38D02 3R	9167175	9188175	estimated_end	9167175
	located_end	9188175		
CH322-38D03 3R	10989397	11010397	estimated_end	10989397
	located_end	11010397		
CH322-38D04 X	499947	520947	located_end	499947
	estimated_end	520947		
CH322-38D07 3R	26514965	26535965	estimated_end	26514965
	located_end	26535965		
CH322-38D08 2R	13071487	13092487	estimated_end	13071487
	located_end	13092487		

CH322-38D09 X	20483507	20504507	located_end	20483507
	estimated_end	20504507		
CH322-38D10 2L	13961000	13982000	estimated_end	13961000
	located_end	13982000		
CH322-38D11 2R	13851852	13872852	located_end	13851852
	estimated_end	13872852		
CH322-38D17 3RHet	2358247	2379247	estimated_end	2358247
	located_end	2379247		
CH322-38E01 2L	6522214	6543214	estimated_end	6522214
	located_end	6543214		
CH322-38E02 3L	3989851	4010851	located_end	3989851
	estimated_end	4010851		
CH322-38E07 X	974007	995007	located_end	974007
	estimated_end	995007		
CH322-38E12 2L	10470069	10491069	located_end	10470069
	estimated_end	10491069		
CH322-38E21 3R	27294069	27315069	estimated_end	27294069
	located_end	27315069		
CH322-38E22 3L	3066321	3087321	estimated_end	3066321
	located_end	3087321		
CH322-38F03 2R	8711538	8732538	estimated_end	8711538
	located_end	8732538		
CH322-38F06 X	7091290	7112290	estimated_end	7091290
	located_end	7112290		
CH322-38F10 2L	13961355	13982355	located_end	13961355
	estimated_end	13982355		
CH322-38F14 2L	22040982	22061982	estimated_end	22040982
	located_end	22061982		
CH322-38F23 3R	21823343	21844343	located_end	21823343
	estimated_end	21844343		
CH322-38G03 3R	9549069	9570069	located_end	9549069
	estimated_end	9570069		
CH322-38G05 3L	18067515	18088515	located_end	18067515
	estimated_end	18088515		
CH322-38H05 X	1472902	1493902	located_end	1472902
	estimated_end	1493902		
CH322-38H06 3L	23956558	23977558	estimated_end	23956558
	located_end	23977558		
CH322-38H19 2R	14329117	14350117	estimated_end	14329117
	located_end	14350117		
CH322-38H20 3R	10924992	10945992	estimated_end	10924992
	located_end	10945992		
CH322-38H23 3R	25557858	25578858	located_end	25557858
	estimated_end	25578858		
CH322-38H24 2R	18290357	18311357	located_end	18290357
	estimated_end	18311357		
CH322-38I02 X	6356858	6377858	located_end	6356858
	estimated_end	6377858		
CH322-38I03 3L	5557806	5578806	located_end	5557806
	estimated_end	5578806		
CH322-38I06 3L	6319805	6340805	estimated_end	6319805
	located_end	6340805		
CH322-38I09 X	14547272	14568272	located_end	14547272
	estimated_end	14568272		

CH322-38I10 2R	11121759	11142759	estimated_end	11121759
	located_end	11142759		
CH322-38I11 2L	19779270	19800270	located_end	19779270
	estimated_end	19800270		
CH322-38I22 2L	19661294	19682294	estimated_end	19661294
	located_end	19682294		
CH322-38I24 X	4389330	4410330	located_end	4389330
	estimated_end	4410330		
CH322-38J01 3L	1362208	1383208	estimated_end	1362208
	located_end	1383208		
CH322-38J02 2L	17031497	17052497	located_end	17031497
	estimated_end	17052497		
CH322-38J12 X	444718	465718	estimated_end	444718
	located_end	465718		
CH322-38J13 2R	7889884	7910884	estimated_end	7889884
	located_end	7910884		
CH322-38J17 3R	3074878	3095878	located_end	3074878
	estimated_end	3095878		
CH322-38J18 2R	4304872	4325872	estimated_end	4304872
	located_end	4325872		
CH322-38J21 3L	8659984	8680984	located_end	8659984
	estimated_end	8680984		
CH322-38J24 X	22101149	22122149	estimated_end	22101149
	located_end	22122149		
CH322-38K02 3L	20870224	20891224	located_end	20870224
	estimated_end	20891224		
CH322-38K04 2R	19442882	19463882	located_end	19442882
	estimated_end	19463882		
CH322-38K06 3R	10748151	10769151	located_end	10748151
	estimated_end	10769151		
CH322-38K08 X	674354	695354	estimated_end	674354
	located_end	695354		
CH322-38K09 2L	20504117	20525117	located_end	20504117
	estimated_end	20525117		
CH322-38K15 2L	12020335	12041335	located_end	12020335
	estimated_end	12041335		
CH322-38K17 3R	2975602	2996602	estimated_end	2975602
	located_end	2996602		
CH322-38K23 ArmU	2951004	2972004	located_end	2951004
	estimated_end	2972004		
CH322-38K24 3L	21887287	21908287	estimated_end	21887287
	located_end	21908287		
CH322-38L12 3R	2362978	2383978	located_end	2362978
	estimated_end	2383978		
CH322-38L13 3L	12964989	12985989	estimated_end	12964989
	located_end	12985989		
CH322-38L18 3R	22798124	22819124	located_end	22798124
	estimated_end	22819124		
CH322-38M03 2L	1425906	1446906	located_end	1425906
	estimated_end	1446906		
CH322-38M04 X	15631795	15652795	located_end	15631795
	estimated_end	15652795		
CH322-38M08 2R	10357729	10378729	estimated_end	10357729
	located_end	10378729		

CH322-38M12 2L	16408075	16429075	estimated_end	16408075
	located_end	16429075		
CH322-38M14 2L	19197862	19218862	located_end	19197862
	estimated_end	19218862		
CH322-38M16 3R	3418701	3439701	located_end	3418701
	estimated_end	3439701		
CH322-38M20 2R	636600	657600	located_end	636600
	estimated_end	657600		
CH322-38N01 2R	972211	993211	located_end	972211
	estimated_end	993211		
CH322-38N04 3L	6882833	6903833	estimated_end	6882833
	located_end	6903833		
CH322-38N05 2R	18341278	18362278	estimated_end	18341278
	located_end	18362278		
CH322-38N07 3R	11378328	11399328	estimated_end	11378328
	located_end	11399328		
CH322-38N08 2L	12580941	12601941	located_end	12580941
	estimated_end	12601941		
CH322-38N09 2R	18113014	18134014	estimated_end	18113014
	located_end	18134014		
CH322-38N10 X	1648289	1669289	estimated_end	1648289
	located_end	1669289		
CH322-38N16 3R	20494231	20515231	located_end	20494231
	estimated_end	20515231		
CH322-38N21 3R	23067455	23088455	located_end	23067455
	estimated_end	23088455		
CH322-38O04 2L	13540326	13561326	located_end	13540326
	estimated_end	13561326		
CH322-38O10 4	780565	801565	estimated_end	780565
	located_end	801565		
CH322-38O11 3L	15984113	16005113	located_end	15984113
	estimated_end	16005113		
CH322-38O12 3L	9773532	9794532	estimated_end	9773532
	located_end	9794532		
CH322-38O20 3L	17534699	17555699	located_end	17534699
	estimated_end	17555699		
CH322-38O21 2L	1205017	1226017	located_end	1205017
	estimated_end	1226017		
CH322-38O22 2R	11928898	11949898	located_end	11928898
	estimated_end	11949898		
CH322-38P04 X	5459280	5480280	estimated_end	5459280
	located_end	5480280		
CH322-38P08 3R	940170	961170	located_end	940170
	estimated_end	961170		
CH322-38P09 3R	3130122	3151122	located_end	3130122
	estimated_end	3151122		
CH322-38P12 3R	19322973	19343973	located_end	19322973
	estimated_end	19343973		
CH322-38P14 3R	227108	248108	estimated_end	227108
	located_end	248108		
CH322-38P18 2R	3604437	3625437	located_end	3604437
	estimated_end	3625437		
CH322-38P20 3R	14446594	14467594	located_end	14446594
	estimated_end	14467594		

CH322-38P21 3R	21928630	21949630	estimated_end	21928630
	located_end	21949630		
CH322-38P22 2L	14858234	14879234	estimated_end	14858234
	located_end	14879234		
CH322-39A05 ArmU	2548210	2569210	estimated_end	2548210
	located_end	2569210		
CH322-39A08 3R	21409320	21430320	located_end	21409320
	estimated_end	21430320		
CH322-39A10 3R	26641873	26662873	estimated_end	26641873
	located_end	26662873		
CH322-39A13 ArmU	5676740	5697740	estimated_end	5676740
	located_end	5697740		
CH322-39A14 2R	4434827	4455827	located_end	4434827
	estimated_end	4455827		
CH322-39A16 3R	1070070	1091070	estimated_end	1070070
	located_end	1091070		
CH322-39A17 ArmU	9775202	9796202	estimated_end	9775202
	located_end	9796202		
CH322-39A20 3L	22941026	22962026	located_end	22941026
	estimated_end	22962026		
CH322-39A23 3LHet	397160	418160	estimated_end	397160
	located_end	418160		
CH322-39B03 2L	19303983	19324983	estimated_end	19303983
	located_end	19324983		
CH322-39B05 2RHet	722522	743522	estimated_end	722522
	located_end	743522		
CH322-39B06 2R	1417866	1438866	located_end	1417866
	estimated_end	1438866		
CH322-39B07 4	192085	213085	estimated_end	192085
	located_end	213085		
CH322-39B08 2L	4422201	4443201	estimated_end	4422201
	located_end	4443201		
CH322-39B09 4	730683	751683	estimated_end	730683
	located_end	751683		
CH322-39B10 ArmU	9365706	9386706	located_end	9365706
	estimated_end	9386706		
CH322-39B14 3LHet	1016518	1037518	estimated_end	1016518
	located_end	1037518		
CH322-39B15 X	10531264	10552264	estimated_end	10531264
	located_end	10552264		
CH322-39B17 3R	19057920	19078920	located_end	19057920
	estimated_end	19078920		
CH322-39B18 3L	1913947	1934947	located_end	1913947
	estimated_end	1934947		
CH322-39B19 2L	4966358	4987358	located_end	4966358
	estimated_end	4987358		
CH322-39C08 3R	11475229	11496229	located_end	11475229
	estimated_end	11496229		
CH322-39C09 3R	14803421	14824421	estimated_end	14803421
	located_end	14824421		
CH322-39C10 2R	14890430	14911430	estimated_end	14890430
	located_end	14911430		
CH322-39C11 2R	16902961	16923961	estimated_end	16902961
	located_end	16923961		

CH322-39C13 3R	552693	573693	located_end	552693
	estimated_end	573693		
CH322-39C14 3R	12436240	12457240	estimated_end	12436240
	located_end	12457240		
CH322-39C19 3L	12689374	12710374	estimated_end	12689374
	located_end	12710374		
CH322-39C20 3R	19254440	19275440	estimated_end	19254440
	located_end	19275440		
CH322-39C21 2L	21567059	21588059	estimated_end	21567059
	located_end	21588059		
CH322-39D04 2L	13491629	13512629	estimated_end	13491629
	located_end	13512629		
CH322-39D05 2R	1017806	1038806	estimated_end	1017806
	located_end	1038806		
CH322-39D07 X	12127120	12148120	located_end	12127120
	estimated_end	12148120		
CH322-39D10 3R	14563055	14584055	estimated_end	14563055
	located_end	14584055		
CH322-39D11 3L	3425154	3446154	estimated_end	3425154
	located_end	3446154		
CH322-39D14 X	12905258	12926258	located_end	12905258
	estimated_end	12926258		
CH322-39D19 2R	6326328	6347328	located_end	6326328
	estimated_end	6347328		
CH322-39D21 2L	10157573	10178573	estimated_end	10157573
	located_end	10178573		
CH322-39D24 2R	17817321	17838321	located_end	17817321
	estimated_end	17838321		
CH322-39E03 3R	9917485	9938485	estimated_end	9917485
	located_end	9938485		
CH322-39E05 3L	22522434	22543434	located_end	22522434
	estimated_end	22543434		
CH322-39E06 3L	12795862	12816862	estimated_end	12795862
	located_end	12816862		
CH322-39E09 2R	8009904	8030904	estimated_end	8009904
	located_end	8030904		
CH322-39E10 3L	13132839	13153839	located_end	13132839
	estimated_end	13153839		
CH322-39E11 3R	13079319	13100319	estimated_end	13079319
	located_end	13100319		
CH322-39E13 2R	389989	410989	estimated_end	389989
	located_end	410989		
CH322-39E14 2R	21013852	21034852	located_end	21013852
	estimated_end	21034852		
CH322-39E15 2R	1687552	1708552	located_end	1687552
	estimated_end	1708552		
CH322-39E16 3L	22271263	22292263	located_end	22271263
	estimated_end	22292263		
CH322-39E19 X	11973487	11994487	estimated_end	11973487
	located_end	11994487		
CH322-39E21 X	8696641	8717641	located_end	8696641
	estimated_end	8717641		
CH322-39E22 X	19050498	19071498	located_end	19050498
	estimated_end	19071498		

CH322-39F03 2R	12303124	12324124	located_end	12303124
	estimated_end	12324124		
CH322-39F05 2R	5912402	5933402	located_end	5912402
	estimated_end	5933402		
CH322-39F06 2R	16559878	16580878	estimated_end	16559878
	located_end	16580878		
CH322-39F10 X	14121706	14142706	located_end	14121706
	estimated_end	14142706		
CH322-39F13 2R	5039645	5060645	estimated_end	5039645
	located_end	5060645		
CH322-39F18 3L	20808628	20829628	estimated_end	20808628
	located_end	20829628		
CH322-39F20 X	3277995	3298995	estimated_end	3277995
	located_end	3298995		
CH322-39F24 3R	13385856	13406856	located_end	13385856
	estimated_end	13406856		
CH322-39G03 2R	4734462	4755462	located_end	4734462
	estimated_end	4755462		
CH322-39G04 2L	15800269	15821269	estimated_end	15800269
	located_end	15821269		
CH322-39G06 3R	20998155	21019155	estimated_end	20998155
	located_end	21019155		
CH322-39G08 3L	19395468	19416468	estimated_end	19395468
	located_end	19416468		
CH322-39G09 3R	2756742	2777742	located_end	2756742
	estimated_end	2777742		
CH322-39G10 3R	21319096	21340096	estimated_end	21319096
	located_end	21340096		
CH322-39G11 3L	22268691	22289691	located_end	22268691
	estimated_end	22289691		
CH322-39G13 X	12615708	12636708	estimated_end	12615708
	located_end	12636708		
CH322-39G14 3R	13678437	13699437	estimated_end	13678437
	located_end	13699437		
CH322-39G18 3R	8825469	8846469	located_end	8825469
	estimated_end	8846469		
CH322-39G19 ArmU	4675461	4696461	estimated_end	4675461
	located_end	4696461		
CH322-39G23 X	6741557	6762557	located_end	6741557
	estimated_end	6762557		
CH322-39G24 3R	22459940	22480940	estimated_end	22459940
	located_end	22480940		
CH322-39H05 3R	25690825	25711825	located_end	25690825
	estimated_end	25711825		
CH322-39H06 3L	13478037	13499037	estimated_end	13478037
	located_end	13499037		
CH322-39H07 3R	12970354	12991354	estimated_end	12970354
	located_end	12991354		
CH322-39H09 3R	14775637	14796637	located_end	14775637
	estimated_end	14796637		
CH322-39H10 3L	5492326	5513326	located_end	5492326
	estimated_end	5513326		
CH322-39H12 3L	4757379	4778379	located_end	4757379
	estimated_end	4778379		

CH322-39H13 3R	17412630	17433630	estimated_end	17412630
	located_end	17433630		
CH322-39H14 2R	16211502	16232502	estimated_end	16211502
	located_end	16232502		
CH322-39H15 2R	8931582	8952582	located_end	8931582
	estimated_end	8952582		
CH322-39H16 2R	13563411	13584411	estimated_end	13563411
	located_end	13584411		
CH322-39H17 X	20346890	20367890	located_end	20346890
	estimated_end	20367890		
CH322-39H19 2R	7404236	7425236	located_end	7404236
	estimated_end	7425236		
CH322-39H20 3L	11342951	11363951	estimated_end	11342951
	located_end	11363951		
CH322-39H22 2L	11721028	11742028	estimated_end	11721028
	located_end	11742028		
CH322-39H23 2L	6534960	6555960	located_end	6534960
	estimated_end	6555960		
CH322-39H24 2R	3469402	3490402	located_end	3469402
	estimated_end	3490402		
CH322-39I01 3R	26813934	26834934	located_end	26813934
	estimated_end	26834934		
CH322-39I04 3Rhet	1182829	1203829	estimated_end	1182829
	located_end	1203829		
CH322-39I06 3R	25720495	25741495	estimated_end	25720495
	located_end	25741495		
CH322-39I07 3R	9422963	9443963	estimated_end	9422963
	located_end	9443963		
CH322-39I08 2R	707797	728797	located_end	707797
	estimated_end	728797		
CH322-39I09 3R	21745209	21766209	located_end	21745209
	estimated_end	21766209		
CH322-39I13 3R	11910425	11931425	located_end	11910425
	estimated_end	11931425		
CH322-39I14 3L	15649013	15670013	located_end	15649013
	estimated_end	15670013		
CH322-39I15 3R	6624636	6645636	located_end	6624636
	estimated_end	6645636		
CH322-39I21 4	883198	904198	estimated_end	883198
	located_end	904198		
CH322-39I22 2L	17352987	17373987	located_end	17352987
	estimated_end	17373987		
CH322-39I23 3R	7726879	7747879	located_end	7726879
	estimated_end	7747879		
CH322-39I24 2R	12282105	12303105	estimated_end	12282105
	located_end	12303105		
CH322-39J02 3R	15229689	15250689	estimated_end	15229689
	located_end	15250689		
CH322-39J05 3L	11861271	11882271	located_end	11861271
	estimated_end	11882271		
CH322-39J07 X	20766898	20787898	estimated_end	20766898
	located_end	20787898		
CH322-39J08 2R	8458291	8479291	located_end	8458291
	estimated_end	8479291		

CH322-39J10 3L	13393834	13414834	located_end	13393834
	estimated_end	13414834		
CH322-39J13 2R	13791495	13812495	located_end	13791495
	estimated_end	13812495		
CH322-39J15 3R	4190628	4211628	located_end	4190628
	estimated_end	4211628		
CH322-39J17 2R	6731464	6752464	located_end	6731464
	estimated_end	6752464		
CH322-39J19 2L	9583897	9604897	located_end	9583897
	estimated_end	9604897		
CH322-39J20 3L	5288956	5309956	located_end	5288956
	estimated_end	5309956		
CH322-39J23 3L	19641654	19662654	located_end	19641654
	estimated_end	19662654		
CH322-39K01 2R	12816150	12837150	located_end	12816150
	estimated_end	12837150		
CH322-39K05 3R	19730814	19751814	estimated_end	19730814
	located_end	19751814		
CH322-39K06 3L	6713426	6734426	located_end	6713426
	estimated_end	6734426		
CH322-39K07 X	5425681	5446681	estimated_end	5425681
	located_end	5446681		
CH322-39K08 3L	3133669	3154669	located_end	3133669
	estimated_end	3154669		
CH322-39K13 3L	17303394	17324394	located_end	17303394
	estimated_end	17324394		
CH322-39K18 2L	16699355	16720355	estimated_end	16699355
	located_end	16720355		
CH322-39K19 3R	27294611	27315611	located_end	27294611
	estimated_end	27315611		
CH322-39K20 2L	11532289	11553289	located_end	11532289
	estimated_end	11553289		
CH322-39K22 X	3794742	3815742	located_end	3794742
	estimated_end	3815742		
CH322-39L02 3R	7729796	7750796	located_end	7729796
	estimated_end	7750796		
CH322-39L04 2L	5393733	5414733	estimated_end	5393733
	located_end	5414733		
CH322-39L05 3L	9163889	9184889	located_end	9163889
	estimated_end	9184889		
CH322-39L06 2L	10884127	10905127	located_end	10884127
	estimated_end	10905127		
CH322-39L09 3L	19938854	19959854	estimated_end	19938854
	located_end	19959854		
CH322-39L12 3R	9857163	9878163	estimated_end	9857163
	located_end	9878163		
CH322-39L13 3R	18321408	18342408	estimated_end	18321408
	located_end	18342408		
CH322-39L19 X	14023163	14044163	estimated_end	14023163
	located_end	14044163		
CH322-39L20 2R	13962097	13983097	estimated_end	13962097
	located_end	13983097		
CH322-39L21 3R	9460491	9481491	estimated_end	9460491
	located_end	9481491		

CH322-39L23 2R	8320321	8341321	estimated_end	8320321
	located_end	8341321		
CH322-39L24 2L	21182663	21203663	estimated_end	21182663
	located_end	21203663		
CH322-39M05 3R	6862538	6883538	located_end	6862538
	estimated_end	6883538		
CH322-39M06 3L	17042301	17063301	estimated_end	17042301
	located_end	17063301		
CH322-39M09 2R	20024463	20045463	estimated_end	20024463
	located_end	20045463		
CH322-39M10 2R	8109741	8130741	estimated_end	8109741
	located_end	8130741		
CH322-39M13 2R	3683203	3704203	located_end	3683203
	estimated_end	3704203		
CH322-39M14 3R	102861	123861	located_end	102861
	estimated_end	123861		
CH322-39M15 2RHet	1041	22041	located_end	1041
			estimated_end	22041
CH322-39M17 4	455351	476351	estimated_end	455351
	located_end	476351		
CH322-39M21 3L	17679154	17700154	estimated_end	17679154
	located_end	17700154		
CH322-39N01 3RHet	1234294	1255294	located_end	1234294
	estimated_end	1255294		
CH322-39N03 3R	15970514	15991514	located_end	15970514
	estimated_end	15991514		
CH322-39N04 2R	5155338	5176338	located_end	5155338
	estimated_end	5176338		
CH322-39N06 3L	14827783	14848783	estimated_end	14827783
	located_end	14848783		
CH322-39N09 3R	10027671	10048671	estimated_end	10027671
	located_end	10048671		
CH322-39N12 3L	1078513	1099513	estimated_end	1078513
	located_end	1099513		
CH322-39N23 3R	18921693	18942693	located_end	18921693
	estimated_end	18942693		
CH322-39O01 3R	16577089	16598089	located_end	16577089
	estimated_end	16598089		
CH322-39O02 3R	11839242	11860242	estimated_end	11839242
	located_end	11860242		
CH322-39O03 3R	10961587	10982587	located_end	10961587
	estimated_end	10982587		
CH322-39O04 X	8460846	8481846	estimated_end	8460846
	located_end	8481846		
CH322-39O05 2R	20270616	20291616	estimated_end	20270616
	located_end	20291616		
CH322-39O06 X	5396968	5417968	located_end	5396968
	estimated_end	5417968		
CH322-39O13 2L	11772421	11793421	located_end	11772421
	estimated_end	11793421		
CH322-39O19 3R	7787737	7808737	estimated_end	7787737
	located_end	7808737		
CH322-39O20 X	9330345	9351345	located_end	9330345
	estimated_end	9351345		

CH322-39O23 3R	19731230	19752230	estimated_end	19731230
	located_end	19752230		
CH322-39O24 X	20313037	20334037	located_end	20313037
	estimated_end	20334037		
CH322-39P04 X	2892340	2913340	estimated_end	2892340
	located_end	2913340		
CH322-39P06 3R	18137525	18158525	located_end	18137525
	estimated_end	18158525		
CH322-39P07 3R	22385886	22406886	estimated_end	22385886
	located_end	22406886		
CH322-39P09 3L	10210936	10231936	estimated_end	10210936
	located_end	10231936		
CH322-39P10 2L	15075607	15096607	located_end	15075607
	estimated_end	15096607		
CH322-39P15 X	18299556	18320556	estimated_end	18299556
	located_end	18320556		
CH322-39P18 2R	2772420	2793420	located_end	2772420
	estimated_end	2793420		
CH322-39P19 2L	12798574	12819574	estimated_end	12798574
	located_end	12819574		
CH322-39P20 3R	5015678	5036678	estimated_end	5015678
	located_end	5036678		
CH322-39P23 2L	19860930	19881930	estimated_end	19860930
	located_end	19881930		
CH322-39P24 3LHet	1230546	1251546	estimated_end	1230546
	located_end	1251546		
CH322-40A02 2L	16771013	16792013	located_end	16771013
	estimated_end	16792013		
CH322-40A06 2L	187638	208638	located_end	187638
	estimated_end	208638		
CH322-40A07 2R	9671012	9692012	estimated_end	9671012
	located_end	9692012		
CH322-40A11 X	19438461	19459461	estimated_end	19438461
	located_end	19459461		
CH322-40A13 3R	10927731	10948731	estimated_end	10927731
	located_end	10948731		
CH322-40A19 3L	17914423	17935423	estimated_end	17914423
	located_end	17935423		
CH322-40A20 2L	14941050	14962050	located_end	14941050
	estimated_end	14962050		
CH322-40B04 2R	8934680	8955680	located_end	8934680
	estimated_end	8955680		
CH322-40B08 2L	3826567	3847567	estimated_end	3826567
	located_end	3847567		
CH322-40B10 X	1904963	1925963	estimated_end	1904963
	located_end	1925963		
CH322-40B14 2R	2430093	2451093	located_end	2430093
	estimated_end	2451093		
CH322-40B16 3R	12362013	12383013	located_end	12362013
	estimated_end	12383013		
CH322-40B17 2R	21045426	21066426	estimated_end	21045426
	located_end	21066426		
CH322-40B20 2L	1658134	1679134	estimated_end	1658134
	located_end	1679134		

CH322-40C07 3R	959024	980024	estimated_end	959024
	located_end	980024		
CH322-40C19 4	835686	856686	located_end	835686
	estimated_end	856686		
CH322-40C20 3R	2043752	2064752	located_end	2043752
	estimated_end	2064752		
CH322-40C22 3L	17087888	17108888	estimated_end	17087888
	located_end	17108888		
CH322-40C23 2R	20594605	20615605	estimated_end	20594605
	located_end	20615605		
CH322-40C24 2R	4976293	4997293	located_end	4976293
	estimated_end	4997293		
CH322-40D01 3R	27698699	27719699	located_end	27698699
	estimated_end	27719699		
CH322-40D04 2L	19226064	19247064	located_end	19226064
	estimated_end	19247064		
CH322-40D11 2R	7663406	7684406	located_end	7663406
	estimated_end	7684406		
CH322-40D16 3R	22625152	22646152	located_end	22625152
	estimated_end	22646152		
CH322-40D24 X	11195657	11216657	estimated_end	11195657
	located_end	11216657		
CH322-40E01 2L	11570501	11591501	estimated_end	11570501
	located_end	11591501		
CH322-40E02 3L	18479913	18500913	located_end	18479913
	estimated_end	18500913		
CH322-40E03 3R	19346963	19367963	located_end	19346963
	estimated_end	19367963		
CH322-40E06 3L	15765605	15786605	estimated_end	15765605
	located_end	15786605		
CH322-40E08 3R	23637623	23658623	located_end	23637623
	estimated_end	23658623		
CH322-40E09 2L	16858570	16879570	estimated_end	16858570
	located_end	16879570		
CH322-40E11 3L	1061671	1082671	estimated_end	1061671
	located_end	1082671		
CH322-40E14 3R	19470274	19491274	located_end	19470274
	estimated_end	19491274		
CH322-40E17 2R	5069583	5090583	located_end	5069583
	estimated_end	5090583		
CH322-40E18 3R	19822339	19843339	estimated_end	19822339
	located_end	19843339		
CH322-40E19 X	1053014	1074014	located_end	1053014
	estimated_end	1074014		
CH322-40E20 3R	15505562	15526562	estimated_end	15505562
	located_end	15526562		
CH322-40F01 X	12094494	12115494	estimated_end	12094494
	located_end	12115494		
CH322-40F04 3R	9820264	9841264	located_end	9820264
	estimated_end	9841264		
CH322-40F05 2L	18372712	18393712	estimated_end	18372712
	located_end	18393712		
CH322-40F06 X	6676706	6697706	located_end	6676706
	estimated_end	6697706		

CH322-40F09 3L	7143935	7164935	estimated_end	7143935
	located_end	7164935		
CH322-40F10 2R	12811770	12832770	estimated_end	12811770
	located_end	12832770		
CH322-40F15 2L	21563826	21584826	estimated_end	21563826
	located_end	21584826		
CH322-40F19 3R	17726116	17747116	estimated_end	17726116
	located_end	17747116		
CH322-40F21 3L	3874283	3895283	located_end	3874283
	estimated_end	3895283		
CH322-40F23 3R	27354493	27375493	located_end	27354493
	estimated_end	27375493		
CH322-40G04 X	4008850	4029850	estimated_end	4008850
	located_end	4029850		
CH322-40G05 3L	21544276	21565276	located_end	21544276
	estimated_end	21565276		
CH322-40G10 3L	12934104	12955104	located_end	12934104
	estimated_end	12955104		
CH322-40G11 3L	12587575	12608575	located_end	12587575
	estimated_end	12608575		
CH322-40G18 3L	4655077	4676077	estimated_end	4655077
	located_end	4676077		
CH322-40G21 X	805375	826375	estimated_end	805375
	located_end	826375		
CH322-40G22 2L	14933625	14954625	located_end	14933625
	estimated_end	14954625		
CH322-40G24 3R	26370134	26391134	estimated_end	26370134
	located_end	26391134		
CH322-40H03 2L	4322684	4343684	located_end	4322684
	estimated_end	4343684		
CH322-40H06 X	6227879	6248879	estimated_end	6227879
	located_end	6248879		
CH322-40H09 2L	17718540	17739540	estimated_end	17718540
	located_end	17739540		
CH322-40H10 2L	10573788	10594788	located_end	10573788
	estimated_end	10594788		
CH322-40H13 2L	7579894	7600894	estimated_end	7579894
	located_end	7600894		
CH322-40H14 2L	17152737	17173737	located_end	17152737
	estimated_end	17173737		
CH322-40H17 X	1053014	1074014	located_end	1053014
	estimated_end	1074014		
CH322-40H21 X	691254	712254	located_end	691254
	estimated_end	712254		
CH322-40H22 2R	18438547	18459547	estimated_end	18438547
	located_end	18459547		
CH322-40I01 ArmU	7309078	7330078	estimated_end	7309078
	located_end	7330078		
CH322-40I02 3R	27560886	27581886	located_end	27560886
	estimated_end	27581886		
CH322-40I03 3L	6319844	6340844	estimated_end	6319844
	located_end	6340844		
CH322-40I04 2L	17020000	17041000	estimated_end	17020000
	located_end	17041000		

CH322-40I05 3R	26166938	26187938	located_end	26166938
	estimated_end	26187938		
CH322-40I06 3L	19336244	19357244	located_end	19336244
	estimated_end	19357244		
CH322-40I10 X	13421548	13442548	estimated_end	13421548
	located_end	13442548		
CH322-40I11 2R	8460293	8481293	located_end	8460293
	estimated_end	8481293		
CH322-40I12 2R	9992139	10013139	estimated_end	9992139
	located_end	10013139		
CH322-40I17 3R	13771385	13792385	estimated_end	13771385
	located_end	13792385		
CH322-40I18 3L	20173495	20194495	located_end	20173495
	estimated_end	20194495		
CH322-40I19 2L	3172074	3193074	estimated_end	3172074
	located_end	3193074		
CH322-40I22 2R	11322456	11343456	estimated_end	11322456
	located_end	11343456		
CH322-40I23 3R	26092883	26113883	located_end	26092883
	estimated_end	26113883		
CH322-40J02 X	14500471	14521471	estimated_end	14500471
	located_end	14521471		
CH322-40J03 2R	13910618	13931618	located_end	13910618
	estimated_end	13931618		
CH322-40J05 2L	12939274	12960274	estimated_end	12939274
	located_end	12960274		
CH322-40J06 3L	22328564	22349564	estimated_end	22328564
	located_end	22349564		
CH322-40J07 X	9230887	9251887	estimated_end	9230887
	located_end	9251887		
CH322-40J13 2L	12935257	12956257	estimated_end	12935257
	located_end	12956257		
CH322-40J16 3R	10170824	10191824	located_end	10170824
	estimated_end	10191824		
CH322-40J23 2R	12785370	12806370	located_end	12785370
	estimated_end	12806370		
CH322-40J24 2R	2500528	2521528	estimated_end	2500528
	located_end	2521528		
CH322-40K16 3L	10405796	10426796	estimated_end	10405796
	located_end	10426796		
CH322-40K17 2L	2461230	2482230	located_end	2461230
	estimated_end	2482230		
CH322-40K22 2R	2731735	2752735	located_end	2731735
	estimated_end	2752735		
CH322-40K23 3R	9008767	9029767	located_end	9008767
	estimated_end	9029767		
CH322-40L02 2R	2731735	2752735	located_end	2731735
	estimated_end	2752735		
CH322-40L05 2R	7456552	7477552	located_end	7456552
	estimated_end	7477552		
CH322-40L09 3R	14492465	14513465	located_end	14492465
	estimated_end	14513465		
CH322-40L14 3R	2319318	2340318	located_end	2319318
	estimated_end	2340318		

CH322-40L15 X	5326053	5347053	estimated_end	5326053
	located_end	5347053		
CH322-40L17 ArmU	6620124	6641124	located_end	6620124
	estimated_end	6641124		
CH322-40L22 X	763975	784975	located_end	763975
	estimated_end	784975		
CH322-40L23 2R	15800961	15821961	estimated_end	15800961
	located_end	15821961		
CH322-40M10 3R	10927731	10948731	estimated_end	10927731
	located_end	10948731		
CH322-40M11 3R	13742333	13763333	estimated_end	13742333
	located_end	13763333		
CH322-40M19 3R	8969899	8990899	estimated_end	8969899
	located_end	8990899		
CH322-40M21 2L	15142539	15163539	estimated_end	15142539
	located_end	15163539		
CH322-40M22 3R	24085680	24106680	located_end	24085680
	estimated_end	24106680		
CH322-40N03 3L	8636184	8657184	estimated_end	8636184
	located_end	8657184		
CH322-40N05 3R	3552582	3573582	located_end	3552582
	estimated_end	3573582		
CH322-40N07 2L	2463284	2484284	estimated_end	2463284
	located_end	2484284		
CH322-40N12 X	18489054	18510054	estimated_end	18489054
	located_end	18510054		
CH322-40N15 2R	1994353	2015353	estimated_end	1994353
	located_end	2015353		
CH322-40N16 2R	19903038	19924038	estimated_end	19903038
	located_end	19924038		
CH322-40N18 2R	13035911	13056911	estimated_end	13035911
	located_end	13056911		
CH322-40N20 X	2686503	2707503	located_end	2686503
	estimated_end	2707503		
CH322-40N23 X	4545661	4566661	located_end	4545661
	estimated_end	4566661		
CH322-40O05 2R	4012925	4033925	estimated_end	4012925
	located_end	4033925		
CH322-40O07 3R	16801345	16822345	located_end	16801345
	estimated_end	16822345		
CH322-40O12 3R	2319318	2340318	located_end	2319318
	estimated_end	2340318		
CH322-40O13 2R	14443508	14464508	located_end	14443508
	estimated_end	14464508		
CH322-40O14 ArmU	5562404	5583404	estimated_end	5562404
	located_end	5583404		
CH322-40O17 X	17745586	17766586	located_end	17745586
	estimated_end	17766586		
CH322-40O20 2R	9530429	9551429	located_end	9530429
	estimated_end	9551429		
CH322-40O24 3L	9235079	9256079	estimated_end	9235079
	located_end	9256079		
CH322-40P02 3R	9919447	9940447	estimated_end	9919447
	located_end	9940447		

CH322-40P07 2R	5386422	5407422	located_end	5386422
	estimated_end	5407422		
CH322-40P08 3R	4951274	4972274	located_end	4951274
	estimated_end	4972274		
CH322-40P14 3R	3658891	3679891	estimated_end	3658891
	located_end	3679891		
CH322-40P16 X	14508467	14529467	estimated_end	14508467
	located_end	14529467		
CH322-40P20 3R	20292323	20313323	estimated_end	20292323
	located_end	20313323		
CH322-41A18 3R	12652155	12673155	estimated_end	12652155
	located_end	12673155		
CH322-41A19 X	13056547	13077547	located_end	13056547
	estimated_end	13077547		
CH322-41A20 ArmU	9654072	9675072	located_end	9654072
	estimated_end	9675072		
CH322-41A21 3L	11610080	11631080	estimated_end	11610080
	located_end	11631080		
CH322-41A23 3R	16998312	17019312	estimated_end	16998312
	located_end	17019312		
CH322-41A24 3L	18997924	19018924	estimated_end	18997924
	located_end	19018924		
CH322-41B01 3L	14916109	14937109	estimated_end	14916109
	located_end	14937109		
CH322-41B06 3R	23548933	23569933	estimated_end	23548933
	located_end	23569933		
CH322-41B07 3L	942396	963396	estimated_end	942396
	located_end	963396		
CH322-41B08 X	6286547	6307547	estimated_end	6286547
	located_end	6307547		
CH322-41B11 ArmU	5786882	5807882	located_end	5786882
	estimated_end	5807882		
CH322-41B12 3R	21303662	21324662	estimated_end	21303662
	located_end	21324662		
CH322-41B15 2R	5331301	5352301	located_end	5331301
	estimated_end	5352301		
CH322-41B16 3R	11757475	11778475	estimated_end	11757475
	located_end	11778475		
CH322-41B19 3R	23694492	23715492	located_end	23694492
	estimated_end	23715492		
CH322-41B22 2R	745405	766405	estimated_end	745405
	located_end	766405		
CH322-41B24 3R	23942084	23963084	estimated_end	23942084
	located_end	23963084		
CH322-41C08 3R	24830536	24851536	estimated_end	24830536
	located_end	24851536		
CH322-41C09 3L	19088400	19109400	located_end	19088400
	estimated_end	19109400		
CH322-41C11 2R	24259	45259	located_end	24259
	estimated_end	45259		
CH322-41C13 2L	7652056	7673056	estimated_end	7652056
	located_end	7673056		
CH322-41C16 X	10840348	10861348	located_end	10840348
	estimated_end	10861348		

CH322-41C21 3R	7067874	7088874	estimated_end	7067874
	located_end	7088874		
CH322-41C24 3L	14320672	14341672	located_end	14320672
	estimated_end	14341672		
CH322-41D02 3R	2314902	2335902	estimated_end	2314902
	located_end	2335902		
CH322-41D05 2L	18452329	18473329	estimated_end	18452329
	located_end	18473329		
CH322-41D06 3L	22712330	22733330	located_end	22712330
	estimated_end	22733330		
CH322-41D07 3L	2657562	2678562	estimated_end	2657562
	located_end	2678562		
CH322-41D09 3R	23036230	23057230	located_end	23036230
	estimated_end	23057230		
CH322-41D10 3R	21258890	21279890	estimated_end	21258890
	located_end	21279890		
CH322-41D12 X	15870997	15891997	estimated_end	15870997
	located_end	15891997		
CH322-41D13 3R	8684086	8705086	located_end	8684086
	estimated_end	8705086		
CH322-41D14 2R	16037162	16058162	estimated_end	16037162
	located_end	16058162		
CH322-41D16 2R	405959	426959	estimated_end	405959
	located_end	426959		
CH322-41D17 X	3895990	3916990	located_end	3895990
	estimated_end	3916990		
CH322-41D23 2L	9868517	9889517	located_end	9868517
	estimated_end	9889517		
CH322-41E06 2R	8986826	9007826	located_end	8986826
	estimated_end	9007826		
CH322-41E15 3RHet	1822558	1843558	located_end	1822558
	estimated_end	1843558		
CH322-41E19 X	19599625	19620625	estimated_end	19599625
	located_end	19620625		
CH322-41E24 3R	1633859	1654859	located_end	1633859
	estimated_end	1654859		
CH322-41F03 2R	11387218	11408218	located_end	11387218
	estimated_end	11408218		
CH322-41F14 2R	20563850	20584850	located_end	20563850
	estimated_end	20584850		
CH322-41F16 2R	17823182	17844182	estimated_end	17823182
	located_end	17844182		
CH322-41F18 2L	18546906	18567906	estimated_end	18546906
	located_end	18567906		
CH322-41F20 2R	432865	453865	located_end	432865
	estimated_end	453865		
CH322-41F23 3L	19545500	19566500	estimated_end	19545500
	located_end	19566500		
CH322-41F24 3R	4947606	4968606	estimated_end	4947606
	located_end	4968606		
CH322-41G03 ArmU	6186432	6207432	located_end	6186432
	estimated_end	6207432		
CH322-41G13 ArmU	2206519	2227519	located_end	2206519
	estimated_end	2227519		

CH322-41G15 X	10518614	10539614	located_end 10518614
	estimated_end	10539614	
CH322-41G23 X	8951303	8972303	estimated_end 8951303
	located_end	8972303	
CH322-41G24 3L	3810355	3831355	located_end 3810355
	estimated_end	3831355	
CH322-41H03 3L	18012546	18033546	located_end 18012546
	estimated_end	18033546	
CH322-41H05 X	20968363	20989363	located_end 20968363
	estimated_end	20989363	
CH322-41H07 3R	8341584	8362584	located_end 8341584
	estimated_end	8362584	
CH322-41H11 3L	20021603	20042603	located_end 20021603
	estimated_end	20042603	
CH322-41H12 3L	14243544	14264544	located_end 14243544
	estimated_end	14264544	
CH322-41H13 3R	7555414	7576414	estimated_end 7555414
	located_end	7576414	
CH322-41H14 3R	11954045	11975045	located_end 11954045
	estimated_end	11975045	
CH322-41H15 3L	14997698	15018698	located_end 14997698
	estimated_end	15018698	
CH322-41H16 3R	6235445	6256445	estimated_end 6235445
	located_end	6256445	
CH322-41H17 3R	24332491	24353491	located_end 24332491
	estimated_end	24353491	
CH322-41H18 3R	25947812	25968812	located_end 25947812
	estimated_end	25968812	
CH322-41H19 2L	2790432	2811432	estimated_end 2790432
	located_end	2811432	
CH322-41H21 3L	15240520	15261520	located_end 15240520
	estimated_end	15261520	
CH322-41I16 X	1390812	1411812	located_end 1390812
	estimated_end	1411812	
CH322-41I23 3R	15475859	15496859	estimated_end 15475859
	located_end	15496859	
CH322-41J07 2L	21187027	21208027	estimated_end 21187027
	located_end	21208027	
CH322-41J10 3L	16930760	16951760	located_end 16930760
	estimated_end	16951760	
CH322-41J16 3R	17622567	17643567	estimated_end 17622567
	located_end	17643567	
CH322-41J20 2RHet	913868	934868	located_end 913868
	estimated_end	934868	
CH322-41J21 3R	13564313	13585313	estimated_end 13564313
	located_end	13585313	
CH322-41J23 3R	26547378	26568378	estimated_end 26547378
	located_end	26568378	
CH322-41K02 3L	18748741	18769741	located_end 18748741
	estimated_end	18769741	
CH322-41K11 2L	17968137	17989137	estimated_end 17968137
	located_end	17989137	
CH322-41K13 2R	19783020	19804020	located_end 19783020
	estimated_end	19804020	

CH322-41K18 X	1295474	1316474	estimated_end	1295474
	located_end	1316474		
CH322-41K24 2R	8609404	8630404	estimated_end	8609404
	located_end	8630404		
CH322-41L05 2L	10620668	10641668	estimated_end	10620668
	located_end	10641668		
CH322-41L06 3L	5300381	5321381	located_end	5300381
	estimated_end	5321381		
CH322-41L07 3L	1735104	1756104	estimated_end	1735104
	located_end	1756104		
CH322-41L09 3R	8205392	8226392	estimated_end	8205392
	located_end	8226392		
CH322-41L10 3R	24417547	24438547	estimated_end	24417547
	located_end	24438547		
CH322-41L11 3R	21616937	21637937	located_end	21616937
	estimated_end	21637937		
CH322-41L17 3L	3183548	3204548	located_end	3183548
	estimated_end	3204548		
CH322-41L18 3R	24616769	24637769	located_end	24616769
	estimated_end	24637769		
CH322-41L21 3L	9905143	9926143	located_end	9905143
	estimated_end	9926143		
CH322-41L22 X	5084513	5105513	estimated_end	5084513
	located_end	5105513		
CH322-41L23 2R	6909792	6930792	estimated_end	6909792
	located_end	6930792		
CH322-41M07 X	20567460	20588460	estimated_end	20567460
	located_end	20588460		
CH322-41M08 2R	6914801	6935801	estimated_end	6914801
	located_end	6935801		
CH322-41M11 X	18671864	18692864	located_end	18671864
	estimated_end	18692864		
CH322-41M20 3R	5546008	5567008	located_end	5546008
	estimated_end	5567008		
CH322-41M22 2R	4150281	4171281	located_end	4150281
	estimated_end	4171281		
CH322-41M24 3R	3007703	3028703	located_end	3007703
	estimated_end	3028703		
CH322-41N04 2L	9224183	9245183	estimated_end	9224183
	located_end	9245183		
CH322-41N05 3L	8640015	8661015	estimated_end	8640015
	located_end	8661015		
CH322-41N08 X	2003655	2024655	located_end	2003655
	estimated_end	2024655		
CH322-41N10 2L	13325085	13346085	located_end	13325085
	estimated_end	13346085		
CH322-41N13 X	18110744	18131744	estimated_end	18110744
	located_end	18131744		
CH322-41N15 3L	3242420	3263420	estimated_end	3242420
	located_end	3263420		
CH322-41N18 2R	3571317	3592317	located_end	3571317
	estimated_end	3592317		
CH322-41N20 2R	999109	1020109	located_end	999109
	estimated_end	1020109		

CH322-41N24 3L	15654740	15675740	estimated_end	15654740
	located_end	15675740		
CH322-41O02 X	4142648	4163648	located_end	4142648
	estimated_end	4163648		
CH322-41O07 X	20366541	20387541	located_end	20366541
	estimated_end	20387541		
CH322-41O08 2L	5608038	5629038	estimated_end	5608038
	located_end	5629038		
CH322-41O09 X	8671025	8692025	estimated_end	8671025
	located_end	8692025		
CH322-41O21 3R	24263811	24284811	located_end	24263811
	estimated_end	24284811		
CH322-41O23 2R	13485990	13506990	estimated_end	13485990
	located_end	13506990		
CH322-41P05 4	413200	434200	located_end	413200
	estimated_end	434200		
CH322-41P06 2L	4599072	4620072	located_end	4599072
	estimated_end	4620072		
CH322-41P07 3R	3415761	3436761	estimated_end	3415761
	located_end	3436761		
CH322-41P09 2RHet	1924401	1945401	located_end	1924401
	estimated_end	1945401		
CH322-41P10 3R	24632956	24653956	located_end	24632956
	estimated_end	24653956		
CH322-41P11 2L	12123709	12144709	located_end	12123709
	estimated_end	12144709		
CH322-41P12 2L	7836786	7857786	estimated_end	7836786
	located_end	7857786		
CH322-41P13 2L	3956087	3977087	estimated_end	3956087
	located_end	3977087		
CH322-41P17 3R	23462064	23483064	estimated_end	23462064
	located_end	23483064		
CH322-41P19 2R	6097515	6118515	located_end	6097515
	estimated_end	6118515		
CH322-41P21 2L	7354664	7375664	located_end	7354664
	estimated_end	7375664		
CH322-42A10 3LHet	2455316	2476316	located_end	2455316
	estimated_end	2476316		
CH322-42A24 2L	1175290	1196290	estimated_end	1175290
	located_end	1196290		
CH322-42B03 2L	6234491	6255491	estimated_end	6234491
	located_end	6255491		
CH322-42B07 2R	17980845	18001845	estimated_end	17980845
	located_end	18001845		
CH322-42B08 3R	1412628	1433628	located_end	1412628
	estimated_end	1433628		
CH322-42B10 3LHet	1629467	1650467	located_end	1629467
	estimated_end	1650467		
CH322-42B13 3R	10927470	10948470	estimated_end	10927470
	located_end	10948470		
CH322-42B16 3R	12098658	12119658	estimated_end	12098658
	located_end	12119658		
CH322-42B18 2L	17581953	17602953	located_end	17581953
	estimated_end	17602953		

CH322-42B21 3L	23003084	23024084	estimated_end	23003084
	located_end	23024084		
CH322-42B22 2R	15695235	15716235	located_end	15695235
	estimated_end	15716235		
CH322-42C03 2L	15238595	15259595	located_end	15238595
	estimated_end	15259595		
CH322-42C06 2L	586830	607830	estimated_end	586830
	located_end	607830		
CH322-42C09 2L	17010499	17031499	estimated_end	17010499
	located_end	17031499		
CH322-42C16 ArmU	3685518	3706518	estimated_end	3685518
	located_end	3706518		
CH322-42C17 3L	1804862	1825862	located_end	1804862
	estimated_end	1825862		
CH322-42C19 3L	10022289	10043289	estimated_end	10022289
	located_end	10043289		
CH322-42C20 X	17696175	17717175	estimated_end	17696175
	located_end	17717175		
CH322-42C21 3L	5432500	5453500	located_end	5432500
	estimated_end	5453500		
CH322-42C23 2L	1998455	2019455	located_end	1998455
	estimated_end	2019455		
CH322-42C24 3L	7132630	7153630	located_end	7132630
	estimated_end	7153630		
CH322-42D05 2L	10780659	10801659	estimated_end	10780659
	located_end	10801659		
CH322-42D13 3L	2034764	2055764	located_end	2034764
	estimated_end	2055764		
CH322-42D14 ArmU	9121190	9142190	located_end	9121190
	estimated_end	9142190		
CH322-42D22 3L	14742852	14763852	estimated_end	14742852
	located_end	14763852		
CH322-42D23 3LHet	2542169	2563169	located_end	2542169
	estimated_end	2563169		
CH322-42E04 3R	25636758	25657758	estimated_end	25636758
	located_end	25657758		
CH322-42E08 2L	3574576	3595576	located_end	3574576
	estimated_end	3595576		
CH322-42E11 3L	3778571	3799571	located_end	3778571
	estimated_end	3799571		
CH322-42E15 3L	17849137	17870137	located_end	17849137
	estimated_end	17870137		
CH322-42E18 2L	19889282	19910282	estimated_end	19889282
	located_end	19910282		
CH322-42E19 3R	19985159	20006159	estimated_end	19985159
	located_end	20006159		
CH322-42E20 3R	18548987	18569987	located_end	18548987
	estimated_end	18569987		
CH322-42E21 X	13538617	13559617	located_end	13538617
	estimated_end	13559617		
CH322-42E22 3L	17155686	17176686	estimated_end	17155686
	located_end	17176686		
CH322-42F02 3R	5970562	5991562	estimated_end	5970562
	located_end	5991562		

CH322-42F07 2R	19569062	19590062	located_end	19569062
	estimated_end	19590062		
CH322-42F08 3L	17056863	17077863	located_end	17056863
	estimated_end	17077863		
CH322-42F11 2L	128168	149168	located_end	128168
	estimated_end	149168		
CH322-42F13 3R	19036238	19057238	located_end	19036238
	estimated_end	19057238		
CH322-42F16 3L	12039222	12060222	located_end	12039222
	estimated_end	12060222		
CH322-42F18 3R	18000077	18021077	estimated_end	18000077
	located_end	18021077		
CH322-42F20 3R	22083509	22104509	located_end	22083509
	estimated_end	22104509		
CH322-42F22 2L	11994128	12015128	estimated_end	11994128
	located_end	12015128		
CH322-42G05 2R	4641899	4662899	estimated_end	4641899
	located_end	4662899		
CH322-42G14 2R	938402	959402	estimated_end	938402
	located_end	959402		
CH322-42G15 2L	21143170	21164170	estimated_end	21143170
	located_end	21164170		
CH322-42G16 3L	961063	982063	located_end	961063
	estimated_end	982063		
CH322-42G17 3L	12415494	12436494	located_end	12415494
	estimated_end	12436494		
CH322-42G20 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-42G21 2L	7669203	7690203	located_end	7669203
	estimated_end	7690203		
CH322-42H01 2R	1771056	1792056	located_end	1771056
	estimated_end	1792056		
CH322-42H03 2R	11504606	11525606	located_end	11504606
	estimated_end	11525606		
CH322-42H06 X	18506856	18527856	estimated_end	18506856
	located_end	18527856		
CH322-42H07 3L	16485029	16506029	estimated_end	16485029
	located_end	16506029		
CH322-42H08 2R	3661164	3682164	located_end	3661164
	estimated_end	3682164		
CH322-42H09 X	15360503	15381503	estimated_end	15360503
	located_end	15381503		
CH322-42H10 X	1055272	1076272	located_end	1055272
	estimated_end	1076272		
CH322-42H16 3L	12008469	12029469	estimated_end	12008469
	located_end	12029469		
CH322-42H18 3L	6176715	6197715	estimated_end	6176715
	located_end	6197715		
CH322-42H19 3R	13169320	13190320	estimated_end	13169320
	located_end	13190320		
CH322-42H21 3R	2011105	2032105	located_end	2011105
	estimated_end	2032105		
CH322-42H24 3L	20937620	20958620	estimated_end	20937620
	located_end	20958620		

CH322-42I02 2R	2324746	2345746	estimated_end	2324746
	located_end	2345746		
CH322-42I03 X	12837801	12858801	located_end	12837801
	estimated_end	12858801		
CH322-42I06 X	21004598	21025598	located_end	21004598
	estimated_end	21025598		
CH322-42I08 X	3116135	3137135	estimated_end	3116135
	located_end	3137135		
CH322-42I09 3R	26597270	26618270	estimated_end	26597270
	located_end	26618270		
CH322-42I10 ArmU	2566079	2587079	located_end	2566079
	estimated_end	2587079		
CH322-42I11 3L	18421383	18442383	located_end	18421383
	estimated_end	18442383		
CH322-42I12 X	1426414	1447414	located_end	1426414
	estimated_end	1447414		
CH322-42I13 3R	4216117	4237117	located_end	4216117
	estimated_end	4237117		
CH322-42I16 3R	3590716	3611716	estimated_end	3590716
	located_end	3611716		
CH322-42I17 2R	20423793	20444793	located_end	20423793
	estimated_end	20444793		
CH322-42I18 2L	4165507	4186507	estimated_end	4165507
	located_end	4186507		
CH322-42I20 2L	11475477	11496477	located_end	11475477
	estimated_end	11496477		
CH322-42I23 2R	14210532	14231532	located_end	14210532
	estimated_end	14231532		
CH322-42J01 3R	5340088	5361088	located_end	5340088
	estimated_end	5361088		
CH322-42J02 2R	16186612	16207612	located_end	16186612
	estimated_end	16207612		
CH322-42J05 X	8846707	8867707	estimated_end	8846707
	located_end	8867707		
CH322-42J10 3R	735958	756958	located_end	735958
	estimated_end	756958		
CH322-42J12 2R	19360262	19381262	located_end	19360262
	estimated_end	19381262		
CH322-42J13 3R	12687121	12708121	located_end	12687121
	estimated_end	12708121		
CH322-42J14 X	3807704	3828704	estimated_end	3807704
	located_end	3828704		
CH322-42J15 3L	10724439	10745439	estimated_end	10724439
	located_end	10745439		
CH322-42J16 2R	10195211	10216211	located_end	10195211
	estimated_end	10216211		
CH322-42J17 3L	3178161	3199161	estimated_end	3178161
	located_end	3199161		
CH322-42J21 3R	16489402	16510402	located_end	16489402
	estimated_end	16510402		
CH322-42K03 2R	4980310	5001310	estimated_end	4980310
	located_end	5001310		
CH322-42K05 2L	15217418	15238418	estimated_end	15217418
	located_end	15238418		

CH322-42K09 3L	20744336	20765336	located_end	20744336
	estimated_end	20765336		
CH322-42K10 2L	20216038	20237038	estimated_end	20216038
	located_end	20237038		
CH322-42K11 2L	3608552	3629552	located_end	3608552
	estimated_end	3629552		
CH322-42K18 3L	16684531	16705531	estimated_end	16684531
	located_end	16705531		
CH322-42K19 3L	14635763	14656763	estimated_end	14635763
	located_end	14656763		
CH322-42K23 X	16969575	16990575	located_end	16969575
	estimated_end	16990575		
CH322-42K24 2R	9640906	9661906	located_end	9640906
	estimated_end	9661906		
CH322-42L04 3L	4583684	4604684	estimated_end	4583684
	located_end	4604684		
CH322-42L06 X	3630327	3651327	located_end	3630327
	estimated_end	3651327		
CH322-42L15 3R	3172158	3193158	estimated_end	3172158
	located_end	3193158		
CH322-42L17 2L	10006370	10027370	located_end	10006370
	estimated_end	10027370		
CH322-42L20 2L	18862791	18883791	estimated_end	18862791
	located_end	18883791		
CH322-42L23 3RHet	1630445	1651445	located_end	1630445
	estimated_end	1651445		
CH322-42L24 3R	20396901	20417901	estimated_end	20396901
	located_end	20417901		
CH322-42M05 2L	16679578	16700578	located_end	16679578
	estimated_end	16700578		
CH322-42M06 X	5997097	6018097	estimated_end	5997097
	located_end	6018097		
CH322-42M07 2R	12811967	12832967	located_end	12811967
	estimated_end	12832967		
CH322-42M08 3L	22635091	22656091	estimated_end	22635091
	located_end	22656091		
CH322-42M09 3L	11398495	11419495	estimated_end	11398495
	located_end	11419495		
CH322-42M10 2R	14285406	14306406	located_end	14285406
	estimated_end	14306406		
CH322-42M15 3R	19826648	19847648	estimated_end	19826648
	located_end	19847648		
CH322-42M16 2R	6671977	6692977	estimated_end	6671977
	located_end	6692977		
CH322-42M17 3L	19210475	19231475	located_end	19210475
	estimated_end	19231475		
CH322-42M18 3R	12017750	12038750	estimated_end	12017750
	located_end	12038750		
CH322-42N02 3L	2643735	2664735	located_end	2643735
	estimated_end	2664735		
CH322-42N04 2R	14151705	14172705	located_end	14151705
	estimated_end	14172705		
CH322-42N19 3R	12548958	12569958	estimated_end	12548958
	located_end	12569958		

CH322-42N20 2L	1885586	1906586	estimated_end	1885586
	located_end	1906586		
CH322-42N21 2R	2382633	2403633	estimated_end	2382633
	located_end	2403633		
CH322-42N23 X	3502468	3523468	estimated_end	3502468
	located_end	3523468		
CH322-42N24 3RHet	756105	777105	estimated_end	756105
	located_end	777105		
CH322-42O04 X	19551308	19572308	located_end	19551308
	estimated_end	19572308		
CH322-42O05 2L	3167888	3188888	located_end	3167888
	estimated_end	3188888		
CH322-42O06 3L	3492581	3513581	estimated_end	3492581
	located_end	3513581		
CH322-42O08 3L	19418038	19439038	located_end	19418038
	estimated_end	19439038		
CH322-42O10 X	12723490	12744490	estimated_end	12723490
	located_end	12744490		
CH322-42O14 X	13644531	13665531	estimated_end	13644531
	located_end	13665531		
CH322-42O15 3R	9350960	9371960	located_end	9350960
	estimated_end	9371960		
CH322-42O16 2R	15083435	15104435	located_end	15083435
	estimated_end	15104435		
CH322-42O21 2R	7577097	7598097	estimated_end	7577097
	located_end	7598097		
CH322-42O23 3R	26337675	26358675	estimated_end	26337675
	located_end	26358675		
CH322-42O24 3R	4985164	5006164	estimated_end	4985164
	located_end	5006164		
CH322-42P06 3L	16975795	16996795	estimated_end	16975795
	located_end	16996795		
CH322-42P09 3R	12218197	12239197	estimated_end	12218197
	located_end	12239197		
CH322-42P13 2L	22915537	22936537	located_end	22915537
	estimated_end	22936537		
CH322-42P15 2L	1472521	1493521	located_end	1472521
	estimated_end	1493521		
CH322-42P16 3L	16622076	16643076	located_end	16622076
	estimated_end	16643076		
CH322-42P17 X	9433922	9454922	estimated_end	9433922
	located_end	9454922		
CH322-42P18 2R	1837720	1858720	estimated_end	1837720
	located_end	1858720		
CH322-42P23 2L	6736917	6757917	located_end	6736917
	estimated_end	6757917		
CH322-43A13 2R	14784859	14805859	estimated_end	14784859
	located_end	14805859		
CH322-43A14 2R	7837053	7858053	located_end	7837053
	estimated_end	7858053		
CH322-43A16 X	6046986	6067986	located_end	6046986
	estimated_end	6067986		
CH322-43A19 2RHet	1119743	1140743	estimated_end	1119743
	located_end	1140743		

CH322-43B11 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-43B13 X	13792866	13813866	located_end	13792866
	estimated_end	13813866		
CH322-43B14 2L	7515959	7536959	located_end	7515959
	estimated_end	7536959		
CH322-43B15 3R	14886219	14907219	estimated_end	14886219
	located_end	14907219		
CH322-43B17 X	1472991	1493991	located_end	1472991
	estimated_end	1493991		
CH322-43B19 ArmU	5728404	5749404	estimated_end	5728404
	located_end	5749404		
CH322-43C15 3R	350936	371936	located_end	350936
	estimated_end	371936		
CH322-43C16 X	12442855	12463855	estimated_end	12442855
	located_end	12463855		
CH322-43D08 2R	12604442	12625442	located_end	12604442
	estimated_end	12625442		
CH322-43D13 3L	1378070	1399070	located_end	1378070
	estimated_end	1399070		
CH322-43E04 2L	6575047	6596047	estimated_end	6575047
	located_end	6596047		
CH322-43E05 2R	18063521	18084521	estimated_end	18063521
	located_end	18084521		
CH322-43E09 2R	5255193	5276193	located_end	5255193
	estimated_end	5276193		
CH322-43E11 2R	8831027	8852027	located_end	8831027
	estimated_end	8852027		
CH322-43E12 3L	20321104	20342104	estimated_end	20321104
	located_end	20342104		
CH322-43E15 3L	22069036	22090036	located_end	22069036
	estimated_end	22090036		
CH322-43E20 2R	9374737	9395737	estimated_end	9374737
	located_end	9395737		
CH322-43E22 3L	4425718	4446718	located_end	4425718
	estimated_end	4446718		
CH322-43F05 X	13236845	13257845	estimated_end	13236845
	located_end	13257845		
CH322-43F07 ArmU	8758847	8779847	estimated_end	8758847
	located_end	8779847		
CH322-43F11 3R	14026179	14047179	estimated_end	14026179
	located_end	14047179		
CH322-43F12 XHet	45441	66441	located_end	45441
	estimated_end	66441		
CH322-43F15 3L	13676218	13697218	estimated_end	13676218
	located_end	13697218		
CH322-43G08 3R	5455684	5476684	located_end	5455684
	estimated_end	5476684		
CH322-43G13 2R	11561564	11582564	estimated_end	11561564
	located_end	11582564		
CH322-43G14 2L	8519726	8540726	estimated_end	8519726
	located_end	8540726		
CH322-43G15 X	8987029	9008029	located_end	8987029
	estimated_end	9008029		

CH322-43G16 2L	2067272	2088272	estimated_end	2067272
	located_end	2088272		
CH322-43G19 X	14332507	14353507	located_end	14332507
	estimated_end	14353507		
CH322-43G24 2R	14254572	14275572	estimated_end	14254572
	located_end	14275572		
CH322-43H15 X	15345608	15366608	estimated_end	15345608
	located_end	15366608		
CH322-43H16 3L	20458460	20479460	located_end	20458460
	estimated_end	20479460		
CH322-43H17 3L	21236348	21257348	estimated_end	21236348
	located_end	21257348		
CH322-43H19 X	11423424	11444424	estimated_end	11423424
	located_end	11444424		
CH322-43H21 3L	8124233	8145233	estimated_end	8124233
	located_end	8145233		
CH322-43I08 3L	7178423	7199423	estimated_end	7178423
	located_end	7199423		
CH322-43I12 X	8696366	8717366	estimated_end	8696366
	located_end	8717366		
CH322-43I13 3R	8542795	8563795	located_end	8542795
	estimated_end	8563795		
CH322-43I15 3R	26632537	26653537	estimated_end	26632537
	located_end	26653537		
CH322-43J05 2R	18104458	18125458	located_end	18104458
	estimated_end	18125458		
CH322-43J07 3R	3808596	3829596	located_end	3808596
	estimated_end	3829596		
CH322-43J10 3L	2072675	2093675	located_end	2072675
	estimated_end	2093675		
CH322-43J15 3R	20320472	20341472	estimated_end	20320472
	located_end	20341472		
CH322-43J16 3R	941567	962567	estimated_end	941567
	located_end	962567		
CH322-43K04 3R	7479461	7500461	located_end	7479461
	estimated_end	7500461		
CH322-43K05 X	11709120	11730120	located_end	11709120
	estimated_end	11730120		
CH322-43K06 3R	1745185	1766185	located_end	1745185
	estimated_end	1766185		
CH322-43K14 2R	10064885	10085885	located_end	10064885
	estimated_end	10085885		
CH322-43K20 3R	3869535	3890535	estimated_end	3869535
	located_end	3890535		
CH322-43L01 ArmU	8720677	8741677	estimated_end	8720677
	located_end	8741677		
CH322-43L14 3L	6372013	6393013	estimated_end	6372013
	located_end	6393013		
CH322-43L15 2L	5598370	5619370	located_end	5598370
	estimated_end	5619370		
CH322-43L17 X	20012848	20033848	estimated_end	20012848
	located_end	20033848		
CH322-43L19 ArmU	1648268	1669268	estimated_end	1648268
	located_end	1669268		

CH322-43L20 2R	14798567	14819567	estimated_end	14798567
	located_end	14819567		
CH322-43L24 2L	17862483	17883483	estimated_end	17862483
	located_end	17883483		
CH322-43M06 X	7230462	7251462	located_end	7230462
	estimated_end	7251462		
CH322-43M07 2L	5963346	5984346	estimated_end	5963346
	located_end	5984346		
CH322-43M10 X	-14061	6939	estimated_end	-14061
	located_end	6939		
CH322-43M12 3R	26849265	26870265	estimated_end	26849265
	located_end	26870265		
CH322-43M14 3R	21702317	21723317	located_end	21702317
	estimated_end	21723317		
CH322-43M15 2R	14797584	14818584	estimated_end	14797584
	located_end	14818584		
CH322-43M16 ArmU	76959 97959		located_end	76959
			estimated_end	97959
CH322-43N05 3R	26064754	26085754	estimated_end	26064754
	located_end	26085754		
CH322-43N12 3L	12244897	12265897	estimated_end	12244897
	located_end	12265897		
CH322-43N14 X	10317765	10338765	estimated_end	10317765
	located_end	10338765		
CH322-43N15 2R	11966637	11987637	estimated_end	11966637
	located_end	11987637		
CH322-43N19 3L	21238689	21259689	estimated_end	21238689
	located_end	21259689		
CH322-43O10 3L	8279644	8300644	estimated_end	8279644
	located_end	8300644		
CH322-43O11 3L	23479184	23500184	estimated_end	23479184
	located_end	23500184		
CH322-43O13 X	10165434	10186434	estimated_end	10165434
	located_end	10186434		
CH322-43O15 X	11176290	11197290	located_end	11176290
	estimated_end	11197290		
CH322-43O16 2L	8874693	8895693	estimated_end	8874693
	located_end	8895693		
CH322-43O23 X	13400246	13421246	located_end	13400246
	estimated_end	13421246		
CH322-43P03 3R	11103988	11124988	located_end	11103988
	estimated_end	11124988		
CH322-43P05 2L	1645838	1666838	estimated_end	1645838
	located_end	1666838		
CH322-43P08 3L	906707	927707	located_end	906707
	estimated_end	927707		
CH322-43P11 2L	11859506	11880506	estimated_end	11859506
	located_end	11880506		
CH322-43P19 2R	3449680	3470680	located_end	3449680
	estimated_end	3470680		
CH322-43P20 2L	22282802	22303802	located_end	22282802
	estimated_end	22303802		
CH322-43P21 2L	17268353	17289353	estimated_end	17268353
	located_end	17289353		

CH322-44A01 2R	10828508	10849508	located_end	10828508
	estimated_end	10849508		
CH322-44A03 3L	19263209	19284209	estimated_end	19263209
	located_end	19284209		
CH322-44A05 X	6814526	6835526	estimated_end	6814526
	located_end	6835526		
CH322-44A14 3L	7900327	7921327	estimated_end	7900327
	located_end	7921327		
CH322-44A16 2L	6311015	6332015	located_end	6311015
	estimated_end	6332015		
CH322-44A19 2R	10685638	10706638	located_end	10685638
	estimated_end	10706638		
CH322-44A20 3L	22667090	22688090	estimated_end	22667090
	located_end	22688090		
CH322-44A21 3R	8920104	8941104	located_end	8920104
	estimated_end	8941104		
CH322-44A24 ArmU	6401221	6422221	located_end	6401221
	estimated_end	6422221		
CH322-44B04 2L	6159564	6180564	located_end	6159564
	estimated_end	6180564		
CH322-44B08 2L	4299003	4320003	estimated_end	4299003
	located_end	4320003		
CH322-44B10 X	1276854	1297854	estimated_end	1276854
	located_end	1297854		
CH322-44B17 2L	17483838	17504838	estimated_end	17483838
	located_end	17504838		
CH322-44B20 X	4258404	4279404	estimated_end	4258404
	located_end	4279404		
CH322-44B24 3R	20540175	20561175	estimated_end	20540175
	located_end	20561175		
CH322-44C04 2RHet	672930	693930	located_end	672930
	estimated_end	693930		
CH322-44C09 ArmU	8680687	8701687	estimated_end	8680687
	located_end	8701687		
CH322-44C10 3L	9993487	10014487	located_end	9993487
	estimated_end	10014487		
CH322-44C11 2R	13519004	13540004	located_end	13519004
	estimated_end	13540004		
CH322-44C14 3R	8763837	8784837	estimated_end	8763837
	located_end	8784837		
CH322-44C16 3R	452218	473218	estimated_end	452218
	located_end	473218		
CH322-44C18 3R	19637431	19658431	located_end	19637431
	estimated_end	19658431		
CH322-44C19 2L	21821033	21842033	located_end	21821033
	estimated_end	21842033		
CH322-44C20 3L	22948116	22969116	located_end	22948116
	estimated_end	22969116		
CH322-44C23 2R	9665776	9686776	estimated_end	9665776
	located_end	9686776		
CH322-44C24 3L	9106454	9127454	located_end	9106454
	estimated_end	9127454		
CH322-44D06 3R	20535299	20556299	located_end	20535299
	estimated_end	20556299		

CH322-44D08 3R	23564802	23585802	located_end	23564802
	estimated_end	23585802		
CH322-44D09 3L	10603808	10624808	estimated_end	10603808
	located_end	10624808		
CH322-44D12 X	2968808	2989808	estimated_end	2968808
	located_end	2989808		
CH322-44D16 3R	9252901	9273901	located_end	9252901
	estimated_end	9273901		
CH322-44D19 2L	12549538	12570538	estimated_end	12549538
	located_end	12570538		
CH322-44D21 3L	20560874	20581874	located_end	20560874
	estimated_end	20581874		
CH322-44D22 2RHet	1442373	1463373	estimated_end	1442373
	located_end	1463373		
CH322-44D24 X	11668599	11689599	estimated_end	11668599
	located_end	11689599		
CH322-44E01 3R	24886366	24907366	estimated_end	24886366
	located_end	24907366		
CH322-44E02 X	21421639	21442639	located_end	21421639
	estimated_end	21442639		
CH322-44E05 3L	5982203	6003203	estimated_end	5982203
	located_end	6003203		
CH322-44E06 3R	2136127	2157127	estimated_end	2136127
	located_end	2157127		
CH322-44E09 2R	15398748	15419748	estimated_end	15398748
	located_end	15419748		
CH322-44E11 3L	14625377	14646377	estimated_end	14625377
	located_end	14646377		
CH322-44E12 2L	15539899	15560899	estimated_end	15539899
	located_end	15560899		
CH322-44E13 3L	5968926	5989926	estimated_end	5968926
	located_end	5989926		
CH322-44E15 2L	20844316	20865316	estimated_end	20844316
	located_end	20865316		
CH322-44E16 2L	8919594	8940594	estimated_end	8919594
	located_end	8940594		
CH322-44E17 2L	9388657	9409657	located_end	9388657
	estimated_end	9409657		
CH322-44E19 X	14454130	14475130	estimated_end	14454130
	located_end	14475130		
CH322-44E22 3L	20771003	20792003	located_end	20771003
	estimated_end	20792003		
CH322-44E24 2R	12164436	12185436	estimated_end	12164436
	located_end	12185436		
CH322-44F01 3L	14835033	14856033	estimated_end	14835033
	located_end	14856033		
CH322-44F02 3L	9714091	9735091	located_end	9714091
	estimated_end	9735091		
CH322-44F06 2L	12675038	12696038	estimated_end	12675038
	located_end	12696038		
CH322-44F08 2L	1831566	1852566	located_end	1831566
	estimated_end	1852566		
CH322-44F11 2L	4073236	4094236	estimated_end	4073236
	located_end	4094236		

CH322-44F12 X	5321765	5342765	estimated_end	5321765
	located_end	5342765		
CH322-44F13 3L	4466633	4487633	located_end	4466633
	estimated_end	4487633		
CH322-44F15 3R	23178831	23199831	located_end	23178831
	estimated_end	23199831		
CH322-44F16 3L	18567233	18588233	located_end	18567233
	estimated_end	18588233		
CH322-44F21 2L	5095796	5116796	located_end	5095796
	estimated_end	5116796		
CH322-44F24 3R	10206479	10227479	estimated_end	10206479
	located_end	10227479		
CH322-44G03 3L	22234023	22255023	estimated_end	22234023
	located_end	22255023		
CH322-44G05 3L	18010591	18031591	located_end	18010591
	estimated_end	18031591		
CH322-44G07 3R	17926746	17947746	located_end	17926746
	estimated_end	17947746		
CH322-44G08 X	4223628	4244628	located_end	4223628
	estimated_end	4244628		
CH322-44G09 3R	4213430	4234430	located_end	4213430
	estimated_end	4234430		
CH322-44G10 X	14241778	14262778	estimated_end	14241778
	located_end	14262778		
CH322-44G12 3L	13139260	13160260	located_end	13139260
	estimated_end	13160260		
CH322-44G17 3R	7690640	7711640	estimated_end	7690640
	located_end	7711640		
CH322-44G20 3R	11029733	11050733	located_end	11029733
	estimated_end	11050733		
CH322-44H01 2R	2511792	2532792	located_end	2511792
	estimated_end	2532792		
CH322-44H04 3L	22712	43712	estimated_end	22712
	located_end	43712	located_end	43712
CH322-44H05 3L	7463969	7484969	estimated_end	7463969
	located_end	7484969		
CH322-44H06 X	8659677	8680677	estimated_end	8659677
	located_end	8680677		
CH322-44H07 3R	19879145	19900145	estimated_end	19879145
	located_end	19900145		
CH322-44H10 3L	10246996	10267996	estimated_end	10246996
	located_end	10267996		
CH322-44H16 X	797206	818206	located_end	797206
	estimated_end	818206		
CH322-44H17 3R	14805623	14826623	located_end	14805623
	estimated_end	14826623		
CH322-44H18 3L	563081	584081	located_end	563081
	estimated_end	584081		
CH322-44H19 ArmU	6192059	6213059	estimated_end	6192059
	located_end	6213059		
CH322-44H22 2L	9162431	9183431	located_end	9162431
	estimated_end	9183431		
CH322-44H23 X	21306546	21327546	located_end	21306546
	estimated_end	21327546		

CH322-44H24 3R	15622099	15643099	located_end	15622099
	estimated_end	15643099		
CH322-44I01 3R	10925887	10946887	estimated_end	10925887
	located_end	10946887		
CH322-44I03 3R	867238	888238	estimated_end	867238
	located_end	888238		
CH322-44I06 2L	21187729	21208729	located_end	21187729
	estimated_end	21208729		
CH322-44I08 3R	1831144	1852144	estimated_end	1831144
	located_end	1852144		
CH322-44I09 2L	1013002	1034002	estimated_end	1013002
	located_end	1034002		
CH322-44I13 3R	14862810	14883810	estimated_end	14862810
	located_end	14883810		
CH322-44I16 3R	26350607	26371607	located_end	26350607
	estimated_end	26371607		
CH322-44I19 3R	21595834	21616834	estimated_end	21595834
	located_end	21616834		
CH322-44I22 3R	6942231	6963231	located_end	6942231
	estimated_end	6963231		
CH322-44J02 3L	9965069	9986069	estimated_end	9965069
	located_end	9986069		
CH322-44J05 2L	13330291	13351291	located_end	13330291
	estimated_end	13351291		
CH322-44J06 2R	15145125	15166125	estimated_end	15145125
	located_end	15166125		
CH322-44J07 X	9950401	9971401	estimated_end	9950401
	located_end	9971401		
CH322-44J08 X	6025352	6046352	estimated_end	6025352
	located_end	6046352		
CH322-44J12 3L	19512937	19533937	located_end	19512937
	estimated_end	19533937		
CH322-44J13 3R	2679388	2700388	estimated_end	2679388
	located_end	2700388		
CH322-44J15 3R	20367133	20388133	located_end	20367133
	estimated_end	20388133		
CH322-44J17 2R	5744047	5765047	estimated_end	5744047
	located_end	5765047		
CH322-44J23 3L	10450031	10471031	estimated_end	10450031
	located_end	10471031		
CH322-44J24 3L	14130201	14151201	located_end	14130201
	estimated_end	14151201		
CH322-44K01 2L	4268021	4289021	estimated_end	4268021
	located_end	4289021		
CH322-44K06 2L	9664438	9685438	located_end	9664438
	estimated_end	9685438		
CH322-44K08 ArmU	669307	690307	located_end	669307
	estimated_end	690307		
CH322-44K09 2L	17748196	17769196	estimated_end	17748196
	located_end	17769196		
CH322-44K10 2L	15175967	15196967	located_end	15175967
	estimated_end	15196967		
CH322-44K13 3R	24232575	24253575	estimated_end	24232575
	located_end	24253575		

CH322-44K14 2RHet	135337	156337	located_end	135337
	estimated_end	156337		
CH322-44K16 2R	2859827	2880827	estimated_end	2859827
	located_end	2880827		
CH322-44K21 2R	9584432	9605432	estimated_end	9584432
	located_end	9605432		
CH322-44K22 3R	25323086	25344086	estimated_end	25323086
	located_end	25344086		
CH322-44K23 3L	19820817	19841817	located_end	19820817
	estimated_end	19841817		
CH322-44L01 3R	3106842	3127842	located_end	3106842
	estimated_end	3127842		
CH322-44L03 2L	13775952	13796952	estimated_end	13775952
	located_end	13796952		
CH322-44L05 3L	19470079	19491079	located_end	19470079
	estimated_end	19491079		
CH322-44L06 2L	9322022	9343022	estimated_end	9322022
	located_end	9343022		
CH322-44L07 3R	354414	375414	estimated_end	354414
	located_end	375414		
CH322-44L08 3R	759709	780709	located_end	759709
	estimated_end	780709		
CH322-44L09 2R	3051259	3072259	located_end	3051259
	estimated_end	3072259		
CH322-44L13 2L	1397745	1418745	located_end	1397745
	estimated_end	1418745		
CH322-44L14 2R	15710857	15731857	located_end	15710857
	estimated_end	15731857		
CH322-44L18 3L	21583472	21604472	estimated_end	21583472
	located_end	21604472		
CH322-44L20 X	5226523	5247523	estimated_end	5226523
	located_end	5247523		
CH322-44L22 3L	4194185	4215185	estimated_end	4194185
	located_end	4215185		
CH322-44L24 2R	1470682	1491682	estimated_end	1470682
	located_end	1491682		
CH322-44M02 2L	1868408	1889408	estimated_end	1868408
	located_end	1889408		
CH322-44M03 2L	3086066	3107066	located_end	3086066
	estimated_end	3107066		
CH322-44M04 3R	26090164	26111164	estimated_end	26090164
	located_end	26111164		
CH322-44M05 3R	853172	874172	located_end	853172
	estimated_end	874172		
CH322-44M06 3R	9394372	9415372	located_end	9394372
	estimated_end	9415372		
CH322-44M08 3R	13660371	13681371	estimated_end	13660371
	located_end	13681371		
CH322-44M11 2L	8962274	8983274	estimated_end	8962274
	located_end	8983274		
CH322-44M13 X	17183952	17204952	estimated_end	17183952
	located_end	17204952		
CH322-44M15 3L	14913709	14934709	estimated_end	14913709
	located_end	14934709		

CH322-44M16 2R	9059910	9080910	estimated_end	9059910
	located_end	9080910		
CH322-44M17 2L	17928584	17949584	located_end	17928584
	estimated_end	17949584		
CH322-44M19 3L	5668787	5689787	located_end	5668787
	estimated_end	5689787		
CH322-44M20 3L	10947392	10968392	located_end	10947392
	estimated_end	10968392		
CH322-44M21 3R	12140766	12161766	located_end	12140766
	estimated_end	12161766		
CH322-44M24 2L	4645895	4666895	located_end	4645895
	estimated_end	4666895		
CH322-44N01 2RHet	1936737	1957737	estimated_end	1936737
	located_end	1957737		
CH322-44N02 3R	12013762	12034762	estimated_end	12013762
	located_end	12034762		
CH322-44N03 3L	5459594	5480594	estimated_end	5459594
	located_end	5480594		
CH322-44N06 3R	21200170	21221170	located_end	21200170
	estimated_end	21221170		
CH322-44N07 3R	25249921	25270921	estimated_end	25249921
	located_end	25270921		
CH322-44N10 3R	21584837	21605837	estimated_end	21584837
	located_end	21605837		
CH322-44N16 2RHet	1270594	1291594	estimated_end	1270594
	located_end	1291594		
CH322-44N17 3R	10316135	10337135	located_end	10316135
	estimated_end	10337135		
CH322-44N22 X	5099373	5120373	estimated_end	5099373
	located_end	5120373		
CH322-44N23 2R	7621540	7642540	estimated_end	7621540
	located_end	7642540		
CH322-44O06 X	3927024	3948024	estimated_end	3927024
	located_end	3948024		
CH322-44O11 3L	5858710	5879710	located_end	5858710
	estimated_end	5879710		
CH322-44O12 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-44O18 3L	7325521	7346521	located_end	7325521
	estimated_end	7346521		
CH322-44O22 2L	10648117	10669117	located_end	10648117
	estimated_end	10669117		
CH322-44O24 3R	26628070	26649070	located_end	26628070
	estimated_end	26649070		
CH322-44P01 2R	13455645	13476645	located_end	13455645
	estimated_end	13476645		
CH322-44P03 2L	8041818	8062818	located_end	8041818
	estimated_end	8062818		
CH322-44P04 2R	13312405	13333405	estimated_end	13312405
	located_end	13333405		
CH322-44P05 2R	6957636	6978636	estimated_end	6957636
	located_end	6978636		
CH322-44P06 ArmU	450460	471460	located_end	450460
	estimated_end	471460		

CH322-44P07 3R	9069244	9090244	estimated_end	9069244
	located_end	9090244		
CH322-44P09 3R	6051623	6072623	located_end	6051623
	estimated_end	6072623		
CH322-44P13 3R	13724450	13745450	estimated_end	13724450
	located_end	13745450		
CH322-44P15 3R	17647695	17668695	estimated_end	17647695
	located_end	17668695		
CH322-44P16 3L	21333114	21354114	estimated_end	21333114
	located_end	21354114		
CH322-44P17 3R	218950	239950	estimated_end	218950
	located_end	239950		
CH322-44P18 2R	14931617	14952617	estimated_end	14931617
	located_end	14952617		
CH322-44P19 3R	23368749	23389749	located_end	23368749
	estimated_end	23389749		
CH322-44P21 3LHet	232602	253602	located_end	232602
	estimated_end	253602		
CH322-44P22 3LHet	932456	953456	located_end	932456
	estimated_end	953456		
CH322-44P23 3R	6740588	6761588	located_end	6740588
	estimated_end	6761588		
CH322-45A07 2R	16986682	17007682	estimated_end	16986682
	located_end	17007682		
CH322-45A09 3R	19700421	19721421	located_end	19700421
	estimated_end	19721421		
CH322-45B12 2L	7514261	7535261	estimated_end	7514261
	located_end	7535261		
CH322-45B13 3R	1214120	1235120	estimated_end	1214120
	located_end	1235120		
CH322-45B19 3L	21427654	21448654	estimated_end	21427654
	located_end	21448654		
CH322-45B22 3R	27408226	27429226	located_end	27408226
	estimated_end	27429226		
CH322-45B23 X	7861232	7882232	located_end	7861232
	estimated_end	7882232		
CH322-45C07 3L	16560981	16581981	estimated_end	16560981
	located_end	16581981		
CH322-45C09 X	13359110	13380110	estimated_end	13359110
	located_end	13380110		
CH322-45C16 3L	14854927	14875927	located_end	14854927
	estimated_end	14875927		
CH322-45C18 2L	17779911	17800911	located_end	17779911
	estimated_end	17800911		
CH322-45C19 3R	3807764	3828764	located_end	3807764
	estimated_end	3828764		
CH322-45C20 3R	26888121	26909121	located_end	26888121
	estimated_end	26909121		
CH322-45C23 X	15288160	15309160	located_end	15288160
	estimated_end	15309160		
CH322-45D05 2L	22505035	22526035	estimated_end	22505035
	located_end	22526035		
CH322-45D07 2L	6941810	6962810	located_end	6941810
	estimated_end	6962810		

CH322-45D08 2L	20518578	20539578	located_end	20518578
	estimated_end	20539578		
CH322-45D15 2R	10114607	10135607	located_end	10114607
	estimated_end	10135607		
CH322-45D17 3LHet	1875868	1896868	located_end	1875868
	estimated_end	1896868		
CH322-45D19 2R	2439734	2460734	estimated_end	2439734
	located_end	2460734		
CH322-45D22 3L	5110293	5131293	estimated_end	5110293
	located_end	5131293		
CH322-45E02 3R	17213135	17234135	estimated_end	17213135
	located_end	17234135		
CH322-45E03 X	16290316	16311316	located_end	16290316
	estimated_end	16311316		
CH322-45E09 3R	12562406	12583406	located_end	12562406
	estimated_end	12583406		
CH322-45E13 3R	10525823	10546823	located_end	10525823
	estimated_end	10546823		
CH322-45E15 2RHet	1694946	1715946	estimated_end	1694946
	located_end	1715946		
CH322-45E16 2L	16349291	16370291	located_end	16349291
	estimated_end	16370291		
CH322-45E18 X	19878998	19899998	estimated_end	19878998
	located_end	19899998		
CH322-45E19 X	5705651	5726651	estimated_end	5705651
	located_end	5726651		
CH322-45E20 2L	11743122	11764122	located_end	11743122
	estimated_end	11764122		
CH322-45E23 3R	14584346	14605346	estimated_end	14584346
	located_end	14605346		
CH322-45F08 2L	11321260	11342260	located_end	11321260
	estimated_end	11342260		
CH322-45F16 3LHet	1016518	1037518	estimated_end	1016518
	located_end	1037518		
CH322-45F17 3R	2121340	2142340	estimated_end	2121340
	located_end	2142340		
CH322-45F19 2L	21951524	21972524	located_end	21951524
	estimated_end	21972524		
CH322-45F23 3R	12686615	12707615	located_end	12686615
	estimated_end	12707615		
CH322-45G01 2L	10085898	10106898	located_end	10085898
	estimated_end	10106898		
CH322-45G12 X	19521333	19542333	estimated_end	19521333
	located_end	19542333		
CH322-45G13 3R	14171834	14192834	estimated_end	14171834
	located_end	14192834		
CH322-45G14 2L	20137286	20158286	located_end	20137286
	estimated_end	20158286		
CH322-45G16 X	1784213	1805213	estimated_end	1784213
	located_end	1805213		
CH322-45G19 2RHet	2830060	2851060	located_end	2830060
	estimated_end	2851060		
CH322-45G20 2L	19463987	19484987	estimated_end	19463987
	located_end	19484987		

CH322-45G22 X	9281342	9302342	estimated_end	9281342
	located_end	9302342		
CH322-45H01 X	3630237	3651237	located_end	3630237
	estimated_end	3651237		
CH322-45H02 X	12372406	12393406	estimated_end	12372406
	located_end	12393406		
CH322-45H03 X	20443131	20464131	located_end	20443131
	estimated_end	20464131		
CH322-45H04 3L	20317514	20338514	estimated_end	20317514
	located_end	20338514		
CH322-45H05 3R	8404237	8425237	located_end	8404237
	estimated_end	8425237		
CH322-45H06 3R	17465511	17486511	located_end	17465511
	estimated_end	17486511		
CH322-45H13 2L	14938975	14959975	estimated_end	14938975
	located_end	14959975		
CH322-45H20 ArmU	1187836	1208836	located_end	1187836
	estimated_end	1208836		
CH322-45H21 X	14662857	14683857	located_end	14662857
	estimated_end	14683857		
CH322-45H22 3L	16669062	16690062	located_end	16669062
	estimated_end	16690062		
CH322-45I06 X	8171758	8192758	located_end	8171758
	estimated_end	8192758		
CH322-45I08 3R	3638132	3659132	located_end	3638132
	estimated_end	3659132		
CH322-45I19 3L	1625977	1646977	located_end	1625977
	estimated_end	1646977		
CH322-45I22 3L	17257225	17278225	estimated_end	17257225
	located_end	17278225		
CH322-45I23 3L	22779743	22800743	located_end	22779743
	estimated_end	22800743		
CH322-45J05 2RHet	1881417	1902417	estimated_end	1881417
	located_end	1902417		
CH322-45J07 2L	4967423	4988423	located_end	4967423
	estimated_end	4988423		
CH322-45J15 3L	20235517	20256517	estimated_end	20235517
	located_end	20256517		
CH322-45J21 2L	14704275	14725275	estimated_end	14704275
	located_end	14725275		
CH322-45K04 3R	12144225	12165225	estimated_end	12144225
	located_end	12165225		
CH322-45K07 2L	6887679	6908679	located_end	6887679
	estimated_end	6908679		
CH322-45K09 3L	20050710	20071710	estimated_end	20050710
	located_end	20071710		
CH322-45K11 X	19079287	19100287	estimated_end	19079287
	located_end	19100287		
CH322-45K15 3R	8028451	8049451	located_end	8028451
	estimated_end	8049451		
CH322-45K16 X	18456312	18477312	located_end	18456312
	estimated_end	18477312		
CH322-45K20 2R	2753791	2774791	estimated_end	2753791
	located_end	2774791		

CH322-45K22 3R	4731383	4752383	estimated_end	4731383
	located_end	4752383		
CH322-45K24 2R	964519	985519	located_end	964519
	estimated_end	985519		
CH322-45L02 3L	15735560	15756560	estimated_end	15735560
	located_end	15756560		
CH322-45L03 3R	9304365	9325365	located_end	9304365
	estimated_end	9325365		
CH322-45L04 3L	8978184	8999184	estimated_end	8978184
	located_end	8999184		
CH322-45L05 3R	27853952	27874952	estimated_end	27853952
	located_end	27874952		
CH322-45L15 X	5097998	5118998	located_end	5097998
	estimated_end	5118998		
CH322-45L16 2L	15483821	15504821	located_end	15483821
	estimated_end	15504821		
CH322-45L17 2L	17117215	17138215	located_end	17117215
	estimated_end	17138215		
CH322-45L18 3L	4468320	4489320	located_end	4468320
	estimated_end	4489320		
CH322-45L19 2R	16532913	16553913	estimated_end	16532913
	located_end	16553913		
CH322-45L20 X	9748860	9769860	located_end	9748860
	estimated_end	9769860		
CH322-45L21 2L	19704981	19725981	estimated_end	19704981
	located_end	19725981		
CH322-45L22 2L	20897159	20918159	estimated_end	20897159
	located_end	20918159		
CH322-45L23 3R	6640579	6661579	located_end	6640579
	estimated_end	6661579		
CH322-45M01 3R	5253891	5274891	estimated_end	5253891
	located_end	5274891		
CH322-45M05 2R	4216710	4237710	located_end	4216710
	estimated_end	4237710		
CH322-45M07 X	22184101	22205101	located_end	22184101
	estimated_end	22205101		
CH322-45M09 3R	1895618	1916618	estimated_end	1895618
	located_end	1916618		
CH322-45M15 3L	2705776	2726776	estimated_end	2705776
	located_end	2726776		
CH322-45M18 2L	21640326	21661326	estimated_end	21640326
	located_end	21661326		
CH322-45M20 3L	8273045	8294045	located_end	8273045
	estimated_end	8294045		
CH322-45M24 3L	14701119	14722119	located_end	14701119
	estimated_end	14722119		
CH322-45N01 3R	9906509	9927509	estimated_end	9906509
	located_end	9927509		
CH322-45N05 2RHet	1835325	1856325	estimated_end	1835325
	located_end	1856325		
CH322-45N07 3L	1263026	1284026	estimated_end	1263026
	located_end	1284026		
CH322-45N08 3R	15378952	15399952	estimated_end	15378952
	located_end	15399952		

CH322-45N11 3L	12921404	12942404	located_end	12921404
	estimated_end	12942404		
CH322-45N24 2L	19730983	19751983	estimated_end	19730983
	located_end	19751983		
CH322-45O12 2RHet	2569570	2590570	estimated_end	2569570
	located_end	2590570		
CH322-45O13 3R	26764763	26785763	located_end	26764763
	estimated_end	26785763		
CH322-45O15 3R	17051027	17072027	estimated_end	17051027
	located_end	17072027		
CH322-45O16 3R	1887010	1908010	located_end	1887010
	estimated_end	1908010		
CH322-45O18 2RHet	611758	632758	estimated_end	611758
	located_end	632758		
CH322-45O20 3R	18019018	18040018	located_end	18019018
	estimated_end	18040018		
CH322-45O21 2L	13700047	13721047	located_end	13700047
	estimated_end	13721047		
CH322-45P05 X	10852047	10873047	estimated_end	10852047
	located_end	10873047		
CH322-45P10 3R	14252085	14273085	estimated_end	14252085
	located_end	14273085		
CH322-45P11 2R	12229079	12250079	estimated_end	12229079
	located_end	12250079		
CH322-45P12 2L	18095556	18116556	located_end	18095556
	estimated_end	18116556		
CH322-45P18 3L	9998748	10019748	located_end	9998748
	estimated_end	10019748		
CH322-45P21 3R	15804712	15825712	estimated_end	15804712
	located_end	15825712		
CH322-45P22 3R	11758552	11779552	estimated_end	11758552
	located_end	11779552		
CH322-45P23 ArmU	1852599	1873599	estimated_end	1852599
	located_end	1873599		
CH322-45P24 2L	14500465	14521465	estimated_end	14500465
	located_end	14521465		
CH322-46A06 3RHet	1076321	1097321	estimated_end	1076321
	located_end	1097321		
CH322-46A09 2L	17128312	17149312	located_end	17128312
	estimated_end	17149312		
CH322-46A12 2L	18573140	18594140	estimated_end	18573140
	located_end	18594140		
CH322-46A16 2L	19040885	19061885	estimated_end	19040885
	located_end	19061885		
CH322-46A17 X	7728890	7749890	located_end	7728890
	estimated_end	7749890		
CH322-46A19 3R	6090430	6111430	located_end	6090430
	estimated_end	6111430		
CH322-46B04 3L	7676138	7697138	estimated_end	7676138
	located_end	7697138		
CH322-46B05 2L	19923328	19944328	located_end	19923328
	estimated_end	19944328		
CH322-46B07 X	1228334	1249334	estimated_end	1228334
	located_end	1249334		

CH322-46B09 3R	19937699	19958699	estimated_end	19937699
	located_end	19958699		
CH322-46B10 3R	19935810	19956810	located_end	19935810
	estimated_end	19956810		
CH322-46B18 3R	25531575	25552575	located_end	25531575
	estimated_end	25552575		
CH322-46B19 3L	11335876	11356876	estimated_end	11335876
	located_end	11356876		
CH322-46B21 2R	10603157	10624157	estimated_end	10603157
	located_end	10624157		
CH322-46B23 3R	17495491	17516491	estimated_end	17495491
	located_end	17516491		
CH322-46C06 3R	3398394	3419394	located_end	3398394
	estimated_end	3419394		
CH322-46C07 3R	17578533	17599533	estimated_end	17578533
	located_end	17599533		
CH322-46C09 3R	11312783	11333783	located_end	11312783
	estimated_end	11333783		
CH322-46C11 X	10949397	10970397	estimated_end	10949397
	located_end	10970397		
CH322-46C13 3L	4552363	4573363	located_end	4552363
	estimated_end	4573363		
CH322-46C14 X	5177400	5198400	estimated_end	5177400
	located_end	5198400		
CH322-46C17 2R	263181	284181	located_end	263181
	estimated_end	284181		
CH322-46C18 3L	19765088	19786088	estimated_end	19765088
	located_end	19786088		
CH322-46C22 2RHet	1577044	1598044	estimated_end	1577044
	located_end	1598044		
CH322-46C23 X	16337549	16358549	estimated_end	16337549
	located_end	16358549		
CH322-46C24 3R	15228343	15249343	located_end	15228343
	estimated_end	15249343		
CH322-46D01 3L	9733745	9754745	located_end	9733745
	estimated_end	9754745		
CH322-46D02 3L	9733139	9754139	estimated_end	9733139
	located_end	9754139		
CH322-46D04 3R	13472964	13493964	estimated_end	13472964
	located_end	13493964		
CH322-46D08 2L	5368837	5389837	estimated_end	5368837
	located_end	5389837		
CH322-46D17 X	9104281	9125281	located_end	9104281
	estimated_end	9125281		
CH322-46D20 X	8682253	8703253	estimated_end	8682253
	located_end	8703253		
CH322-46D21 3R	7547465	7568465	located_end	7547465
	estimated_end	7568465		
CH322-46D22 3R	7550517	7571517	estimated_end	7550517
	located_end	7571517		
CH322-46D23 3R	311778	332778	estimated_end	311778
	located_end	332778		
CH322-46D24 3R	312760	333760	located_end	312760
	estimated_end	333760		

CH322-46E02 2L	18757628	18778628	located_end	18757628
	estimated_end	18778628		
CH322-46E04 3R	24359438	24380438	estimated_end	24359438
	located_end	24380438		
CH322-46E07 2L	2725443	2746443	located_end	2725443
	estimated_end	2746443		
CH322-46E12 3LHet	-5232 15768	estimated_end	-5232 located_end	15768
CH322-46E13 3L	20603753	20624753	located_end	20603753
	estimated_end	20624753		
CH322-46E14 3R	9543961	9564961	located_end	9543961
	estimated_end	9564961		
CH322-46E19 3L	5078626	5099626	located_end	5078626
	estimated_end	5099626		
CH322-46E21 2L	6896658	6917658	located_end	6896658
	estimated_end	6917658		
CH322-46F01 3L	22152908	22173908	estimated_end	22152908
	located_end	22173908		
CH322-46F07 2R	9237386	9258386	located_end	9237386
	estimated_end	9258386		
CH322-46F08 2R	16037494	16058494	located_end	16037494
	estimated_end	16058494		
CH322-46F10 3R	17209925	17230925	located_end	17209925
	estimated_end	17230925		
CH322-46F11 2L	1397392	1418392	located_end	1397392
	estimated_end	1418392		
CH322-46F14 3L	7082627	7103627	estimated_end	7082627
	located_end	7103627		
CH322-46F17 3R	9311794	9332794	located_end	9311794
	estimated_end	9332794		
CH322-46F19 2L	20562851	20583851	located_end	20562851
	estimated_end	20583851		
CH322-46F21 2R	2990398	3011398	estimated_end	2990398
	located_end	3011398		
CH322-46F23 X	3888787	3909787	located_end	3888787
	estimated_end	3909787		
CH322-46G03 2L	1925504	1946504	estimated_end	1925504
	located_end	1946504		
CH322-46G06 2L	114874	135874	located_end	114874
	estimated_end	135874		
CH322-46G08 2L	18020236	18041236	estimated_end	18020236
	located_end	18041236		
CH322-46G09 3RHet	2328868	2349868	estimated_end	2328868
	located_end	2349868		
CH322-46G12 3LHet	148846	169846	estimated_end	148846
	located_end	169846		
CH322-46G18 2R	13195384	13216384	located_end	13195384
	estimated_end	13216384		
CH322-46G19 2R	6265423	6286423	estimated_end	6265423
	located_end	6286423		
CH322-46G21 2L	4990556	5011556	estimated_end	4990556
	located_end	5011556		
CH322-46G23 2L	19131381	19152381	located_end	19131381
	estimated_end	19152381		

CH322-46G24 2L	21389570	21410570	located_end	21389570
estimated_end	21410570			
CH322-46H02 2L	7206127	7227127	estimated_end	7206127
located_end	7227127			
CH322-46H04 X	13918155	13939155	estimated_end	13918155
located_end	13939155			
CH322-46H10 3L	14208360	14229360	located_end	14208360
estimated_end	14229360			
CH322-46H17 2L	2264633	2285633	located_end	2264633
estimated_end	2285633			
CH322-46H19 2L	19994369	20015369	estimated_end	19994369
located_end	20015369			
CH322-46H20 2R	7108099	7129099	located_end	7108099
estimated_end	7129099			
CH322-46H22 2R	8291683	8312683	estimated_end	8291683
located_end	8312683			
CH322-46H23 X	11379256	11400256	estimated_end	11379256
located_end	11400256			
CH322-46I06 2R	16850302	16871302	located_end	16850302
estimated_end	16871302			
CH322-46I07 X	8630859	8651859	located_end	8630859
estimated_end	8651859			
CH322-46I08 3L	2733049	2754049	located_end	2733049
estimated_end	2754049			
CH322-46I09 2L	13920761	13941761	estimated_end	13920761
located_end	13941761			
CH322-46I10 3R	23956094	23977094	located_end	23956094
estimated_end	23977094			
CH322-46I14 3L	8057610	8078610	located_end	8057610
estimated_end	8078610			
CH322-46I16 3R	7373016	7394016	estimated_end	7373016
located_end	7394016			
CH322-46I18 2R	7665506	7686506	located_end	7665506
estimated_end	7686506			
CH322-46I20 3L	9901154	9922154	estimated_end	9901154
located_end	9922154			
CH322-46I22 3L	11280023	11301023	estimated_end	11280023
located_end	11301023			
CH322-46I24 2L	11753114	11774114	estimated_end	11753114
located_end	11774114			
CH322-46J01 2R	17756401	17777401	located_end	17756401
estimated_end	17777401			
CH322-46J03 3L	4016522	4037522	estimated_end	4016522
located_end	4037522			
CH322-46J04 2R	19678271	19699271	located_end	19678271
estimated_end	19699271			
CH322-46J05 3L	8755167	8776167	estimated_end	8755167
located_end	8776167			
CH322-46J06 3L	8754745	8775745	located_end	8754745
estimated_end	8775745			
CH322-46J07 3L	18241867	18262867	located_end	18241867
estimated_end	18262867			
CH322-46J08 3L	18240537	18261537	estimated_end	18240537
located_end	18261537			

CH322-46J09 3R	5130369	5151369	estimated_end	5130369
	located_end	5151369		
CH322-46J14 X	2333697	2354697	located_end	2333697
	estimated_end	2354697		
CH322-46J19 2L	6167213	6188213	estimated_end	6167213
	located_end	6188213		
CH322-46J21 X	22206530	22227530	estimated_end	22206530
	located_end	22227530		
CH322-46K05 2RHet	3096811	3117811	estimated_end	3096811
	located_end	3117811		
CH322-46K08 2R	15364503	15385503	located_end	15364503
	estimated_end	15385503		
CH322-46K09 2LHet	282781	303781	estimated_end	282781
	located_end	303781		
CH322-46K10 3R	3565376	3586376	estimated_end	3565376
	located_end	3586376		
CH322-46K12 3R	4427954	4448954	estimated_end	4427954
	located_end	4448954		
CH322-46K15 3R	15520529	15541529	estimated_end	15520529
	located_end	15541529		
CH322-46K17 ArmU	2232391	2253391	located_end	2232391
	estimated_end	2253391		
CH322-46K19 2R	15397513	15418513	located_end	15397513
	estimated_end	15418513		
CH322-46K20 2R	446519	467519	located_end	446519
	estimated_end	467519		
CH322-46L03 2L	5919837	5940837	located_end	5919837
	estimated_end	5940837		
CH322-46L04 2L	5922050	5943050	estimated_end	5922050
	located_end	5943050		
CH322-46L09 2R	14374237	14395237	located_end	14374237
	estimated_end	14395237		
CH322-46L10 2R	14373487	14394487	estimated_end	14373487
	located_end	14394487		
CH322-46L14 X	11892670	11913670	estimated_end	11892670
	located_end	11913670		
CH322-46L16 2L	18446649	18467649	located_end	18446649
	estimated_end	18467649		
CH322-46L19 2L	8309309	8330309	located_end	8309309
	estimated_end	8330309		
CH322-46L21 2L	17486449	17507449	located_end	17486449
	estimated_end	17507449		
CH322-46L23 3R	7060836	7081836	estimated_end	7060836
	located_end	7081836		
CH322-46M03 2L	20467442	20488442	located_end	20467442
	estimated_end	20488442		
CH322-46M10 2R	13402693	13423693	estimated_end	13402693
	located_end	13423693		
CH322-46M12 2R	4560555	4581555	estimated_end	4560555
	located_end	4581555		
CH322-46M15 3L	14353899	14374899	located_end	14353899
	estimated_end	14374899		
CH322-46M16 3R	5540882	5561882	estimated_end	5540882
	located_end	5561882		

CH322-46M19 3R	3239089	3260089	estimated_end	3239089
	located_end	3260089		
CH322-46M20 3R	23572885	23593885	located_end	23572885
	estimated_end	23593885		
CH322-46M21 3L	16598957	16619957	estimated_end	16598957
	located_end	16619957		
CH322-46N01 2L	7642921	7663921	located_end	7642921
	estimated_end	7663921		
CH322-46N02 2L	7639601	7660601	estimated_end	7639601
	located_end	7660601		
CH322-46N04 3L	5694520	5715520	estimated_end	5694520
	located_end	5715520		
CH322-46N07 2L	22801906	22822906	estimated_end	22801906
	located_end	22822906		
CH322-46N16 2L	4851819	4872819	located_end	4851819
	estimated_end	4872819		
CH322-46N23 4	173838	194838	located_end	173838
	estimated_end	194838		
CH322-46O07 3R	22715028	22736028	located_end	22715028
	estimated_end	22736028		
CH322-46O16 3L	11520811	11541811	located_end	11520811
	estimated_end	11541811		
CH322-46O19 X	733727	754727	located_end	733727
	estimated_end	754727		
CH322-46O20 3L	875415	896415	estimated_end	875415
	located_end	896415		
CH322-46O22 3R	830508	851508	estimated_end	830508
	located_end	851508		
CH322-46P06 2L	4690013	4711013	located_end	4690013
	estimated_end	4711013		
CH322-46P07 3L	3722508	3743508	located_end	3722508
	estimated_end	3743508		
CH322-46P08 X	20467311	20488311	located_end	20467311
	estimated_end	20488311		
CH322-46P09 2L	22668095	22689095	estimated_end	22668095
	located_end	22689095		
CH322-46P10 2R	5263633	5284633	located_end	5263633
	estimated_end	5284633		
CH322-46P12 2L	17978672	17999672	estimated_end	17978672
	located_end	17999672		
CH322-46P13 3L	18748318	18769318	located_end	18748318
	estimated_end	18769318		
CH322-46P16 2R	17585355	17606355	located_end	17585355
	estimated_end	17606355		
CH322-46P17 2L	3276090	3297090	located_end	3276090
	estimated_end	3297090		
CH322-46P18 2L	3276057	3297057	located_end	3276057
	estimated_end	3297057		
CH322-46P21 3L	133841	154841	located_end	133841
	estimated_end	154841		
CH322-46P22 3L	133547	154547	estimated_end	133547
	located_end	154547		
CH322-46P24 X	4058955	4079955	estimated_end	4058955
	located_end	4079955		

CH322-47A04 2L	3418215	3439215	estimated_end	3418215
	located_end	3439215		
CH322-47A06 2L	22913852	22934852	located_end	22913852
	estimated_end	22934852		
CH322-47A09 3R	25448376	25469376	estimated_end	25448376
	located_end	25469376		
CH322-47A10 2RHet	2368283	2389283	estimated_end	2368283
	located_end	2389283		
CH322-47A13 2L	254482	275482	estimated_end	254482
	located_end	275482		
CH322-47A16 3L	18292241	18313241	estimated_end	18292241
	located_end	18313241		
CH322-47A18 3R	12720934	12741934	located_end	12720934
	estimated_end	12741934		
CH322-47A24 2L	19783003	19804003	estimated_end	19783003
	located_end	19804003		
CH322-47B03 3R	24235888	24256888	estimated_end	24235888
	located_end	24256888		
CH322-47B05 2L	18785683	18806683	estimated_end	18785683
	located_end	18806683		
CH322-47B06 3L	22591984	22612984	located_end	22591984
	estimated_end	22612984		
CH322-47B08 3L	10315758	10336758	located_end	10315758
	estimated_end	10336758		
CH322-47B10 2L	10487171	10508171	located_end	10487171
	estimated_end	10508171		
CH322-47B11 3R	13924260	13945260	estimated_end	13924260
	located_end	13945260		
CH322-47B13 X	18470509	18491509	estimated_end	18470509
	located_end	18491509		
CH322-47B16 3R	16275211	16296211	located_end	16275211
	estimated_end	16296211		
CH322-47B18 2R	9618428	9639428	estimated_end	9618428
	located_end	9639428		
CH322-47B19 3L	16620834	16641834	estimated_end	16620834
	located_end	16641834		
CH322-47B22 2R	6804710	6825710	located_end	6804710
	estimated_end	6825710		
CH322-47C02 3L	2998549	3019549	located_end	2998549
	estimated_end	3019549		
CH322-47C04 X	542443	563443	located_end	542443
	estimated_end	563443		
CH322-47C06 X	12344775	12365775	located_end	12344775
	estimated_end	12365775		
CH322-47C09 3L	13799747	13820747	estimated_end	13799747
	located_end	13820747		
CH322-47C10 X	9822671	9843671	located_end	9822671
	estimated_end	9843671		
CH322-47C12 2R	13945900	13966900	estimated_end	13945900
	located_end	13966900		
CH322-47C13 3L	16370908	16391908	located_end	16370908
	estimated_end	16391908		
CH322-47C16 2L	10453221	10474221	estimated_end	10453221
	located_end	10474221		

CH322-47C17 3R	14253284	14274284	estimated_end	14253284
	located_end	14274284		
CH322-47C18 3L	13248087	13269087	located_end	13248087
	estimated_end	13269087		
CH322-47C21 2L	19451293	19472293	estimated_end	19451293
	located_end	19472293		
CH322-47C23 3LHet	272312	293312	located_end	272312
	estimated_end	293312		
CH322-47D01 3RHet	715452	736452	estimated_end	715452
	located_end	736452		
CH322-47D02 3R	9151413	9172413	estimated_end	9151413
	located_end	9172413		
CH322-47D03 2R	19595768	19616768	located_end	19595768
	estimated_end	19616768		
CH322-47D06 3R	11795677	11816677	estimated_end	11795677
	located_end	11816677		
CH322-47D10 2L	22526005	22547005	estimated_end	22526005
	located_end	22547005		
CH322-47D12 2RHet	2408542	2429542	located_end	2408542
	estimated_end	2429542		
CH322-47D20 ArmU	2234079	2255079	located_end	2234079
	estimated_end	2255079		
CH322-47D23 3L	15089777	15110777	estimated_end	15089777
	located_end	15110777		
CH322-47E02 2R	10625812	10646812	estimated_end	10625812
	located_end	10646812		
CH322-47E03 2R	12397618	12418618	located_end	12397618
	estimated_end	12418618		
CH322-47E07 3L	6772890	6793890	estimated_end	6772890
	located_end	6793890		
CH322-47E08 3L	20526863	20547863	estimated_end	20526863
	located_end	20547863		
CH322-47E11 3R	2424086	2445086	estimated_end	2424086
	located_end	2445086		
CH322-47E12 2R	1045330	1066330	estimated_end	1045330
	located_end	1066330		
CH322-47E15 3R	21187427	21208427	located_end	21187427
	estimated_end	21208427		
CH322-47E17 3R	14610903	14631903	located_end	14610903
	estimated_end	14631903		
CH322-47E18 2L	11074840	11095840	estimated_end	11074840
	located_end	11095840		
CH322-47E20 2R	8996801	9017801	estimated_end	8996801
	located_end	9017801		
CH322-47E22 3L	7451483	7472483	estimated_end	7451483
	located_end	7472483		
CH322-47F04 3L	233372	254372	estimated_end	233372
	located_end	254372		
CH322-47F05 X	22229596	22250596	located_end	22229596
	estimated_end	22250596		
CH322-47F06 2L	16637838	16658838	estimated_end	16637838
	located_end	16658838		
CH322-47F08 X	6623814	6644814	located_end	6623814
	estimated_end	6644814		

CH322-47F11 3L	9739875	9760875	estimated_end	9739875
located_end	9760875			
CH322-47F12 3L	9739875	9760875	estimated_end	9739875
located_end	9760875			
CH322-47F15 3R	20291928	20312928	estimated_end	20291928
located_end	20312928			
CH322-47F16 2R	12469154	12490154	located_end	12469154
estimated_end	12490154			
CH322-47F17 2R	8327587	8348587	estimated_end	8327587
located_end	8348587			
CH322-47F19 3R	6431961	6452961	estimated_end	6431961
located_end	6452961			
CH322-47G03 3R	15907686	15928686	located_end	15907686
estimated_end	15928686			
CH322-47G05 3R	12556826	12577826	located_end	12556826
estimated_end	12577826			
CH322-47G07 2R	20339900	20360900	located_end	20339900
estimated_end	20360900			
CH322-47G08 3R	12599996	12620996	estimated_end	12599996
located_end	12620996			
CH322-47G10 X	11836524	11857524	estimated_end	11836524
located_end	11857524			
CH322-47G13 3LHet	1264807	1285807	located_end	1264807
estimated_end	1285807			
CH322-47G16 3L	8147174	8168174	estimated_end	8147174
located_end	8168174			
CH322-47G17 3R	23477946	23498946	estimated_end	23477946
located_end	23498946			
CH322-47G19 2L	14305781	14326781	estimated_end	14305781
located_end	14326781			
CH322-47G21 3R	8925287	8946287	located_end	8925287
estimated_end	8946287			
CH322-47H01 2L	13284010	13305010	estimated_end	13284010
located_end	13305010			
CH322-47H05 X	210756	231756	estimated_end	210756
located_end	231756			
CH322-47H06 X	20955031	20976031	estimated_end	20955031
located_end	20976031			
CH322-47H13 3L	18289233	18310233	estimated_end	18289233
located_end	18310233			
CH322-47H18 3R	16562875	16583875	located_end	16562875
estimated_end	16583875			
CH322-47H21 4	1057722	1078722	estimated_end	1057722
located_end	1078722			
CH322-47I01 3R	3006062	3027062	estimated_end	3006062
located_end	3027062			
CH322-47I02 3R	26582804	26603804	located_end	26582804
estimated_end	26603804			
CH322-47I06 3L	14469407	14490407	estimated_end	14469407
located_end	14490407			
CH322-47I07 2R	4247198	4268198	estimated_end	4247198
located_end	4268198			
CH322-47I10 3LHet	892266	913266	estimated_end	892266
located_end	913266			

CH322-47I13 2R	10318468	10339468	located_end	10318468
	estimated_end	10339468		
CH322-47I14 3L	18557622	18578622	estimated_end	18557622
	located_end	18578622		
CH322-47I16 3R	27785082	27806082	located_end	27785082
	estimated_end	27806082		
CH322-47I17 3R	9918259	9939259	located_end	9918259
	estimated_end	9939259		
CH322-47I20 2L	7558790	7579790	located_end	7558790
	estimated_end	7579790		
CH322-47I24 2R	11623213	11644213	located_end	11623213
	estimated_end	11644213		
CH322-47J01 2R	5153394	5174394	estimated_end	5153394
	located_end	5174394		
CH322-47J02 3R	7517887	7538887	estimated_end	7517887
	located_end	7538887		
CH322-47J06 X	4384323	4405323	located_end	4384323
	estimated_end	4405323		
CH322-47J07 2R	12098190	12119190	located_end	12098190
	estimated_end	12119190		
CH322-47J09 2L	3937366	3958366	located_end	3937366
	estimated_end	3958366		
CH322-47J14 2R	10880002	10901002	estimated_end	10880002
	located_end	10901002		
CH322-47K01 3L	22069707	22090707	estimated_end	22069707
	located_end	22090707		
CH322-47K03 3R	14130227	14151227	located_end	14130227
	estimated_end	14151227		
CH322-47K17 3L	4966284	4987284	estimated_end	4966284
	located_end	4987284		
CH322-47K23 2L	12370563	12391563	located_end	12370563
	estimated_end	12391563		
CH322-47L04 X	3591228	3612228	estimated_end	3591228
	located_end	3612228		
CH322-47L06 2L	19090460	19111460	located_end	19090460
	estimated_end	19111460		
CH322-47L07 X	9109288	9130288	located_end	9109288
	estimated_end	9130288		
CH322-47L10 3R	23918939	23939939	estimated_end	23918939
	located_end	23939939		
CH322-47L12 3L	7134713	7155713	located_end	7134713
	estimated_end	7155713		
CH322-47L16 3RHet	1119032	1140032	estimated_end	1119032
	located_end	1140032		
CH322-47L22 X	11612933	11633933	located_end	11612933
	estimated_end	11633933		
CH322-47L23 X	17841460	17862460	estimated_end	17841460
	located_end	17862460		
CH322-47L24 3L	19888418	19909418	located_end	19888418
	estimated_end	19909418		
CH322-47M02 3R	18154134	18175134	located_end	18154134
	estimated_end	18175134		
CH322-47M05 3L	6863414	6884414	located_end	6863414
	estimated_end	6884414		

CH322-47M06 2L	10455258	10476258	located_end 10455258
	estimated_end	10476258	
CH322-47M07 X	2757634	2778634	located_end 2757634
	estimated_end	2778634	
CH322-47M13 3R	6591250	6612250	located_end 6591250
	estimated_end	6612250	
CH322-47M14 3R	26747642	26768642	estimated_end 26747642
	located_end	26768642	
CH322-47M19 3L	23644660	23665660	located_end 23644660
	estimated_end	23665660	
CH322-47M23 2RHet	1361922	1382922	located_end 1361922
	estimated_end	1382922	
CH322-47N01 3R	17427238	17448238	estimated_end 17427238
	located_end	17448238	
CH322-47N03 X	12330148	12351148	located_end 12330148
	estimated_end	12351148	
CH322-47N04 2R	16296121	16317121	estimated_end 16296121
	located_end	16317121	
CH322-47N06 2RHet	1274895	1295895	estimated_end 1274895
	located_end	1295895	
CH322-47N07 X	16465152	16486152	located_end 16465152
	estimated_end	16486152	
CH322-47N12 X	10900478	10921478	located_end 10900478
	estimated_end	10921478	
CH322-47N14 X	1781778	1802778	estimated_end 1781778
	located_end	1802778	
CH322-47N15 3R	17263272	17284272	located_end 17263272
	estimated_end	17284272	
CH322-47N19 2R	12057702	12078702	estimated_end 12057702
	located_end	12078702	
CH322-47N23 3L	10780284	10801284	estimated_end 10780284
	located_end	10801284	
CH322-47O02 3L	2060520	2081520	estimated_end 2060520
	located_end	2081520	
CH322-47O03 3L	14584748	14605748	located_end 14584748
	estimated_end	14605748	
CH322-47O08 2L	13984404	14005404	located_end 13984404
	estimated_end	14005404	
CH322-47O10 3R	4005988	4026988	located_end 4005988
	estimated_end	4026988	
CH322-47O11 X	12769977	12790977	located_end 12769977
	estimated_end	12790977	
CH322-47O16 3L	8608101	8629101	located_end 8608101
	estimated_end	8629101	
CH322-47O22 X	11814991	11835991	estimated_end 11814991
	located_end	11835991	
CH322-47O23 3R	6329438	6350438	located_end 6329438
	estimated_end	6350438	
CH322-47P01 3R	13451415	13472415	located_end 13451415
	estimated_end	13472415	
CH322-47P03 X	17025226	17046226	estimated_end 17025226
	located_end	17046226	
CH322-47P04 2R	699374	720374	estimated_end 699374
	located_end	720374	

CH322-47P07 3R	11907368	11928368	estimated_end	11907368
	located_end	11928368		
CH322-47P09 2L	11692664	11713664	estimated_end	11692664
	located_end	11713664		
CH322-47P14 2L	6098475	6119475	estimated_end	6098475
	located_end	6119475		
CH322-47P16 2R	9781454	9802454	estimated_end	9781454
	located_end	9802454		
CH322-47P17 2L	13143135	13164135	located_end	13143135
	estimated_end	13164135		
CH322-47P18 3L	14274546	14295546	estimated_end	14274546
	located_end	14295546		
CH322-47P23 2R	3370073	3391073	estimated_end	3370073
	located_end	3391073		
CH322-47P24 3L	6782025	6803025	located_end	6782025
	estimated_end	6803025		
CH322-48A16 2L	18874201	18895201	located_end	18874201
	estimated_end	18895201		
CH322-48A22 3R	3618783	3639783	located_end	3618783
	estimated_end	3639783		
CH322-48A23 X	7735543	7756543	located_end	7735543
	estimated_end	7756543		
CH322-48B10 2L	20028094	20049094	estimated_end	20028094
	located_end	20049094		
CH322-48B14 3L	2947712	2968712	located_end	2947712
	estimated_end	2968712		
CH322-48B15 2L	11009328	11030328	estimated_end	11009328
	located_end	11030328		
CH322-48B16 3L	22497978	22518978	located_end	22497978
	estimated_end	22518978		
CH322-48B18 X	20145894	20166894	located_end	20145894
	estimated_end	20166894		
CH322-48B20 X	2478933	2499933	located_end	2478933
	estimated_end	2499933		
CH322-48B21 ArmU	9775223	9796223	estimated_end	9775223
	located_end	9796223		
CH322-48B24 3L	3300536	3321536	estimated_end	3300536
	located_end	3321536		
CH322-48C06 3R	13567880	13588880	estimated_end	13567880
	located_end	13588880		
CH322-48C10 2RHet	468231	489231	located_end	468231
	estimated_end	489231		
CH322-48C14 X	7007898	7028898	located_end	7007898
	estimated_end	7028898		
CH322-48C17 3L	2605666	2626666	located_end	2605666
	estimated_end	2626666		
CH322-48C20 3R	4982331	5003331	estimated_end	4982331
	located_end	5003331		
CH322-48C24 3R	910605	931605	located_end	910605
	estimated_end	931605		
CH322-48D07 X	6339527	6360527	estimated_end	6339527
	located_end	6360527		
CH322-48D08 2L	6881525	6902525	estimated_end	6881525
	located_end	6902525		

CH322-48D16 3R	18372532	18393532	located_end	18372532
	estimated_end	18393532		
CH322-48D17 3R	21655354	21676354	located_end	21655354
	estimated_end	21676354		
CH322-48D20 3L	15175071	15196071	estimated_end	15175071
	located_end	15196071		
CH322-48D22 2L	8289344	8310344	estimated_end	8289344
	located_end	8310344		
CH322-48E05 ArmU	7740307	7761307	estimated_end	7740307
	located_end	7761307		
CH322-48E09 ArmU	8146753	8167753	estimated_end	8146753
	located_end	8167753		
CH322-48E12 2L	1006219	1027219	located_end	1006219
	estimated_end	1027219		
CH322-48E14 ArmU	1648397	1669397	estimated_end	1648397
	located_end	1669397		
CH322-48E15 3R	20484940	20505940	located_end	20484940
	estimated_end	20505940		
CH322-48E16 3R	12325803	12346803	located_end	12325803
	estimated_end	12346803		
CH322-48E17 3RHet	1536983	1557983	located_end	1536983
	estimated_end	1557983		
CH322-48E18 X	4866335	4887335	located_end	4866335
	estimated_end	4887335		
CH322-48F23 4	615306	636306	estimated_end	615306
	located_end	636306		
CH322-48G08 X	1270241	1291241	estimated_end	1270241
	located_end	1291241		
CH322-48G11 2L	7121480	7142480	estimated_end	7121480
	located_end	7142480		
CH322-48G15 X	6966689	6987689	estimated_end	6966689
	located_end	6987689		
CH322-48G16 2L	6194531	6215531	located_end	6194531
	estimated_end	6215531		
CH322-48G19 3R	18018986	18039986	estimated_end	18018986
	located_end	18039986		
CH322-48G20 X	4520073	4541073	estimated_end	4520073
	located_end	4541073		
CH322-48H05 3R	3407938	3428938	estimated_end	3407938
	located_end	3428938		
CH322-48H06 3R	12488099	12509099	estimated_end	12488099
	located_end	12509099		
CH322-48H08 2L	13306887	13327887	located_end	13306887
	estimated_end	13327887		
CH322-48H12 3L	11641218	11662218	estimated_end	11641218
	located_end	11662218		
CH322-48H16 2R	18506907	18527907	located_end	18506907
	estimated_end	18527907		
CH322-48H17 2LHet	321546	342546	estimated_end	321546
	located_end	342546		
CH322-48H19 2R	4256731	4277731	estimated_end	4256731
	located_end	4277731		
CH322-48H20 2R	18071087	18092087	estimated_end	18071087
	located_end	18092087		

CH322-48H23 2R	8093145	8114145	estimated_end	8093145
	located_end	8114145		
CH322-48H24 4	1187759	1208759	located_end	1187759
	estimated_end	1208759		
CH322-48I09 3R	12098658	12119658	estimated_end	12098658
	located_end	12119658		
CH322-48I19 3R	6823263	6844263	estimated_end	6823263
	located_end	6844263		
CH322-48I20 X	18981499	19002499	estimated_end	18981499
	located_end	19002499		
CH322-48I23 3L	8194177	8215177	estimated_end	8194177
	located_end	8215177		
CH322-48J07 3L	10492514	10513514	estimated_end	10492514
	located_end	10513514		
CH322-48J11 3R	11580387	11601387	located_end	11580387
	estimated_end	11601387		
CH322-48J15 X	18341280	18362280	located_end	18341280
	estimated_end	18362280		
CH322-48J16 3R	27225652	27246652	estimated_end	27225652
	located_end	27246652		
CH322-48J17 X	1613338	1634338	located_end	1613338
	estimated_end	1634338		
CH322-48J19 X	797421	818421	estimated_end	797421
	located_end	818421		
CH322-48J22 X	12633939	12654939	located_end	12633939
	estimated_end	12654939		
CH322-48J23 2L	10657259	10678259	estimated_end	10657259
	located_end	10678259		
CH322-48J24 2R	11304428	11325428	located_end	11304428
	estimated_end	11325428		
CH322-48K09 X	8259503	8280503	located_end	8259503
	estimated_end	8280503		
CH322-48K19 3Rhet	420731	441731	located_end	420731
	estimated_end	441731		
CH322-48K23 3R	10229331	10250331	located_end	10229331
	estimated_end	10250331		
CH322-48L09 3R	2647123	2668123	estimated_end	2647123
	located_end	2668123		
CH322-48L16 3L	17654754	17675754	estimated_end	17654754
	located_end	17675754		
CH322-48L22 2L	8974583	8995583	located_end	8974583
	estimated_end	8995583		
CH322-48L24 X	2396894	2417894	estimated_end	2396894
	located_end	2417894		
CH322-48M04 3R	7480821	7501821	estimated_end	7480821
	located_end	7501821		
CH322-48M08 X	6534058	6555058	estimated_end	6534058
	located_end	6555058		
CH322-48M16 2L	17568460	17589460	estimated_end	17568460
	located_end	17589460		
CH322-48M21 X	12706759	12727759	located_end	12706759
	estimated_end	12727759		
CH322-48M22 X	16173332	16194332	located_end	16173332
	estimated_end	16194332		

CH322-48N09 3L	11746401	11767401	located_end	11746401
	estimated_end	11767401		
CH322-48N12 2L	5927759	5948759	estimated_end	5927759
	located_end	5948759		
CH322-48N14 3L	19468987	19489987	estimated_end	19468987
	located_end	19489987		
CH322-48N21 2L	17835979	17856979	estimated_end	17835979
	located_end	17856979		
CH322-48N23 3R	9133455	9154455	estimated_end	9133455
	located_end	9154455		
CH322-48N24 2L	21062605	21083605	located_end	21062605
	estimated_end	21083605		
CH322-48O07 3L	12219889	12240889	located_end	12219889
	estimated_end	12240889		
CH322-48O08 3L	2861959	2882959	estimated_end	2861959
	located_end	2882959		
CH322-48O15 2L	19201277	19222277	located_end	19201277
	estimated_end	19222277		
CH322-48O16 3R	23094587	23115587	located_end	23094587
	estimated_end	23115587		
CH322-48O24 X	12108354	12129354	estimated_end	12108354
	located_end	12129354		
CH322-48P01 2L	3250345	3271345	estimated_end	3250345
	located_end	3271345		
CH322-48P05 2R	9873121	9894121	located_end	9873121
	estimated_end	9894121		
CH322-48P06 X	14481210	14502210	located_end	14481210
	estimated_end	14502210		
CH322-48P07 X	14015741	14036741	located_end	14015741
	estimated_end	14036741		
CH322-48P12 2R	15257658	15278658	located_end	15257658
	estimated_end	15278658		
CH322-48P13 2L	11856157	11877157	located_end	11856157
	estimated_end	11877157		
CH322-48P15 2R	14626365	14647365	located_end	14626365
	estimated_end	14647365		
CH322-48P16 3L	13087662	13108662	estimated_end	13087662
	located_end	13108662		
CH322-48P18 X	12249648	12270648	located_end	12249648
	estimated_end	12270648		
CH322-48P20 3R	25770607	25791607	estimated_end	25770607
	located_end	25791607		
CH322-48P21 3R	23567188	23588188	located_end	23567188
	estimated_end	23588188		
CH322-48P22 2L	13414274	13435274	located_end	13414274
	estimated_end	13435274		
CH322-48P24 2L	9518053	9539053	estimated_end	9518053
	located_end	9539053		
CH322-49A02 3L	23813820	23834820	estimated_end	23813820
	located_end	23834820		
CH322-49A04 3L	18529144	18550144	estimated_end	18529144
	located_end	18550144		
CH322-49A10 2R	16734773	16755773	located_end	16734773
	estimated_end	16755773		

CH322-49A13 2R	16845127	16866127	estimated_end	16845127
	located_end	16866127		
CH322-49A19 X	1819739	1840739	estimated_end	1819739
	located_end	1840739		
CH322-49A20 X	7858469	7879469	estimated_end	7858469
	located_end	7879469		
CH322-49A24 3R	9788471	9809471	located_end	9788471
	estimated_end	9809471		
CH322-49B15 3L	19407248	19428248	located_end	19407248
	estimated_end	19428248		
CH322-49B17 3L	17692326	17713326	estimated_end	17692326
	located_end	17713326		
CH322-49B18 3R	5754279	5775279	located_end	5754279
	estimated_end	5775279		
CH322-49B22 3L	10424359	10445359	estimated_end	10424359
	located_end	10445359		
CH322-49B23 2R	12348810	12369810	located_end	12348810
	estimated_end	12369810		
CH322-49C01 2R	6525161	6546161	located_end	6525161
	estimated_end	6546161		
CH322-49C03 3LHet	2414673	2435673	located_end	2414673
	estimated_end	2435673		
CH322-49C07 X	18550559	18571559	estimated_end	18550559
	located_end	18571559		
CH322-49C08 3L	5551997	5572997	located_end	5551997
	estimated_end	5572997		
CH322-49C15 2L	22722191	22743191	estimated_end	22722191
	located_end	22743191		
CH322-49C19 2R	19391939	19412939	located_end	19391939
	estimated_end	19412939		
CH322-49C21 2L	1449586	1470586	estimated_end	1449586
	located_end	1470586		
CH322-49E18 3L	7475877	7496877	located_end	7475877
	estimated_end	7496877		
CH322-49F17 3R	18605782	18626782	estimated_end	18605782
	located_end	18626782		
CH322-49F22 ArmU	6165954	6186954	estimated_end	6165954
	located_end	6186954		
CH322-49F24 2R	16679564	16700564	located_end	16679564
	estimated_end	16700564		
CH322-49G14 2R	20082249	20103249	estimated_end	20082249
	located_end	20103249		
CH322-49H05 3R	8516068	8537068	located_end	8516068
	estimated_end	8537068		
CH322-49H18 X	21377043	21398043	located_end	21377043
	estimated_end	21398043		
CH322-49H20 2R	9119839	9140839	estimated_end	9119839
	located_end	9140839		
CH322-49I01 2R	188236	209236	estimated_end	188236
	located_end	209236		
CH322-49I08 2R	13782344	13803344	estimated_end	13782344
	located_end	13803344		
CH322-49I10 2R	20320284	20341284	located_end	20320284
	estimated_end	20341284		

CH322-49I16 2R	15874756	15895756	estimated_end	15874756
	located_end	15895756		
CH322-49I20 X	11393588	11414588	estimated_end	11393588
	located_end	11414588		
CH322-49J03 2R	15875499	15896499	estimated_end	15875499
	located_end	15896499		
CH322-49J09 3L	3813928	3834928	located_end	3813928
	estimated_end	3834928		
CH322-49J17 2L	5816677	5837677	located_end	5816677
	estimated_end	5837677		
CH322-49J23 2L	2494498	2515498	estimated_end	2494498
	located_end	2515498		
CH322-49K01 3L	9600986	9621986	located_end	9600986
	estimated_end	9621986		
CH322-49K04 X	13745446	13766446	estimated_end	13745446
	located_end	13766446		
CH322-49K06 X	3854257	3875257	estimated_end	3854257
	located_end	3875257		
CH322-49K10 3R	14433902	14454902	estimated_end	14433902
	located_end	14454902		
CH322-49K16 2R	6262565	6283565	estimated_end	6262565
	located_end	6283565		
CH322-49K18 3L	17191293	17212293	located_end	17191293
	estimated_end	17212293		
CH322-49K22 X	8814566	8835566	located_end	8814566
	estimated_end	8835566		
CH322-49L12 2L	17336782	17357782	estimated_end	17336782
	located_end	17357782		
CH322-49L21 X	10937168	10958168	estimated_end	10937168
	located_end	10958168		
CH322-49L24 X	6349246	6370246	located_end	6349246
	estimated_end	6370246		
CH322-49M01 X	15050811	15071811	estimated_end	15050811
	located_end	15071811		
CH322-49M19 3R	3887294	3908294	estimated_end	3887294
	located_end	3908294		
CH322-49M20 3L	13248601	13269601	located_end	13248601
	estimated_end	13269601		
CH322-49N01 2R	12138899	12159899	located_end	12138899
	estimated_end	12159899		
CH322-49N04 3L	5108298	5129298	estimated_end	5108298
	located_end	5129298		
CH322-49N24 2R	4435794	4456794	estimated_end	4435794
	located_end	4456794		
CH322-49O10 2L	4657466	4678466	located_end	4657466
	estimated_end	4678466		
CH322-49O17 X	4576728	4597728	estimated_end	4576728
	located_end	4597728		
CH322-49O18 3R	3201750	3222750	located_end	3201750
	estimated_end	3222750		
CH322-49O20 2L	14279847	14300847	estimated_end	14279847
	located_end	14300847		
CH322-49O22 3L	13234179	13255179	estimated_end	13234179
	located_end	13255179		

CH322-49O23 3L	19641200	19662200	located_end	19641200
	estimated_end	19662200		
CH322-49O24 3R	20860135	20881135	estimated_end	20860135
	located_end	20881135		
CH322-49P03 2L	20317442	20338442	located_end	20317442
	estimated_end	20338442		
CH322-49P09 3R	13157015	13178015	located_end	13157015
	estimated_end	13178015		
CH322-49P11 3R	16445874	16466874	estimated_end	16445874
	located_end	16466874		
CH322-49P17 3R	3029216	3050216	located_end	3029216
	estimated_end	3050216		
CH322-49P23 2L	5575590	5596590	located_end	5575590
	estimated_end	5596590		
CH322-49P24 3L	21415168	21436168	located_end	21415168
	estimated_end	21436168		
CH322-50A01 3L	8045004	8066004	located_end	8045004
	estimated_end	8066004		
CH322-50A02 2R	14193819	14214819	located_end	14193819
	estimated_end	14214819		
CH322-50A04 2R	9280742	9301742	located_end	9280742
	estimated_end	9301742		
CH322-50A10 X	13814366	13835366	located_end	13814366
	estimated_end	13835366		
CH322-50A16 2R	15652189	15673189	estimated_end	15652189
	located_end	15673189		
CH322-50B01 X	21670599	21691599	located_end	21670599
	estimated_end	21691599		
CH322-50B02 X	21670599	21691599	located_end	21670599
	estimated_end	21691599		
CH322-50B07 3R	1440386	1461386	estimated_end	1440386
	located_end	1461386		
CH322-50B10 X	2147304	2168304	located_end	2147304
	estimated_end	2168304		
CH322-50B13 3R	10161438	10182438	located_end	10161438
	estimated_end	10182438		
CH322-50B14 3R	10161438	10182438	located_end	10161438
	estimated_end	10182438		
CH322-50B16 2R	6955772	6976772	located_end	6955772
	estimated_end	6976772		
CH322-50B21 2R	6880233	6901233	located_end	6880233
	estimated_end	6901233		
CH322-50B22 2R	6880233	6901233	located_end	6880233
	estimated_end	6901233		
CH322-50C07 3L	19832507	19853507	estimated_end	19832507
	located_end	19853507		
CH322-50C08 2R	18416791	18437791	located_end	18416791
	estimated_end	18437791		
CH322-50C13 3R	4283924	4304924	located_end	4283924
	estimated_end	4304924		
CH322-50C14 3R	13037809	13058809	estimated_end	13037809
	located_end	13058809		
CH322-50C15 2R	13033182	13054182	estimated_end	13033182
	located_end	13054182		

CH322-50C16 3R	26986160	27007160	estimated_end	26986160
	located_end	27007160		
CH322-50C18 3R	18847600	18868600	estimated_end	18847600
	located_end	18868600		
CH322-50D03 3L	21733038	21754038	estimated_end	21733038
	located_end	21754038		
CH322-50D05 3R	26166618	26187618	located_end	26166618
	estimated_end	26187618		
CH322-50D13 X	1284344	1305344	located_end	1284344
	estimated_end	1305344		
CH322-50D14 X	1284344	1305344	located_end	1284344
	estimated_end	1305344		
CH322-50D17 2L	4061323	4082323	estimated_end	4061323
	located_end	4082323		
CH322-50D20 2R	16008577	16029577	estimated_end	16008577
	located_end	16029577		
CH322-50D24 3R	24526825	24547825	located_end	24526825
	estimated_end	24547825		
CH322-50E01 3L	10688313	10709313	located_end	10688313
	estimated_end	10709313		
CH322-50E03 X	15250842	15271842	estimated_end	15250842
	located_end	15271842		
CH322-50E04 3R	546617	567617	estimated_end	546617
	located_end	567617		
CH322-50E09 2RHet	1673654	1694654	located_end	1673654
	estimated_end	1694654		
CH322-50E14 3R	17593275	17614275	estimated_end	17593275
	located_end	17614275		
CH322-50E15 2R	20444087	20465087	located_end	20444087
	estimated_end	20465087		
CH322-50E16 2L	21953489	21974489	located_end	21953489
	estimated_end	21974489		
CH322-50E18 3R	12622439	12643439	located_end	12622439
	estimated_end	12643439		
CH322-50E19 X	5329681	5350681	estimated_end	5329681
	located_end	5350681		
CH322-50F01 X	17497505	17518505	estimated_end	17497505
	located_end	17518505		
CH322-50F02 X	17497505	17518505	estimated_end	17497505
	located_end	17518505		
CH322-50F03 3L	12819716	12840716	estimated_end	12819716
	located_end	12840716		
CH322-50F04 3L	12819716	12840716	estimated_end	12819716
	located_end	12840716		
CH322-50F06 3R	1792778	1813778	estimated_end	1792778
	located_end	1813778		
CH322-50F09 2L	18302071	18323071	estimated_end	18302071
	located_end	18323071		
CH322-50F11 2RHet	3182191	3203191	located_end	3182191
	estimated_end	3203191		
CH322-50F12 2RHet	3182148	3203148	located_end	3182148
	estimated_end	3203148		
CH322-50F16 3R	144706	165706	located_end	144706
	estimated_end	165706		

CH322-50F20 2R	9068271	9089271	estimated_end	9068271
	located_end	9089271		
CH322-50F22 3L	6134794	6155794	located_end	6134794
	estimated_end	6155794		
CH322-50G01 3R	7909270	7930270	estimated_end	7909270
	located_end	7930270		
CH322-50G06 3R	9067667	9088667	estimated_end	9067667
	located_end	9088667		
CH322-50G08 2R	3797928	3818928	estimated_end	3797928
	located_end	3818928		
CH322-50G09 3R	4808919	4829919	estimated_end	4808919
	located_end	4829919		
CH322-50G10 3R	19808622	19829622	estimated_end	19808622
	located_end	19829622		
CH322-50G12 2R	17278625	17299625	located_end	17278625
	estimated_end	17299625		
CH322-50G15 X	18114406	18135406	estimated_end	18114406
	located_end	18135406		
CH322-50G17 2R	14042361	14063361	located_end	14042361
	estimated_end	14063361		
CH322-50G18 3R	868725	889725	estimated_end	868725
	located_end	889725		
CH322-50G19 X	5048375	5069375	estimated_end	5048375
	located_end	5069375		
CH322-50G21 3L	11984911	12005911	estimated_end	11984911
	located_end	12005911		
CH322-50G24 2R	4212610	4233610	estimated_end	4212610
	located_end	4233610		
CH322-50H01 3R	2456179	2477179	located_end	2456179
	estimated_end	2477179		
CH322-50H07 3R	5705505	5726505	located_end	5705505
	estimated_end	5726505		
CH322-50H08 3L	21379662	21400662	located_end	21379662
	estimated_end	21400662		
CH322-50H09 2L	8330751	8351751	estimated_end	8330751
	located_end	8351751		
CH322-50H10 2L	8330751	8351751	estimated_end	8330751
	located_end	8351751		
CH322-50H11 3R	21535104	21556104	located_end	21535104
	estimated_end	21556104		
CH322-50H12 3R	21535104	21556104	located_end	21535104
	estimated_end	21556104		
CH322-50H13 2R	16121438	16142438	located_end	16121438
	estimated_end	16142438		
CH322-50H21 3L	2414743	2435743	located_end	2414743
	estimated_end	2435743		
CH322-50H23 3R	24499327	24520327	estimated_end	24499327
	located_end	24520327		
CH322-50H24 3R	24499247	24520247	located_end	24499247
	estimated_end	24520247		
CH322-50I04 2R	18616845	18637845	estimated_end	18616845
	located_end	18637845		
CH322-50I08 3R	15882706	15903706	estimated_end	15882706
	located_end	15903706		

CH322-50I11 2RHet	1416780	1437780	estimated_end	1416780
	located_end	1437780		
CH322-50I13 X	14311918	14332918	estimated_end	14311918
	located_end	14332918		
CH322-50I15 3R	15469038	15490038	estimated_end	15469038
	located_end	15490038		
CH322-50I17 3L	8560562	8581562	estimated_end	8560562
	located_end	8581562		
CH322-50I21 3L	10313494	10334494	estimated_end	10313494
	located_end	10334494		
CH322-50I23 2R	13997437	14018437	located_end	13997437
	estimated_end	14018437		
CH322-50J05 3R	13230937	13251937	estimated_end	13230937
	located_end	13251937		
CH322-50J10 2R	14543181	14564181	estimated_end	14543181
	located_end	14564181		
CH322-50J12 3L	19951867	19972867	located_end	19951867
	estimated_end	19972867		
CH322-50J13 3R	5019078	5040078	estimated_end	5019078
	located_end	5040078		
CH322-50J15 3L	18930171	18951171	estimated_end	18930171
	located_end	18951171		
CH322-50J16 3L	18930171	18951171	estimated_end	18930171
	located_end	18951171		
CH322-50J17 2L	6055518	6076518	estimated_end	6055518
	located_end	6076518		
CH322-50J18 2L	6055518	6076518	estimated_end	6055518
	located_end	6076518		
CH322-50J19 3L	18289451	18310451	located_end	18289451
	estimated_end	18310451		
CH322-50J20 3L	18289451	18310451	located_end	18289451
	estimated_end	18310451		
CH322-50J21 2L	3089857	3110857	estimated_end	3089857
	located_end	3110857		
CH322-50J22 2L	3089834	3110834	estimated_end	3089834
	located_end	3110834		
CH322-50K01 3L	19485924	19506924	located_end	19485924
	estimated_end	19506924		
CH322-50K04 3R	10727457	10748457	located_end	10727457
	estimated_end	10748457		
CH322-50K05 X	20922166	20943166	estimated_end	20922166
	located_end	20943166		
CH322-50K08 3R	19128188	19149188	located_end	19128188
	estimated_end	19149188		
CH322-50K09 3L	17546360	17567360	located_end	17546360
	estimated_end	17567360		
CH322-50K19 2R	20432820	20453820	estimated_end	20432820
	located_end	20453820		
CH322-50K20 3R	8072667	8093667	estimated_end	8072667
	located_end	8093667		
CH322-50K22 3L	15726513	15747513	estimated_end	15726513
	located_end	15747513		
CH322-50K24 3R	13680912	13701912	estimated_end	13680912
	located_end	13701912		

CH322-50L02 X	2481032	2502032	located_end	2481032
	estimated_end	2502032		
CH322-50L03 2L	1383810	1404810	estimated_end	1383810
	located_end	1404810		
CH322-50L12 3R	15942448	15963448	estimated_end	15942448
	located_end	15963448		
CH322-50L13 2L	11524304	11545304	located_end	11524304
	estimated_end	11545304		
CH322-50L14 2L	11524304	11545304	located_end	11524304
	estimated_end	11545304		
CH322-50L15 2R	12402813	12423813	located_end	12402813
	estimated_end	12423813		
CH322-50L17 2R	6182745	6203745	located_end	6182745
	estimated_end	6203745		
CH322-50L20 3R	8073138	8094138	located_end	8073138
	estimated_end	8094138		
CH322-50L21 3L	12907838	12928838	estimated_end	12907838
	located_end	12928838		
CH322-50M02 4	889927	910927	estimated_end	889927
	located_end	910927		
CH322-50M03 3R	11541493	11562493	located_end	11541493
	estimated_end	11562493		
CH322-50M06 2R	15937324	15958324	located_end	15937324
	estimated_end	15958324		
CH322-50M08 3R	18795922	18816922	estimated_end	18795922
	located_end	18816922		
CH322-50M10 2L	11423144	11444144	located_end	11423144
	estimated_end	11444144		
CH322-50M12 2L	3478412	3499412	estimated_end	3478412
	located_end	3499412		
CH322-50M14 3L	11747341	11768341	located_end	11747341
	estimated_end	11768341		
CH322-50M16 3L	3024807	3045807	located_end	3024807
	estimated_end	3045807		
CH322-50M18 3R	6087610	6108610	estimated_end	6087610
	located_end	6108610		
CH322-50M20 2R	14597433	14618433	located_end	14597433
	estimated_end	14618433		
CH322-50M21 3R	8792078	8813078	located_end	8792078
	estimated_end	8813078		
CH322-50N02 4	889927	910927	estimated_end	889927
	located_end	910927		
CH322-50N03 3L	9634409	9655409	located_end	9634409
	estimated_end	9655409		
CH322-50N05 3L	8977445	8998445	estimated_end	8977445
	located_end	8998445		
CH322-50N07 2L	18075147	18096147	estimated_end	18075147
	located_end	18096147		
CH322-50N13 3L	7233114	7254114	located_end	7233114
	estimated_end	7254114		
CH322-50N15 3L	3529302	3550302	estimated_end	3529302
	located_end	3550302		
CH322-50N17 3R	24799867	24820867	located_end	24799867
	estimated_end	24820867		

CH322-50N18 3R	24799867	24820867	located_end 24799867
	estimated_end	24820867	
CH322-50N22 X	5771490	5792490	estimated_end 5771490
	located_end	5792490	
CH322-50O02 3L	15719894	15740894	located_end 15719894
	estimated_end	15740894	
CH322-50O03 X	16598188	16619188	estimated_end 16598188
	located_end	16619188	
CH322-50O04 3R	359241	380241	estimated_end 359241
	located_end	380241	
CH322-50O05 X	17851693	17872693	located_end 17851693
	estimated_end	17872693	
CH322-50O07 3L	13903048	13924048	located_end 13903048
	estimated_end	13924048	
CH322-50O11 3R	11758551	11779551	estimated_end 11758551
	located_end	11779551	
CH322-50O12 X	6385949	6406949	located_end 6385949
	estimated_end	6406949	
CH322-50O14 3L	5837713	5858713	estimated_end 5837713
	located_end	5858713	
CH322-50O15 3LHet	322773	343773	located_end 322773
	estimated_end	343773	
CH322-50O16 3R	21187427	21208427	located_end 21187427
	estimated_end	21208427	
CH322-50O18 3L	22857015	22878015	estimated_end 22857015
	located_end	22878015	
CH322-50O20 3R	3012240	3033240	located_end 3012240
	estimated_end	3033240	
CH322-50O24 2R	19663547	19684547	located_end 19663547
	estimated_end	19684547	
CH322-50P09 3R	7560646	7581646	estimated_end 7560646
	located_end	7581646	
CH322-50P10 3R	7560646	7581646	estimated_end 7560646
	located_end	7581646	
CH322-50P13 ArmU	2603127	2624127	located_end 2603127
	estimated_end	2624127	
CH322-50P16 2L	4851198	4872198	estimated_end 4851198
	located_end	4872198	
CH322-50P17 2L	9647354	9668354	located_end 9647354
	estimated_end	9668354	
CH322-50P21 2L	8317636	8338636	estimated_end 8317636
	located_end	8338636	
CH322-50P23 2R	6242883	6263883	estimated_end 6242883
	located_end	6263883	
CH322-51A06 3R	7187269	7208269	located_end 7187269
	estimated_end	7208269	
CH322-51A12 3R	17340236	17361236	located_end 17340236
	estimated_end	17361236	
CH322-51A13 3R	23255051	23276051	located_end 23255051
	estimated_end	23276051	
CH322-51A17 3R	16111317	16132317	located_end 16111317
	estimated_end	16132317	
CH322-51A18 2R	18501313	18522313	estimated_end 18501313
	located_end	18522313	

CH322-51A19 2R	10846339	10867339	estimated_end	10846339
	located_end	10867339		
CH322-51A21 X	4055446	4076446	estimated_end	4055446
	located_end	4076446		
CH322-51A24 4	716695	737695	located_end	716695
	estimated_end	737695		
CH322-51B04 2R	4549619	4570619	estimated_end	4549619
	located_end	4570619		
CH322-51B08 3R	3214360	3235360	located_end	3214360
	estimated_end	3235360		
CH322-51B13 2RHet	1968309	1989309	located_end	1968309
	estimated_end	1989309		
CH322-51B18 2L	4234679	4255679	estimated_end	4234679
	located_end	4255679		
CH322-51B24 2R	9252359	9273359	located_end	9252359
	estimated_end	9273359		
CH322-51C07 2L	64717	85717	located_end	64717
	estimated_end	85717		
CH322-51C09 3L	9346074	9367074	located_end	9346074
	estimated_end	9367074		
CH322-51C13 X	3659032	3680032	located_end	3659032
	estimated_end	3680032		
CH322-51C14 2R	19012420	19033420	estimated_end	19012420
	located_end	19033420		
CH322-51C16 2L	16384137	16405137	located_end	16384137
	estimated_end	16405137		
CH322-51C18 X	12515735	12536735	located_end	12515735
	estimated_end	12536735		
CH322-51C19 2R	9492487	9513487	estimated_end	9492487
	located_end	9513487		
CH322-51C21 2R	43690	64690	located_end	43690
	estimated_end	64690		
CH322-51D01 2L	14736744	14757744	estimated_end	14736744
	located_end	14757744		
CH322-51D03 2L	20503148	20524148	located_end	20503148
	estimated_end	20524148		
CH322-51D04 X	3753077	3774077	located_end	3753077
	estimated_end	3774077		
CH322-51D09 2R	3014420	3035420	estimated_end	3014420
	located_end	3035420		
CH322-51D12 3R	1160164	1181164	located_end	1160164
	estimated_end	1181164		
CH322-51D15 3L	2813229	2834229	located_end	2813229
	estimated_end	2834229		
CH322-51D18 2R	4950057	4971057	located_end	4950057
	estimated_end	4971057		
CH322-51D19 3L	1333241	1354241	located_end	1333241
	estimated_end	1354241		
CH322-51D21 3L	6088912	6109912	estimated_end	6088912
	located_end	6109912		
CH322-51D23 ArmU	5698678	5719678	located_end	5698678
	estimated_end	5719678		
CH322-51D24 2L	4987203	5008203	estimated_end	4987203
	located_end	5008203		
CH322-51E02 3R	7404487	7425487	located_end	7404487
	estimated_end	7425487		

CH322-51E05 ArmU	1255710	1276710	located_end	1255710
	estimated_end	1276710		
CH322-51E07 2L	22896187	22917187	estimated_end	22896187
	located_end	22917187		
CH322-51E08 2L	4579925	4600925	located_end	4579925
	estimated_end	4600925		
CH322-51E15 2L	13327992	13348992	located_end	13327992
	estimated_end	13348992		
CH322-51E17 2L	13753006	13774006	located_end	13753006
	estimated_end	13774006		
CH322-51E21 2R	19718016	19739016	estimated_end	19718016
	located_end	19739016		
CH322-51E24 3L	23631382	23652382	located_end	23631382
	estimated_end	23652382		
CH322-51F01 3R	11539710	11560710	located_end	11539710
	estimated_end	11560710		
CH322-51F02 3R	16364246	16385246	estimated_end	16364246
	located_end	16385246		
CH322-51F05 3R	8035855	8056855	located_end	8035855
	estimated_end	8056855		
CH322-51F06 2L	11751404	11772404	estimated_end	11751404
	located_end	11772404		
CH322-51F07 X	2365920	2386920	located_end	2365920
	estimated_end	2386920		
CH322-51F08 3R	23792710	23813710	located_end	23792710
	estimated_end	23813710		
CH322-51F10 2L	1659686	1680686	located_end	1659686
	estimated_end	1680686		
CH322-51F11 3R	10152880	10173880	estimated_end	10152880
	located_end	10173880		
CH322-51F14 2R	2405879	2426879	located_end	2405879
	estimated_end	2426879		
CH322-51F15 3RHet	1421573	1442573	estimated_end	1421573
	located_end	1442573		
CH322-51F16 3L	7205308	7226308	located_end	7205308
	estimated_end	7226308		
CH322-51F19 2R	20013561	20034561	located_end	20013561
	estimated_end	20034561		
CH322-51F20 3L	7691977	7712977	estimated_end	7691977
	located_end	7712977		
CH322-51F24 3RHet	868715	889715	located_end	868715
	estimated_end	889715		
CH322-51G04 3L	16254660	16275660	located_end	16254660
	estimated_end	16275660		
CH322-51G05 X	22393248	22414248	estimated_end	22393248
	located_end	22414248		
CH322-51G06 2L	10125356	10146356	located_end	10125356
	estimated_end	10146356		
CH322-51G07 3R	25342301	25363301	estimated_end	25342301
	located_end	25363301		
CH322-51G10 2R	7509513	7530513	estimated_end	7509513
	located_end	7530513		
CH322-51G11 3L	3410486	3431486	located_end	3410486
	estimated_end	3431486		

CH322-51G13 2L	20671166	20692166	located_end	20671166
	estimated_end	20692166		
CH322-51G15 ArmU	8755183	8776183	located_end	8755183
	estimated_end	8776183		
CH322-51G22 3L	8758739	8779739	located_end	8758739
	estimated_end	8779739		
CH322-51H03 2L	16274375	16295375	located_end	16274375
	estimated_end	16295375		
CH322-51H04 3L	15044596	15065596	estimated_end	15044596
	located_end	15065596		
CH322-51H10 3R	1628917	1649917	located_end	1628917
	estimated_end	1649917		
CH322-51H11 2L	22904471	22925471	estimated_end	22904471
	located_end	22925471		
CH322-51H16 2R	935520	956520	estimated_end	935520
	located_end	956520		
CH322-51H18 2R	18020624	18041624	located_end	18020624
	estimated_end	18041624		
CH322-51H22 2R	1013576	1034576	located_end	1013576
	estimated_end	1034576		
CH322-51I04 2L	4938787	4959787	estimated_end	4938787
	located_end	4959787		
CH322-51I08 2L	15723634	15744634	estimated_end	15723634
	located_end	15744634		
CH322-51I11 3L	14197019	14218019	located_end	14197019
	estimated_end	14218019		
CH322-51I12 3R	2006964	2027964	estimated_end	2006964
	located_end	2027964		
CH322-51I13 2L	5670487	5691487	located_end	5670487
	estimated_end	5691487		
CH322-51I14 X	6227879	6248879	estimated_end	6227879
	located_end	6248879		
CH322-51I15 3R	1716971	1737971	located_end	1716971
	estimated_end	1737971		
CH322-51I22 X	21858196	21879196	estimated_end	21858196
	located_end	21879196		
CH322-51I23 2R	18784994	18805994	located_end	18784994
	estimated_end	18805994		
CH322-51I24 X	7271863	7292863	located_end	7271863
	estimated_end	7292863		
CH322-51J04 2R	17250155	17271155	located_end	17250155
	estimated_end	17271155		
CH322-51J07 3R	20266963	20287963	estimated_end	20266963
	located_end	20287963		
CH322-51J09 3R	3594537	3615537	estimated_end	3594537
	located_end	3615537		
CH322-51J11 3L	10920617	10941617	located_end	10920617
	estimated_end	10941617		
CH322-51J12 2R	12744735	12765735	estimated_end	12744735
	located_end	12765735		
CH322-51J13 X	13023463	13044463	located_end	13023463
	estimated_end	13044463		
CH322-51J14 3L	19561092	19582092	located_end	19561092
	estimated_end	19582092		

CH322-51J20 2R	17328345	17349345	located_end	17328345
	estimated_end	17349345		
CH322-51J21 2R	1002650	1023650	estimated_end	1002650
	located_end	1023650		
CH322-51K06 3L	9115709	9136709	estimated_end	9115709
	located_end	9136709		
CH322-51K14 2R	4948546	4969546	estimated_end	4948546
	located_end	4969546		
CH322-51K17 2L	9664221	9685221	estimated_end	9664221
	located_end	9685221		
CH322-51K19 3L	7185743	7206743	estimated_end	7185743
	located_end	7206743		
CH322-51K22 2R	18326321	18347321	located_end	18326321
	estimated_end	18347321		
CH322-51K24 3R	12310599	12331599	estimated_end	12310599
	located_end	12331599		
CH322-51L03 2L	4580913	4601913	estimated_end	4580913
	located_end	4601913		
CH322-51L05 X	4971340	4992340	located_end	4971340
	estimated_end	4992340		
CH322-51L08 3L	10090464	10111464	located_end	10090464
	estimated_end	10111464		
CH322-51L10 X	12910136	12931136	estimated_end	12910136
	located_end	12931136		
CH322-51L12 3R	14682471	14703471	estimated_end	14682471
	located_end	14703471		
CH322-51L14 2L	14843489	14864489	located_end	14843489
	estimated_end	14864489		
CH322-51L18 3R	12771103	12792103	located_end	12771103
	estimated_end	12792103		
CH322-51M04 3L	3860145	3881145	located_end	3860145
	estimated_end	3881145		
CH322-51M09 3R	25426040	25447040	located_end	25426040
	estimated_end	25447040		
CH322-51M11 X	175919	196919	located_end	175919
	estimated_end	196919		
CH322-51M15 3R	27291138	27312138	located_end	27291138
	estimated_end	27312138		
CH322-51M16 2L	1429893	1450893	located_end	1429893
	estimated_end	1450893		
CH322-51M17 X	20767542	20788542	estimated_end	20767542
	located_end	20788542		
CH322-51M23 2R	770433	791433	estimated_end	770433
	located_end	791433		
CH322-51M24 3L	3529635	3550635	located_end	3529635
	estimated_end	3550635		
CH322-51N05 3R	9348988	9369988	estimated_end	9348988
	located_end	9369988		
CH322-51N10 3R	17753045	17774045	located_end	17753045
	estimated_end	17774045		
CH322-51N14 2L	20634925	20655925	located_end	20634925
	estimated_end	20655925		
CH322-51N16 3L	12067033	12088033	located_end	12067033
	estimated_end	12088033		

CH322-51N17 3R	7051971	7072971	estimated_end	7051971
	located_end	7072971		
CH322-51N20 2L	12002002	12023002	estimated_end	12002002
	located_end	12023002		
CH322-51N21 3L	20125081	20146081	located_end	20125081
	estimated_end	20146081		
CH322-51O02 3R	22640944	22661944	estimated_end	22640944
	located_end	22661944		
CH322-51O04 2L	18236064	18257064	located_end	18236064
	estimated_end	18257064		
CH322-51O05 3L	3561688	3582688	estimated_end	3561688
	located_end	3582688		
CH322-51O09 X	4814480	4835480	located_end	4814480
	estimated_end	4835480		
CH322-51O11 3L	10025363	10046363	estimated_end	10025363
	located_end	10046363		
CH322-51O15 2L	2352333	2373333	located_end	2352333
	estimated_end	2373333		
CH322-51O16 3L	18756081	18777081	located_end	18756081
	estimated_end	18777081		
CH322-51O19 2L	4987203	5008203	estimated_end	4987203
	located_end	5008203		
CH322-51O21 2L	1034765	1055765	estimated_end	1034765
	located_end	1055765		
CH322-51O22 3R	3153709	3174709	estimated_end	3153709
	located_end	3174709		
CH322-51O23 3R	26580048	26601048	estimated_end	26580048
	located_end	26601048		
CH322-51P03 2R	17786701	17807701	located_end	17786701
	estimated_end	17807701		
CH322-51P07 3L	15593177	15614177	located_end	15593177
	estimated_end	15614177		
CH322-51P09 3L	21096094	21117094	located_end	21096094
	estimated_end	21117094		
CH322-51P10 3R	10583262	10604262	located_end	10583262
	estimated_end	10604262		
CH322-51P14 2R	3843798	3864798	estimated_end	3843798
	located_end	3864798		
CH322-51P16 X	2971221	2992221	estimated_end	2971221
	located_end	2992221		
CH322-51P20 3L	18756081	18777081	located_end	18756081
	estimated_end	18777081		
CH322-51P21 2L	4606591	4627591	estimated_end	4606591
	located_end	4627591		
CH322-51P22 ArmU	133644	154644	located_end	133644
	estimated_end	154644		
CH322-51P23 3L	15311868	15332868	located_end	15311868
	estimated_end	15332868		
CH322-52A01 X	1640362	1661362	located_end	1640362
	estimated_end	1661362		
CH322-52A03 2L	1984983	2005983	estimated_end	1984983
	located_end	2005983		
CH322-52A04 3R	20973235	20994235	estimated_end	20973235
	located_end	20994235		

CH322-52A05 2R	20067037	20088037	estimated_end	20067037
	located_end	20088037		
CH322-52A08 2R	12692887	12713887	estimated_end	12692887
	located_end	12713887		
CH322-52A09 2L	7187969	7208969	located_end	7187969
	estimated_end	7208969		
CH322-52A11 X	17036869	17057869	located_end	17036869
	estimated_end	17057869		
CH322-52A12 3L	17284542	17305542	estimated_end	17284542
	located_end	17305542		
CH322-52A13 3R	25532339	25553339	located_end	25532339
	estimated_end	25553339		
CH322-52A14 X	4577515	4598515	located_end	4577515
	estimated_end	4598515		
CH322-52A16 3R	7273201	7294201	estimated_end	7273201
	located_end	7294201		
CH322-52A18 2R	4081707	4102707	located_end	4081707
	estimated_end	4102707		
CH322-52A19 X	2647040	2668040	located_end	2647040
	estimated_end	2668040		
CH322-52A20 3R	8269734	8290734	estimated_end	8269734
	located_end	8290734		
CH322-52A21 2R	7577082	7598082	located_end	7577082
	estimated_end	7598082		
CH322-52A23 2L	21058293	21079293	estimated_end	21058293
	located_end	21079293		
CH322-52A24 3R	25141619	25162619	estimated_end	25141619
	located_end	25162619		
CH322-52B01 3R	705248	726248	estimated_end	705248
	located_end	726248		
CH322-52B02 ArmU	1326563	1347563	located_end	1326563
	estimated_end	1347563		
CH322-52B04 X	6771009	6792009	located_end	6771009
	estimated_end	6792009		
CH322-52B05 2L	7697115	7718115	estimated_end	7697115
	located_end	7718115		
CH322-52B06 2L	18221501	18242501	estimated_end	18221501
	located_end	18242501		
CH322-52B07 3L	20236481	20257481	estimated_end	20236481
	located_end	20257481		
CH322-52B08 3R	8660419	8681419	estimated_end	8660419
	located_end	8681419		
CH322-52B09 3R	18813964	18834964	located_end	18813964
	estimated_end	18834964		
CH322-52B11 2R	18382012	18403012	located_end	18382012
	estimated_end	18403012		
CH322-52B12 3L	7968601	7989601	located_end	7968601
	estimated_end	7989601		
CH322-52B14 3R	23226386	23247386	located_end	23226386
	estimated_end	23247386		
CH322-52B15 2L	19891422	19912422	estimated_end	19891422
	located_end	19912422		
CH322-52B18 3L	13321099	13342099	located_end	13321099
	estimated_end	13342099		

CH322-52B21 2R	11882749	11903749	estimated_end	11882749
	located_end	11903749		
CH322-52B22 2R	6881749	6902749	located_end	6881749
	estimated_end	6902749		
CH322-52B23 X	16139248	16160248	estimated_end	16139248
	located_end	16160248		
CH322-52B24 3L	4577558	4598558	estimated_end	4577558
	located_end	4598558		
CH322-52C02 3L	2939037	2960037	estimated_end	2939037
	located_end	2960037		
CH322-52C03 2L	20503271	20524271	located_end	20503271
	estimated_end	20524271		
CH322-52C04 3L	17436315	17457315	estimated_end	17436315
	located_end	17457315		
CH322-52C05 2R	4663556	4684556	located_end	4663556
	estimated_end	4684556		
CH322-52C09 X	4389028	4410028	estimated_end	4389028
	located_end	4410028		
CH322-52C14 3L	13863858	13884858	estimated_end	13863858
	located_end	13884858		
CH322-52C16 3L	8689684	8710684	estimated_end	8689684
	located_end	8710684		
CH322-52C17 3L	9926634	9947634	estimated_end	9926634
	located_end	9947634		
CH322-52C18 2L	3523522	3544522	located_end	3523522
	estimated_end	3544522		
CH322-52C19 3L	684386	705386	located_end	684386
	estimated_end	705386		
CH322-52C21 3L	10222633	10243633	estimated_end	10222633
	located_end	10243633		
CH322-52C22 2R	17249411	17270411	estimated_end	17249411
	located_end	17270411		
CH322-52C24 3L	17872687	17893687	estimated_end	17872687
	located_end	17893687		
CH322-52D02 2R	3922116	3943116	estimated_end	3922116
	located_end	3943116		
CH322-52D03 2L	18604809	18625809	located_end	18604809
	estimated_end	18625809		
CH322-52D04 2L	19876113	19897113	estimated_end	19876113
	located_end	19897113		
CH322-52D05 X	5095864	5116864	estimated_end	5095864
	located_end	5116864		
CH322-52D06 3R	15506983	15527983	estimated_end	15506983
	located_end	15527983		
CH322-52D07 X	21782586	21803586	estimated_end	21782586
	located_end	21803586		
CH322-52D08 3R	3636832	3657832	estimated_end	3636832
	located_end	3657832		
CH322-52D10 2R	14442088	14463088	located_end	14442088
	estimated_end	14463088		
CH322-52D11 3RHet	1976727	1997727	estimated_end	1976727
	located_end	1997727		
CH322-52D12 3R	2167249	2188249	located_end	2167249
	estimated_end	2188249		

CH322-52D18 3R	17990757	18011757	located_end	17990757
	estimated_end	18011757		
CH322-52D21 2R	5907854	5928854	located_end	5907854
	estimated_end	5928854		
CH322-52D23 2L	3078295	3099295	located_end	3078295
	estimated_end	3099295		
CH322-52E01 3R	403976	424976	estimated_end	403976
	located_end	424976		
CH322-52E04 2L	22405879	22426879	estimated_end	22405879
	located_end	22426879		
CH322-52E06 3L	13821251	13842251	estimated_end	13821251
	located_end	13842251		
CH322-52E07 X	15479520	15500520	estimated_end	15479520
	located_end	15500520		
CH322-52E08 3L	6487967	6508967	located_end	6487967
	estimated_end	6508967		
CH322-52E11 X	19902844	19923844	located_end	19902844
	estimated_end	19923844		
CH322-52E12 3R	707890	728890	estimated_end	707890
	located_end	728890		
CH322-52E13 3L	18353218	18374218	located_end	18353218
	estimated_end	18374218		
CH322-52E14 X	18528299	18549299	located_end	18528299
	estimated_end	18549299		
CH322-52E15 3R	16701878	16722878	estimated_end	16701878
	located_end	16722878		
CH322-52E16 2L	5274749	5295749	estimated_end	5274749
	located_end	5295749		
CH322-52E17 3L	1541220	1562220	located_end	1541220
	estimated_end	1562220		
CH322-52E21 2R	1924258	1945258	estimated_end	1924258
	located_end	1945258		
CH322-52E23 X	17679416	17700416	located_end	17679416
	estimated_end	17700416		
CH322-52F01 3R	17077955	17098955	located_end	17077955
	estimated_end	17098955		
CH322-52F02 X	12497717	12518717	estimated_end	12497717
	located_end	12518717		
CH322-52F03 3R	11760681	11781681	located_end	11760681
	estimated_end	11781681		
CH322-52F04 2L	9709607	9730607	located_end	9709607
	estimated_end	9730607		
CH322-52F06 2L	1987641	2008641	located_end	1987641
	estimated_end	2008641		
CH322-52F11 2L	16634870	16655870	estimated_end	16634870
	located_end	16655870		
CH322-52F12 ArmU	913852	934852	located_end	913852
	estimated_end	934852		
CH322-52F13 3L	19419825	19440825	estimated_end	19419825
	located_end	19440825		
CH322-52F14 3LHet	564072	585072	located_end	564072
	estimated_end	585072		
CH322-52F16 3L	5451273	5472273	estimated_end	5451273
	located_end	5472273		

CH322-52F19 2R	16952248	16973248	located_end	16952248
	estimated_end	16973248		
CH322-52F20 3R	10364067	10385067	estimated_end	10364067
	located_end	10385067		
CH322-52G01 2R	14584615	14605615	estimated_end	14584615
	located_end	14605615		
CH322-52G04 2R	12719194	12740194	estimated_end	12719194
	located_end	12740194		
CH322-52G05 2L	13458709	13479709	estimated_end	13458709
	located_end	13479709		
CH322-52G07 3L	9796324	9817324	estimated_end	9796324
	located_end	9817324		
CH322-52G09 2R	12556841	12577841	estimated_end	12556841
	located_end	12577841		
CH322-52G12 3R	22920689	22941689	located_end	22920689
	estimated_end	22941689		
CH322-52G13 3R	26817026	26838026	located_end	26817026
	estimated_end	26838026		
CH322-52G15 2L	6280066	6301066	estimated_end	6280066
	located_end	6301066		
CH322-52G16 2L	13344122	13365122	located_end	13344122
	estimated_end	13365122		
CH322-52G17 2R	7874566	7895566	located_end	7874566
	estimated_end	7895566		
CH322-52G18 2R	9645351	9666351	estimated_end	9645351
	located_end	9666351		
CH322-52G21 3L	993609	1014609	estimated_end	993609
	located_end	1014609		
CH322-52G24 2RHet	2577867	2598867	estimated_end	2577867
	located_end	2598867		
CH322-52H01 X	6940668	6961668	located_end	6940668
	estimated_end	6961668		
CH322-52H02 X	4222101	4243101	located_end	4222101
	estimated_end	4243101		
CH322-52H03 3L	10686273	10707273	located_end	10686273
	estimated_end	10707273		
CH322-52H04 2L	21330298	21351298	located_end	21330298
	estimated_end	21351298		
CH322-52H06 3R	22677804	22698804	estimated_end	22677804
	located_end	22698804		
CH322-52H08 3R	14766197	14787197	located_end	14766197
	estimated_end	14787197		
CH322-52H11 2R	14901377	14922377	estimated_end	14901377
	located_end	14922377		
CH322-52I03 2R	3361799	3382799	estimated_end	3361799
	located_end	3382799		
CH322-52I04 2R	15911604	15932604	estimated_end	15911604
	located_end	15932604		
CH322-52I05 2L	17531210	17552210	estimated_end	17531210
	located_end	17552210		
CH322-52I06 2L	1198368	1219368	estimated_end	1198368
	located_end	1219368		
CH322-52I11 2L	16274580	16295580	estimated_end	16274580
	located_end	16295580		

CH322-52I13 2R	14617040	14638040	located_end	14617040
	estimated_end	14638040		
CH322-52I15 3R	20267985	20288985	located_end	20267985
	estimated_end	20288985		
CH322-52I17 3L	10920617	10941617	located_end	10920617
	estimated_end	10941617		
CH322-52I19 X	13023463	13044463	located_end	13023463
	estimated_end	13044463		
CH322-52I20 2R	1924258	1945258	estimated_end	1924258
	located_end	1945258		
CH322-52I21 3L	22100008	22121008	estimated_end	22100008
	located_end	22121008		
CH322-52I24 X	17679415	17700415	located_end	17679415
	estimated_end	17700415		
CH322-52J01 2L	5957574	5978574	located_end	5957574
	estimated_end	5978574		
CH322-52J02 3L	11752117	11773117	estimated_end	11752117
	located_end	11773117		
CH322-52J03 3R	4398370	4419370	estimated_end	4398370
	located_end	4419370		
CH322-52J04 3R	26499853	26520853	estimated_end	26499853
	located_end	26520853		
CH322-52J05 X	19709176	19730176	located_end	19709176
	estimated_end	19730176		
CH322-52J08 4	334966	355966	estimated_end	334966
	located_end	355966		
CH322-52J19 X	10318391	10339391	located_end	10318391
	estimated_end	10339391		
CH322-52J24 3R	22090828	22111828	located_end	22090828
	estimated_end	22111828		
CH322-52K01 3L	4664633	4685633	located_end	4664633
	estimated_end	4685633		
CH322-52K02 3L	23463188	23484188	estimated_end	23463188
	located_end	23484188		
CH322-52K03 3R	22825597	22846597	located_end	22825597
	estimated_end	22846597		
CH322-52K04 3L	16257896	16278896	located_end	16257896
	estimated_end	16278896		
CH322-52K05 3R	3172158	3193158	estimated_end	3172158
	located_end	3193158		
CH322-52K07 2R	9833957	9854957	located_end	9833957
	estimated_end	9854957		
CH322-52K13 3R	20968013	20989013	located_end	20968013
	estimated_end	20989013		
CH322-52K15 3R	8744403	8765403	located_end	8744403
	estimated_end	8765403		
CH322-52K17 3R	19723306	19744306	located_end	19723306
	estimated_end	19744306		
CH322-52K19 3R	3842605	3863605	located_end	3842605
	estimated_end	3863605		
CH322-52K22 2L	18565220	18586220	located_end	18565220
	estimated_end	18586220		
CH322-52K23 2R	20361149	20382149	located_end	20361149
	estimated_end	20382149		

CH322-52L01 3R	24374216	24395216	located_end	24374216
	estimated_end	24395216		
CH322-52L03 X	6100940	6121940	located_end	6100940
	estimated_end	6121940		
CH322-52L06 2L	7452980	7473980	estimated_end	7452980
	located_end	7473980		
CH322-52L11 X	857430	878430	located_end	857430
	estimated_end	878430		
CH322-52L12 2L	20730480	20751480	estimated_end	20730480
	located_end	20751480		
CH322-52L13 X	11174609	11195609	estimated_end	11174609
	located_end	11195609		
CH322-52L17 X	9697947	9718947	estimated_end	9697947
	located_end	9718947		
CH322-52L18 X	556793	577793	estimated_end	556793
	located_end	577793		
CH322-52L23 X	9103610	9124610	located_end	9103610
	estimated_end	9124610		
CH322-52L24 3R	23944372	23965372	estimated_end	23944372
	located_end	23965372		
CH322-52M02 X	15479520	15500520	estimated_end	15479520
	located_end	15500520		
CH322-52M03 3L	11893775	11914775	estimated_end	11893775
	located_end	11914775		
CH322-52M10 3L	993609	1014609	estimated_end	993609
	located_end	1014609		
CH322-52M12 2R	7874566	7895566	located_end	7874566
	estimated_end	7895566		
CH322-52M13 2L	10985555	11006555	located_end	10985555
	estimated_end	11006555		
CH322-52M14 2L	6280067	6301067	estimated_end	6280067
	located_end	6301067		
CH322-52M17 3R	22057850	22078850	estimated_end	22057850
	located_end	22078850		
CH322-52M18 X	1653705	1674705	estimated_end	1653705
	located_end	1674705		
CH322-52M21 2L	1650637	1671637	located_end	1650637
	estimated_end	1671637		
CH322-52M23 3RHet	645049	666049	estimated_end	645049
	located_end	666049		
CH322-52N01 3L	19304704	19325704	estimated_end	19304704
	located_end	19325704		
CH322-52N02 X	16139248	16160248	estimated_end	16139248
	located_end	16160248		
CH322-52N04 3R	1040939	1061939	located_end	1040939
	estimated_end	1061939		
CH322-52N09 3R	16913385	16934385	located_end	16913385
	estimated_end	16934385		
CH322-52N15 3R	9250280	9271280	estimated_end	9250280
	located_end	9271280		
CH322-52N17 2R	6881669	6902669	located_end	6881669
	estimated_end	6902669		
CH322-52N22 3R	8565554	8586554	located_end	8565554
	estimated_end	8586554		

CH322-52N24 X	1146911	1167911	located_end	1146911
	estimated_end	1167911		
CH322-52O01 X	4143446	4164446	estimated_end	4143446
	located_end	4164446		
CH322-52O02 3R	3636831	3657831	estimated_end	3636831
	located_end	3657831		
CH322-52O04 2R	14441927	14462927	located_end	14441927
	estimated_end	14462927		
CH322-52O21 3L	11396812	11417812	located_end	11396812
	estimated_end	11417812		
CH322-52O22 2L	2501289	2522289	estimated_end	2501289
	located_end	2522289		
CH322-52O23 X	13729563	13750563	located_end	13729563
	estimated_end	13750563		
CH322-52O24 2R	10765775	10786775	estimated_end	10765775
	located_end	10786775		
CH322-52P01 3L	21648914	21669914	estimated_end	21648914
	located_end	21669914		
CH322-52P02 2R	10872278	10893278	located_end	10872278
	estimated_end	10893278		
CH322-52P03 3LHet	564072	585072	located_end	564072
	estimated_end	585072		
CH322-52P05 X	12497718	12518718	estimated_end	12497718
	located_end	12518718		
CH322-52P06 2R	581396	602396	estimated_end	581396
	located_end	602396		
CH322-52P07 2L	19876113	19897113	estimated_end	19876113
	located_end	19897113		
CH322-52P08 3R	23944373	23965373	estimated_end	23944373
	located_end	23965373		
CH322-52P10 3L	3744542	3765542	located_end	3744542
	estimated_end	3765542		
CH322-52P12 3L	11898302	11919302	estimated_end	11898302
	located_end	11919302		
CH322-52P13 3R	11960187	11981187	estimated_end	11960187
	located_end	11981187		
CH322-52P15 X	22240446	22261446	located_end	22240446
	estimated_end	22261446		
CH322-52P16 2L	1047797	1068797	estimated_end	1047797
	located_end	1068797		
CH322-52P19 X	798530	819530	located_end	798530
	estimated_end	819530		
CH322-52P21 X	18148522	18169522	located_end	18148522
	estimated_end	18169522		
CH322-52P22 3L	23086346	23107346	located_end	23086346
	estimated_end	23107346		
CH322-52P23 2L	9749377	9770377	located_end	9749377
	estimated_end	9770377		
CH322-53A12 2R	8720886	8741886	located_end	8720886
	estimated_end	8741886		
CH322-53A16 2L	17395186	17416186	located_end	17395186
	estimated_end	17416186		
CH322-53A19 3LHet	967948	988948	estimated_end	967948
	located_end	988948		

CH322-53A23 3L	2482127	2503127	located_end	2482127
	estimated_end	2503127		
CH322-53A24 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-53B07 3R	11050006	11071006	estimated_end	11050006
	located_end	11071006		
CH322-53B20 2R	8423070	8444070	located_end	8423070
	estimated_end	8444070		
CH322-53C10 3L	14389296	14410296	estimated_end	14389296
	located_end	14410296		
CH322-53C20 3R	3436758	3457758	located_end	3436758
	estimated_end	3457758		
CH322-53C22 3LHet	727948	748948	located_end	727948
	estimated_end	748948		
CH322-53D06 3LHet	1018012	1039012	located_end	1018012
	estimated_end	1039012		
CH322-53D07 X	12725304	12746304	located_end	12725304
	estimated_end	12746304		
CH322-53D08 X	4770929	4791929	located_end	4770929
	estimated_end	4791929		
CH322-53D19 3L	17971465	17992465	located_end	17971465
	estimated_end	17992465		
CH322-53D23 3L	14098753	14119753	estimated_end	14098753
	located_end	14119753		
CH322-53D24 3L	1122607	1143607	located_end	1122607
	estimated_end	1143607		
CH322-53E03 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-53E06 3R	24137648	24158648	located_end	24137648
	estimated_end	24158648		
CH322-53E10 3L	6713426	6734426	located_end	6713426
	estimated_end	6734426		
CH322-53E12 3RHet	2155091	2176091	located_end	2155091
	estimated_end	2176091		
CH322-53E23 2R	16003602	16024602	estimated_end	16003602
	located_end	16024602		
CH322-53E24 2R	15505881	15526881	located_end	15505881
	estimated_end	15526881		
CH322-53F04 3L	7661825	7682825	located_end	7661825
	estimated_end	7682825		
CH322-53F16 X	19967950	19988950	located_end	19967950
	estimated_end	19988950		
CH322-53G04 2RHet	2255055	2276055	located_end	2255055
	estimated_end	2276055		
CH322-53G05 3R	22016686	22037686	located_end	22016686
	estimated_end	22037686		
CH322-53G08 3R	23804504	23825504	estimated_end	23804504
	located_end	23825504		
CH322-53G10 3L	23041309	23062309	estimated_end	23041309
	located_end	23062309		
CH322-53G13 3R	761323	782323	located_end	761323
	estimated_end	782323		
CH322-53G15 3L	5103101	5124101	estimated_end	5103101
	located_end	5124101		

CH322-53G23 X	15560899	15581899	estimated_end	15560899
	located_end	15581899		
CH322-53H09 2RHet	2834162	2855162	estimated_end	2834162
	located_end	2855162		
CH322-53H20 X	21765692	21786692	estimated_end	21765692
	located_end	21786692		
CH322-53I01 2R	91540 112540		located_end 91540	estimated_end
	112540			
CH322-53I24 3R	11717492	11738492	estimated_end	11717492
	located_end	11738492		
CH322-53J01 ArmU	3339113	3360113	located_end 3339113	
	estimated_end	3360113		
CH322-53J17 2R	539509	560509	estimated_end	539509
	located_end	560509		
CH322-53J21 3L	3957270	3978270	estimated_end	3957270
	located_end	3978270		
CH322-53J24 X	5230563	5251563	estimated_end	5230563
	located_end	5251563		
CH322-53K01 2R	8376694	8397694	located_end 8376694	
	estimated_end	8397694		
CH322-53K02 3L	19416595	19437595	estimated_end	19416595
	located_end	19437595		
CH322-53K20 X	19967950	19988950	located_end 19967950	
	estimated_end	19988950		
CH322-53K24 3L	2716103	2737103	located_end 2716103	
	estimated_end	2737103		
CH322-53L02 3L	119614	140614	estimated_end	119614
	located_end	140614		
CH322-53L08 3R	12563005	12584005	located_end 12563005	
	estimated_end	12584005		
CH322-53L16 3L	14277874	14298874	estimated_end	14277874
	located_end	14298874		
CH322-53L22 3LHet	1650455	1671455	located_end 1650455	
	estimated_end	1671455		
CH322-53L24 3R	3245537	3266537	located_end 3245537	
	estimated_end	3266537		
CH322-53M03 2L	22578219	22599219	estimated_end	22578219
	located_end	22599219		
CH322-53M24 2R	17090894	17111894	located_end 17090894	
	estimated_end	17111894		
CH322-53N05 2L	1082552	1103552	estimated_end	1082552
	located_end	1103552		
CH322-53N06 2RHet	1637341	1658341	estimated_end	1637341
	located_end	1658341		
CH322-53N17 3R	10849282	10870282	located_end 10849282	
	estimated_end	10870282		
CH322-53N20 2L	3257356	3278356	estimated_end	3257356
	located_end	3278356		
CH322-53O02 3L	19923894	19944894	estimated_end	19923894
	located_end	19944894		
CH322-53O06 3L	119614	140614	estimated_end	119614
	located_end	140614		
CH322-53O07 2L	8495508	8516508	located_end 8495508	
	estimated_end	8516508		

CH322-53010 X	15563251	15584251	located_end	15563251
	estimated_end	15584251		
CH322-53013 2R	14422076	14443076	estimated_end	14422076
	located_end	14443076		
CH322-53018 3L	10925272	10946272	located_end	10925272
	estimated_end	10946272		
CH322-53023 3R	6681661	6702661	estimated_end	6681661
	located_end	6702661		
CH322-53024 3L	6438168	6459168	located_end	6438168
	estimated_end	6459168		
CH322-53P01 3R	19328217	19349217	located_end	19328217
	estimated_end	19349217		
CH322-53P12 2L	21570461	21591461	estimated_end	21570461
	located_end	21591461		
CH322-53P13 X	12244174	12265174	estimated_end	12244174
	located_end	12265174		
CH322-53P15 3L	13314965	13335965	located_end	13314965
	estimated_end	13335965		
CH322-53P17 X	16525003	16546003	located_end	16525003
	estimated_end	16546003		
CH322-53P23 ArmU	9192670	9213670	estimated_end	9192670
	located_end	9213670		
CH322-54A13 4	1268736	1289736	estimated_end	1268736
	located_end	1289736		
CH322-54A18 3R	20689884	20710884	estimated_end	20689884
	located_end	20710884		
CH322-54A20 2L	9396101	9417101	estimated_end	9396101
	located_end	9417101		
CH322-54C03 ArmU	1547940	1568940	estimated_end	1547940
	located_end	1568940		
CH322-54C07 3R	7106305	7127305	located_end	7106305
	estimated_end	7127305		
CH322-54C08 3L	10780268	10801268	estimated_end	10780268
	located_end	10801268		
CH322-54C14 ArmU	9775223	9796223	estimated_end	9775223
	located_end	9796223		
CH322-54C19 3R	2633177	2654177	estimated_end	2633177
	located_end	2654177		
CH322-54C24 3R	17428606	17449606	estimated_end	17428606
	located_end	17449606		
CH322-54D03 2L	14130838	14151838	estimated_end	14130838
	located_end	14151838		
CH322-54D05 3LHet	1895551	1916551	located_end	1895551
	estimated_end	1916551		
CH322-54D07 2L	551539	572539	estimated_end	551539
	located_end	572539		
CH322-54D08 3L	23853216	23874216	estimated_end	23853216
	located_end	23874216		
CH322-54D19 ArmU	5467886	5488886	located_end	5467886
	estimated_end	5488886		
CH322-54D20 3R	73483	94483	located_end	73483
	estimated_end	94483		
CH322-54D23 X	13980844	14001844	located_end	13980844
	estimated_end	14001844		

CH322-54E15 2L	22645267	22666267	located_end	22645267
	estimated_end	22666267		
CH322-54E17 X	3809837	3830837	located_end	3809837
	estimated_end	3830837		
CH322-54E22 X	21256954	21277954	located_end	21256954
	estimated_end	21277954		
CH322-54E23 X	3572778	3593778	located_end	3572778
	estimated_end	3593778		
CH322-54F05 3L	7119017	7140017	located_end	7119017
	estimated_end	7140017		
CH322-54F10 3R	10585126	10606126	estimated_end	10585126
	located_end	10606126		
CH322-54F16 3R	14131585	14152585	estimated_end	14131585
	located_end	14152585		
CH322-54F21 X	16339899	16360899	estimated_end	16339899
	located_end	16360899		
CH322-54F23 3L	8603345	8624345	located_end	8603345
	estimated_end	8624345		
CH322-54G01 3RHet	2445405	2466405	located_end	2445405
	estimated_end	2466405		
CH322-54G02 2RHet	3200678	3221678	located_end	3200678
	estimated_end	3221678		
CH322-54G05 3L	13927588	13948588	estimated_end	13927588
	located_end	13948588		
CH322-54G11 X	6750360	6771360	estimated_end	6750360
	located_end	6771360		
CH322-54G12 3L	15313512	15334512	estimated_end	15313512
	located_end	15334512		
CH322-54G15 X	18115808	18136808	estimated_end	18115808
	located_end	18136808		
CH322-54G18 3R	20051635	20072635	estimated_end	20051635
	located_end	20072635		
CH322-54G23 3L	11557744	11578744	estimated_end	11557744
	located_end	11578744		
CH322-54G24 3R	22836989	22857989	estimated_end	22836989
	located_end	22857989		
CH322-54H02 ArmU	2181232	2202232	estimated_end	2181232
	located_end	2202232		
CH322-54H12 2R	7275211	7296211	located_end	7275211
	estimated_end	7296211		
CH322-54H21 3LHet	930632	951632	located_end	930632
	estimated_end	951632		
CH322-54I06 3R	21481402	21502402	located_end	21481402
	estimated_end	21502402		
CH322-54I23 2L	3333352	3354352	located_end	3333352
	estimated_end	3354352		
CH322-54I24 2L	8379950	8400950	estimated_end	8379950
	located_end	8400950		
CH322-54J15 3RHet	2444665	2465665	located_end	2444665
	estimated_end	2465665		
CH322-54J22 2L	16709961	16730961	located_end	16709961
	estimated_end	16730961		
CH322-54J23 3R	20475116	20496116	estimated_end	20475116
	located_end	20496116		

CH322-54J24 2L	551539	572539	estimated_end	551539
	located_end	572539		
CH322-54K06 X	11732640	11753640	estimated_end	11732640
	located_end	11753640		
CH322-54K08 2L	3333352	3354352	located_end	3333352
	estimated_end	3354352		
CH322-54K12 2L	22645267	22666267	located_end	22645267
	estimated_end	22666267		
CH322-54K16 X	5142464	5163464	located_end	5142464
	estimated_end	5163464		
CH322-54K24 X	14184741	14205741	located_end	14184741
	estimated_end	14205741		
CH322-54L06 ArmU	7840041	7861041	estimated_end	7840041
	located_end	7861041		
CH322-54L08 2R	11998468	12019468	located_end	11998468
	estimated_end	12019468		
CH322-54L09 3RHet	1131777	1152777	estimated_end	1131777
	located_end	1152777		
CH322-54L12 2RHet	2447361	2468361	located_end	2447361
	estimated_end	2468361		
CH322-54L13 3R	15267203	15288203	estimated_end	15267203
	located_end	15288203		
CH322-54L15 X	20435462	20456462	estimated_end	20435462
	located_end	20456462		
CH322-54L16 2L	10426830	10447830	estimated_end	10426830
	located_end	10447830		
CH322-54L17 2R	20685433	20706433	estimated_end	20685433
	located_end	20706433		
CH322-54L18 3R	11759344	11780344	estimated_end	11759344
	located_end	11780344		
CH322-54L20 3L	7119017	7140017	located_end	7119017
	estimated_end	7140017		
CH322-54M04 X	6117909	6138909	located_end	6117909
	estimated_end	6138909		
CH322-54M07 3R	25323081	25344081	estimated_end	25323081
	located_end	25344081		
CH322-54M08 3R	19057048	19078048	estimated_end	19057048
	located_end	19078048		
CH322-54M09 3L	6130125	6151125	located_end	6130125
	estimated_end	6151125		
CH322-54M16 3R	20699069	20720069	located_end	20699069
	estimated_end	20720069		
CH322-54M20 2L	13453880	13474880	estimated_end	13453880
	located_end	13474880		
CH322-54M22 3L	15478385	15499385	estimated_end	15478385
	located_end	15499385		
CH322-54M24 3L	14093254	14114254	located_end	14093254
	estimated_end	14114254		
CH322-54N04 2L	3812507	3833507	located_end	3812507
	estimated_end	3833507		
CH322-54N10 ArmU	7490606	7511606	located_end	7490606
	estimated_end	7511606		
CH322-54N16 3L	17085802	17106802	estimated_end	17085802
	located_end	17106802		

CH322-54N21 3R	16894645	16915645	located_end	16894645
	estimated_end	16915645		
CH322-54N22 2R	17132021	17153021	estimated_end	17132021
	located_end	17153021		
CH322-54O06 3R	3321644	3342644	estimated_end	3321644
	located_end	3342644		
CH322-54O07 3L	8004897	8025897	estimated_end	8004897
	located_end	8025897		
CH322-54O11 3L	9937881	9958881	estimated_end	9937881
	located_end	9958881		
CH322-54O12 3L	5288435	5309435	estimated_end	5288435
	located_end	5309435		
CH322-54O16 ArmU	4914341	4935341	located_end	4914341
	estimated_end	4935341		
CH322-54O20 3L	12457062	12478062	estimated_end	12457062
	located_end	12478062		
CH322-54O21 2L	11657810	11678810	located_end	11657810
	estimated_end	11678810		
CH322-54O24 2R	14755470	14776470	located_end	14755470
	estimated_end	14776470		
CH322-54P19 2L	3190908	3211908	located_end	3190908
	estimated_end	3211908		
CH322-55A03 X	6840520	6861520	located_end	6840520
	estimated_end	6861520		
CH322-55A23 2L	3206760	3227760	estimated_end	3206760
	located_end	3227760		
CH322-55B14 2R	18993816	19014816	estimated_end	18993816
	located_end	19014816		
CH322-55B23 3LHet	2006242	2027242	estimated_end	2006242
	located_end	2027242		
CH322-55B24 2L	20724676	20745676	located_end	20724676
	estimated_end	20745676		
CH322-55C07 2L	3190908	3211908	located_end	3190908
	estimated_end	3211908		
CH322-55D03 3L	8695168	8716168	estimated_end	8695168
	located_end	8716168		
CH322-55D11 3R	7664523	7685523	estimated_end	7664523
	located_end	7685523		
CH322-55D14 3L	17327310	17348310	estimated_end	17327310
	located_end	17348310		
CH322-55D15 2R	6885112	6906112	located_end	6885112
	estimated_end	6906112		
CH322-55D19 3L	22530820	22551820	located_end	22530820
	estimated_end	22551820		
CH322-55D22 2L	5835566	5856566	estimated_end	5835566
	located_end	5856566		
CH322-55E06 ArmU	4681823	4702823	estimated_end	4681823
	located_end	4702823		
CH322-55E07 3R	7517315	7538315	estimated_end	7517315
	located_end	7538315		
CH322-55E09 3R	6791579	6812579	located_end	6791579
	estimated_end	6812579		
CH322-55E14 3R	27486462	27507462	estimated_end	27486462
	located_end	27507462		

CH322-55E15 2R	13157885	13178885	located_end	13157885
	estimated_end	13178885		
CH322-55E18 3R	23782090	23803090	estimated_end	23782090
	located_end	23803090		
CH322-55E20 2R	2006091	2027091	located_end	2006091
	estimated_end	2027091		
CH322-55F08 3R	2943235	2964235	estimated_end	2943235
	located_end	2964235		
CH322-55F15 2L	745146	766146	estimated_end	745146
	located_end	766146		
CH322-55F17 2L	10349194	10370194	located_end	10349194
	estimated_end	10370194		
CH322-55F19 2L	232869	253869	located_end	232869
	estimated_end	253869		
CH322-55F21 3R	2066170	2087170	estimated_end	2066170
	located_end	2087170		
CH322-55F24 3L	13067504	13088504	located_end	13067504
	estimated_end	13088504		
CH322-55G10 2R	763038	784038	estimated_end	763038
	located_end	784038		
CH322-55G11 2L	2251097	2272097	located_end	2251097
	estimated_end	2272097		
CH322-55G12 X	6362765	6383765	located_end	6362765
	estimated_end	6383765		
CH322-55G13 3R	8095403	8116403	estimated_end	8095403
	located_end	8116403		
CH322-55G20 X	12884261	12905261	estimated_end	12884261
	located_end	12905261		
CH322-55G24 X	17747616	17768616	estimated_end	17747616
	located_end	17768616		
CH322-55H04 2L	8115131	8136131	located_end	8115131
	estimated_end	8136131		
CH322-55H06 3R	27187778	27208778	estimated_end	27187778
	located_end	27208778		
CH322-55H07 3L	19641354	19662354	located_end	19641354
	estimated_end	19662354		
CH322-55H08 3R	12253174	12274174	estimated_end	12253174
	located_end	12274174		
CH322-55H09 3R	5401860	5422860	located_end	5401860
	estimated_end	5422860		
CH322-55H10 2R	14304210	14325210	estimated_end	14304210
	located_end	14325210		
CH322-55H12 3L	9274033	9295033	estimated_end	9274033
	located_end	9295033		
CH322-55H20 3R	26679127	26700127	located_end	26679127
	estimated_end	26700127		
CH322-55H21 3R	24184288	24205288	located_end	24184288
	estimated_end	24205288		
CH322-55H23 3R	3172407	3193407	estimated_end	3172407
	located_end	3193407		
CH322-55H24 3R	21788706	21809706	estimated_end	21788706
	located_end	21809706		
CH322-55I06 X	8186941	8207941	located_end	8186941
	estimated_end	8207941		

CH322-55I07 2R	4811725	4832725	located_end	4811725
	estimated_end	4832725		
CH322-55I09 2L	21780161	21801161	located_end	21780161
	estimated_end	21801161		
CH322-55I10 3R	13929832	13950832	estimated_end	13929832
	located_end	13950832		
CH322-55I11 2R	2731735	2752735	located_end	2731735
	estimated_end	2752735		
CH322-55I13 2R	3980483	4001483	estimated_end	3980483
	located_end	4001483		
CH322-55J02 3R	6387080	6408080	located_end	6387080
	estimated_end	6408080		
CH322-55J03 X	4160525	4181525	located_end	4160525
	estimated_end	4181525		
CH322-55J05 3R	4947606	4968606	estimated_end	4947606
	located_end	4968606		
CH322-55J07 2L	16261763	16282763	estimated_end	16261763
	located_end	16282763		
CH322-55J09 3L	1976201	1997201	located_end	1976201
	estimated_end	1997201		
CH322-55J10 3L	3507600	3528600	located_end	3507600
	estimated_end	3528600		
CH322-55J13 3R	24212207	24233207	estimated_end	24212207
	located_end	24233207		
CH322-55J17 X	19727456	19748456	estimated_end	19727456
	located_end	19748456		
CH322-55J19 2R	11161704	11182704	located_end	11161704
	estimated_end	11182704		
CH322-55J21 3R	12505712	12526712	estimated_end	12505712
	located_end	12526712		
CH322-55K01 3R	7664523	7685523	estimated_end	7664523
	located_end	7685523		
CH322-55K07 3L	614142	635142	estimated_end	614142
	located_end	635142		
CH322-55K08 X	21783243	21804243	estimated_end	21783243
	located_end	21804243		
CH322-55K11 X	3782180	3803180	estimated_end	3782180
	located_end	3803180		
CH322-55K13 3L	22530820	22551820	located_end	22530820
	estimated_end	22551820		
CH322-55K15 3L	15300347	15321347	estimated_end	15300347
	located_end	15321347		
CH322-55K16 2RHet	1889536	1910536	estimated_end	1889536
	located_end	1910536		
CH322-55K18 2L	1465677	1486677	estimated_end	1465677
	located_end	1486677		
CH322-55K20 X	18188430	18209430	estimated_end	18188430
	located_end	18209430		
CH322-55L03 2R	11025212	11046212	estimated_end	11025212
	located_end	11046212		
CH322-55L07 3R	23368377	23389377	located_end	23368377
	estimated_end	23389377		
CH322-55L08 3R	21898190	21919190	located_end	21898190
	estimated_end	21919190		

CH322-55L12 3R	22544008	22565008	located_end	22544008
	estimated_end	22565008		
CH322-55L15 3L	19116578	19137578	estimated_end	19116578
	located_end	19137578		
CH322-55L16 2L	16316314	16337314	estimated_end	16316314
	located_end	16337314		
CH322-55L18 3R	26558878	26579878	located_end	26558878
	estimated_end	26579878		
CH322-55L19 X	5742665	5763665	located_end	5742665
	estimated_end	5763665		
CH322-55L23 3L	387180	408180	located_end	387180
	estimated_end	408180		
CH322-55M05 3L	840295	861295	located_end	840295
	estimated_end	861295		
CH322-55M13 2R	11871709	11892709	located_end	11871709
	estimated_end	11892709		
CH322-55M15 2R	1135539	1156539	estimated_end	1135539
	located_end	1156539		
CH322-55M19 2L	1805205	1826205	estimated_end	1805205
	located_end	1826205		
CH322-55N05 2R	18053715	18074715	estimated_end	18053715
	located_end	18074715		
CH322-55N07 2R	9700932	9721932	estimated_end	9700932
	located_end	9721932		
CH322-55N08 3R	8798787	8819787	estimated_end	8798787
	located_end	8819787		
CH322-55N11 3R	27164564	27185564	estimated_end	27164564
	located_end	27185564		
CH322-55N23 2L	20576926	20597926	estimated_end	20576926
	located_end	20597926		
CH322-55O08 X	423238	444238	estimated_end	423238
	located_end	444238		
CH322-55O11 3L	2350567	2371567	estimated_end	2350567
	located_end	2371567		
CH322-55O12 2R	14546468	14567468	estimated_end	14546468
	located_end	14567468		
CH322-55O14 3L	7790870	7811870	estimated_end	7790870
	located_end	7811870		
CH322-55O15 3L	4082304	4103304	located_end	4082304
	estimated_end	4103304		
CH322-55O16 2L	8098058	8119058	located_end	8098058
	estimated_end	8119058		
CH322-55O19 3L	23853216	23874216	estimated_end	23853216
	located_end	23874216		
CH322-55O22 3R	23815703	23836703	located_end	23815703
	estimated_end	23836703		
CH322-55O23 3R	18681089	18702089	estimated_end	18681089
	located_end	18702089		
CH322-55P08 3L	20429257	20450257	estimated_end	20429257
	located_end	20450257		
CH322-55P09 3R	15071716	15092716	estimated_end	15071716
	located_end	15092716		
CH322-55P11 2RHet	777899	798899	estimated_end	777899
	located_end	798899		

CH322-55P16 2R	6320553	6341553	estimated_end	6320553
	located_end	6341553		
CH322-55P20 3L	14395092	14416092	estimated_end	14395092
	located_end	14416092		
CH322-55P24 3L	11446018	11467018	located_end	11446018
	estimated_end	11467018		
CH322-56A02 X	21430397	21451397	located_end	21430397
	estimated_end	21451397		
CH322-56A05 3R	5692540	5713540	located_end	5692540
	estimated_end	5713540		
CH322-56A08 2L	10172934	10193934	estimated_end	10172934
	located_end	10193934		
CH322-56A10 3R	4320392	4341392	located_end	4320392
	estimated_end	4341392		
CH322-56B02 2R	3251766	3272766	estimated_end	3251766
	located_end	3272766		
CH322-56B03 2RHet	640095	661095	located_end	640095
	estimated_end	661095		
CH322-56B09 3R	5402743	5423743	estimated_end	5402743
	located_end	5423743		
CH322-56C02 2R	20929497	20950497	estimated_end	20929497
	located_end	20950497		
CH322-56D01 2L	10443000	10464000	located_end	10443000
	estimated_end	10464000		
CH322-56E09 2R	19465069	19486069	estimated_end	19465069
	located_end	19486069		
CH322-56F13 2L	915690	936690	estimated_end	915690
	located_end	936690		
CH322-56H01 3LHet	1557598	1578598	estimated_end	1557598
	located_end	1578598		
CH322-56L01 X	6199135	6220135	located_end	6199135
	estimated_end	6220135		
CH322-56M02 X	10301057	10322057	located_end	10301057
	estimated_end	10322057		
CH322-56N01 3LHet	835375	856375	located_end	835375
	estimated_end	856375		
CH322-56N21 2R	2586246	2607246	located_end	2586246
	estimated_end	2607246		
CH322-57A03 3L	13511068	13532068	estimated_end	13511068
	located_end	13532068		
CH322-57A04 2R	6057548	6078548	estimated_end	6057548
	located_end	6078548		
CH322-57A06 X	18297379	18318379	estimated_end	18297379
	located_end	18318379		
CH322-57A09 2L	3223024	3244024	estimated_end	3223024
	located_end	3244024		
CH322-57A10 3L	5666390	5687390	estimated_end	5666390
	located_end	5687390		
CH322-57A11 3R	15383049	15404049	estimated_end	15383049
	located_end	15404049		
CH322-57A13 3L	4665842	4686842	estimated_end	4665842
	located_end	4686842		
CH322-57A18 2L	9431034	9452034	estimated_end	9431034
	located_end	9452034		

CH322-57B01 X	7082806	7103806	estimated_end	7082806
	located_end	7103806		
CH322-57B02 3L	18914508	18935508	located_end	18914508
	estimated_end	18935508		
CH322-57B03 2L	5662041	5683041	located_end	5662041
	estimated_end	5683041		
CH322-57B13 3R	20890606	20911606	located_end	20890606
	estimated_end	20911606		
CH322-57C01 2R	8466853	8487853	estimated_end	8466853
	located_end	8487853		
CH322-57C02 3L	5916026	5937026	estimated_end	5916026
	located_end	5937026		
CH322-57C10 3L	6002000	6023000	located_end	6002000
	estimated_end	6023000		
CH322-57C17 2R	15964479	15985479	located_end	15964479
	estimated_end	15985479		
CH322-57C19 X	8944671	8965671	estimated_end	8944671
	located_end	8965671		
CH322-57D15 3L	24255325	24276325	estimated_end	24255325
	located_end	24276325		
CH322-57D18 2R	19099986	19120986	estimated_end	19099986
	located_end	19120986		
CH322-57E01 2L	2687746	2708746	located_end	2687746
	estimated_end	2708746		
CH322-57E03 3L	19000691	19021691	estimated_end	19000691
	located_end	19021691		
CH322-57E04 2L	9028165	9049165	estimated_end	9028165
	located_end	9049165		
CH322-57E13 X	7390831	7411831	located_end	7390831
	estimated_end	7411831		
CH322-57E16 2L	22239946	22260946	located_end	22239946
	estimated_end	22260946		
CH322-57E19 2L	11859176	11880176	located_end	11859176
	estimated_end	11880176		
CH322-57F01 3L	14531381	14552381	located_end	14531381
	estimated_end	14552381		
CH322-57F03 3R	18925041	18946041	located_end	18925041
	estimated_end	18946041		
CH322-57F06 3L	20498283	20519283	estimated_end	20498283
	located_end	20519283		
CH322-57F14 3R	18263314	18284314	located_end	18263314
	estimated_end	18284314		
CH322-57G02 3R	25669549	25690549	estimated_end	25669549
	located_end	25690549		
CH322-57G03 2L	6235818	6256818	located_end	6235818
	estimated_end	6256818		
CH322-57G10 2R	15921378	15942378	estimated_end	15921378
	located_end	15942378		
CH322-57G13 2R	16637390	16658390	estimated_end	16637390
	located_end	16658390		
CH322-57H09 ArmU	2870934	2891934	estimated_end	2870934
	located_end	2891934		
CH322-57H12 3R	2804373	2825373	estimated_end	2804373
	located_end	2825373		

CH322-57I04 3R	25730305	25751305	estimated_end	25730305
	located_end	25751305		
CH322-57I08 X	7869852	7890852	estimated_end	7869852
	located_end	7890852		
CH322-57I19 3L	6781275	6802275	estimated_end	6781275
	located_end	6802275		
CH322-57J01 3R	9728378	9749378	estimated_end	9728378
	located_end	9749378		
CH322-57J07 4	861635	882635	estimated_end	861635
	located_end	882635		
CH322-57J10 3R	8614696	8635696	located_end	8614696
	estimated_end	8635696		
CH322-57J11 2L	9432767	9453767	located_end	9432767
	estimated_end	9453767		
CH322-57J12 2R	11165767	11186767	located_end	11165767
	estimated_end	11186767		
CH322-57J14 3L	18261160	18282160	estimated_end	18261160
	located_end	18282160		
CH322-57J15 3L	7983789	8004789	estimated_end	7983789
	located_end	8004789		
CH322-57J18 2R	11694165	11715165	located_end	11694165
	estimated_end	11715165		
CH322-57J22 X	12791264	12812264	estimated_end	12791264
	located_end	12812264		
CH322-57J23 2R	14184958	14205958	estimated_end	14184958
	located_end	14205958		
CH322-57K02 3L	362105	383105	estimated_end	362105
	located_end	383105		
CH322-57K03 2R	5723662	5744662	estimated_end	5723662
	located_end	5744662		
CH322-57L14 2R	5731970	5752970	estimated_end	5731970
	located_end	5752970		
CH322-57L16 3R	15404272	15425272	located_end	15404272
	estimated_end	15425272		
CH322-57M01 3R	4046501	4067501	estimated_end	4046501
	located_end	4067501		
CH322-57M03 3R	16799311	16820311	located_end	16799311
	estimated_end	16820311		
CH322-57M05 3L	9359490	9380490	estimated_end	9359490
	located_end	9380490		
CH322-57M10 3R	11738897	11759897	estimated_end	11738897
	located_end	11759897		
CH322-57M17 3R	26930670	26951670	estimated_end	26930670
	located_end	26951670		
CH322-57N01 3R	21940538	21961538	estimated_end	21940538
	located_end	21961538		
CH322-57N12 3L	16815552	16836552	located_end	16815552
	estimated_end	16836552		
CH322-57N14 2R	15356707	15377707	located_end	15356707
	estimated_end	15377707		
CH322-57O01 3R	3875459	3896459	estimated_end	3875459
	located_end	3896459		
CH322-57O02 3R	9348370	9369370	located_end	9348370
	estimated_end	9369370		

CH322-57O21 2L	6395526	6416526	estimated_end	6395526
	located_end	6416526		
CH322-57O23 3R	16179799	16200799	located_end	16179799
	estimated_end	16200799		
CH322-57P01 3L	13109166	13130166	located_end	13109166
	estimated_end	13130166		
CH322-57P03 X	1958048	1979048	estimated_end	1958048
	located_end	1979048		
CH322-57P23 3L	18624536	18645536	estimated_end	18624536
	located_end	18645536		
CH322-58A02 3R	8891165	8912165	located_end	8891165
	estimated_end	8912165		
CH322-58A03 2L	1066995	1087995	located_end	1066995
	estimated_end	1087995		
CH322-58A07 X	15054262	15075262	estimated_end	15054262
	located_end	15075262		
CH322-58A08 X	19889188	19910188	located_end	19889188
	estimated_end	19910188		
CH322-58A09 X	1958048	1979048	estimated_end	1958048
	located_end	1979048		
CH322-58A11 2R	7832648	7853648	located_end	7832648
	estimated_end	7853648		
CH322-58A13 3R	3262264	3283264	located_end	3262264
	estimated_end	3283264		
CH322-58A16 2L	1335383	1356383	estimated_end	1335383
	located_end	1356383		
CH322-58A18 2R	13124350	13145350	estimated_end	13124350
	located_end	13145350		
CH322-58A21 2L	16944824	16965824	estimated_end	16944824
	located_end	16965824		
CH322-58B06 X	6956374	6977374	located_end	6956374
	estimated_end	6977374		
CH322-58B09 3LHet	2420985	2441985	located_end	2420985
	estimated_end	2441985		
CH322-58B10 2R	3146991	3167991	estimated_end	3146991
	located_end	3167991		
CH322-58B14 3R	24522075	24543075	estimated_end	24522075
	located_end	24543075		
CH322-58B16 2L	10007748	10028748	located_end	10007748
	estimated_end	10028748		
CH322-58B23 X	20761601	20782601	located_end	20761601
	estimated_end	20782601		
CH322-58C01 2R	18649069	18670069	estimated_end	18649069
	located_end	18670069		
CH322-58C04 3R	8738138	8759138	estimated_end	8738138
	located_end	8759138		
CH322-58C14 2R	15346729	15367729	estimated_end	15346729
	located_end	15367729		
CH322-58C16 2L	18314596	18335596	estimated_end	18314596
	located_end	18335596		
CH322-58C19 3R	16234670	16255670	located_end	16234670
	estimated_end	16255670		
CH322-58C21 2L	12784086	12805086	estimated_end	12784086
	located_end	12805086		

CH322-58D05 X	7093158	7114158	estimated_end	7093158
	located_end	7114158		
CH322-58D11 2L	13111561	13132561	located_end	13111561
	estimated_end	13132561		
CH322-58D18 3L	5125170	5146170	estimated_end	5125170
	located_end	5146170		
CH322-58D19 2L	21264702	21285702	located_end	21264702
	estimated_end	21285702		
CH322-58D23 3R	16013250	16034250	located_end	16013250
	estimated_end	16034250		
CH322-58D24 2L	22980867	23001867	located_end	22980867
	estimated_end	23001867		
CH322-58E03 3R	9801358	9822358	estimated_end	9801358
	located_end	9822358		
CH322-58E07 3L	10926014	10947014	estimated_end	10926014
	located_end	10947014		
CH322-58E24 3RHet	116694	137694	located_end	116694
	estimated_end	137694		
CH322-58F15 2R	5704886	5725886	estimated_end	5704886
	located_end	5725886		
CH322-58F21 2L	3127680	3148680	estimated_end	3127680
	located_end	3148680		
CH322-58F22 2L	6179077	6200077	estimated_end	6179077
	located_end	6200077		
CH322-58G03 2R	4136644	4157644	located_end	4136644
	estimated_end	4157644		
CH322-58G06 3R	8738231	8759231	estimated_end	8738231
	located_end	8759231		
CH322-58G10 3R	5042058	5063058	located_end	5042058
	estimated_end	5063058		
CH322-58G12 2R	5281583	5302583	located_end	5281583
	estimated_end	5302583		
CH322-58G14 2R	15729066	15750066	estimated_end	15729066
	located_end	15750066		
CH322-58G20 2R	3146992	3167992	estimated_end	3146992
	located_end	3167992		
CH322-58G21 3R	18260750	18281750	estimated_end	18260750
	located_end	18281750		
CH322-58G22 2L	20617963	20638963	located_end	20617963
	estimated_end	20638963		
CH322-58G24 3R	20975627	20996627	estimated_end	20975627
	located_end	20996627		
CH322-58H01 2L	3799191	3820191	estimated_end	3799191
	located_end	3820191		
CH322-58H05 X	14411762	14432762	estimated_end	14411762
	located_end	14432762		
CH322-58H06 3R	4316888	4337888	located_end	4316888
	estimated_end	4337888		
CH322-58H11 3R	10101531	10122531	estimated_end	10101531
	located_end	10122531		
CH322-58H12 2L	9096151	9117151	located_end	9096151
	estimated_end	9117151		
CH322-58H22 3L	10233696	10254696	located_end	10233696
	estimated_end	10254696		

CH322-58H23 4	726470	747470	located_end 726470
estimated_end	747470		
CH322-58I06 3L	20302197	20323197	located_end 20302197
estimated_end	20323197		
CH322-58I08 2L	17270545	17291545	estimated_end 17270545
located_end	17291545		
CH322-58I09 3L	18262391	18283391	located_end 18262391
estimated_end	18283391		
CH322-58I10 3L	12280110	12301110	located_end 12280110
estimated_end	12301110		
CH322-58I11 2R	12488113	12509113	estimated_end 12488113
located_end	12509113		
CH322-58I12 3R	2340299	2361299	estimated_end 2340299
located_end	2361299		
CH322-58I13 3R	6068457	6089457	estimated_end 6068457
located_end	6089457		
CH322-58I14 X	17379975	17400975	located_end 17379975
estimated_end	17400975		
CH322-58I22 2R	3146853	3167853	estimated_end 3146853
located_end	3167853		
CH322-58I23 3L	18821841	18842841	estimated_end 18821841
located_end	18842841		
CH322-58I24 2R	13222832	13243832	located_end 13222832
estimated_end	13243832		
CH322-58J10 X	13726184	13747184	estimated_end 13726184
located_end	13747184		
CH322-58J11 3L	1148578	1169578	estimated_end 1148578
located_end	1169578		
CH322-58J14 3R	16414792	16435792	estimated_end 16414792
located_end	16435792		
CH322-58K07 3L	15324211	15345211	estimated_end 15324211
located_end	15345211		
CH322-58K11 2L	15361690	15382690	estimated_end 15361690
located_end	15382690		
CH322-58K12 2RHet	2362613	2383613	located_end 2362613
estimated_end	2383613		
CH322-58K16 3L	3707075	3728075	located_end 3707075
estimated_end	3728075		
CH322-58K19 2L	20317939	20338939	estimated_end 20317939
located_end	20338939		
CH322-58K22 3L	12658814	12679814	located_end 12658814
estimated_end	12679814		
CH322-58L01 3R	17906505	17927505	located_end 17906505
estimated_end	17927505		
CH322-58L08 2R	13718173	13739173	estimated_end 13718173
located_end	13739173		
CH322-58L12 2R	14605056	14626056	located_end 14605056
estimated_end	14626056		
CH322-58M03 4	726472	747472	located_end 726472
estimated_end	747472		
CH322-58M07 2L	19774249	19795249	estimated_end 19774249
located_end	19795249		
CH322-58M10 2L	19346343	19367343	estimated_end 19346343
located_end	19367343		

CH322-58M12 X	17188085	17209085	estimated_end	17188085
	located_end	17209085		
CH322-58M14 2L	20863924	20884924	located_end	20863924
	estimated_end	20884924		
CH322-58M16 2R	10644079	10665079	estimated_end	10644079
	located_end	10665079		
CH322-58M17 X	421813	442813	located_end	421813
	estimated_end	442813		
CH322-58M20 X	4779687	4800687	located_end	4779687
	estimated_end	4800687		
CH322-58M21 3RHet	2211011	2232011	located_end	2211011
	estimated_end	2232011		
CH322-58M24 3R	21876756	21897756	located_end	21876756
	estimated_end	21897756		
CH322-58N02 3L	18101208	18122208	located_end	18101208
	estimated_end	18122208		
CH322-58N11 3R	4611866	4632866	estimated_end	4611866
	located_end	4632866		
CH322-58N13 X	14097592	14118592	located_end	14097592
	estimated_end	14118592		
CH322-58N14 2R	11302229	11323229	estimated_end	11302229
	located_end	11323229		
CH322-58N16 3R	25215984	25236984	estimated_end	25215984
	located_end	25236984		
CH322-58N23 3R	23281860	23302860	located_end	23281860
	estimated_end	23302860		
CH322-58N24 3L	23275725	23296725	located_end	23275725
	estimated_end	23296725		
CH322-58O06 2L	4656187	4677187	estimated_end	4656187
	located_end	4677187		
CH322-58P14 2L	4041445	4062445	estimated_end	4041445
	located_end	4062445		
CH322-59A13 ArmU	2985358	3006358	estimated_end	2985358
	located_end	3006358		
CH322-59A18 3R	24705376	24726376	located_end	24705376
	estimated_end	24726376		
CH322-59A20 X	6775675	6796675	located_end	6775675
	estimated_end	6796675		
CH322-59A22 3R	23886654	23907654	estimated_end	23886654
	located_end	23907654		
CH322-59B10 2L	20173147	20194147	located_end	20173147
	estimated_end	20194147		
CH322-59B11 2L	10023757	10044757	located_end	10023757
	estimated_end	10044757		
CH322-59B18 2L	19704981	19725981	estimated_end	19704981
	located_end	19725981		
CH322-59B20 3R	20334209	20355209	located_end	20334209
	estimated_end	20355209		
CH322-59B21 3R	6241266	6262266	located_end	6241266
	estimated_end	6262266		
CH322-59B24 2R	8990248	9011248	estimated_end	8990248
	located_end	9011248		
CH322-59C07 2L	17224059	17245059	located_end	17224059
	estimated_end	17245059		

CH322-59C08 ArmU	3134182	3155182	located_end	3134182
	estimated_end	3155182		
CH322-59C10 3L	19207007	19228007	estimated_end	19207007
	located_end	19228007		
CH322-59C14 X	96220	117220	located_end	96220
	estimated_end	117220		
CH322-59C18 3L	2231251	2252251	located_end	2231251
	estimated_end	2252251		
CH322-59C24 3R	1765121	1786121	estimated_end	1765121
	located_end	1786121		
CH322-59D01 ArmU	7918872	7939872	located_end	7918872
	estimated_end	7939872		
CH322-59D05 3L	19752773	19773773	estimated_end	19752773
	located_end	19773773		
CH322-59D07 3R	5594184	5615184	estimated_end	5594184
	located_end	5615184		
CH322-59E04 2L	20028155	20049155	estimated_end	20028155
	located_end	20049155		
CH322-59E13 X	6070288	6091288	estimated_end	6070288
	located_end	6091288		
CH322-59E17 2L	3033413	3054413	located_end	3033413
	estimated_end	3054413		
CH322-59E20 3L	14481480	14502480	located_end	14481480
	estimated_end	14502480		
CH322-59F07 3L	10891386	10912386	estimated_end	10891386
	located_end	10912386		
CH322-59F09 3R	9257618	9278618	located_end	9257618
	estimated_end	9278618		
CH322-59F13 3L	1875172	1896172	estimated_end	1875172
	located_end	1896172		
CH322-59F15 3L	21768482	21789482	located_end	21768482
	estimated_end	21789482		
CH322-59F17 2L	22623263	22644263	located_end	22623263
	estimated_end	22644263		
CH322-59F20 X	13488267	13509267	located_end	13488267
	estimated_end	13509267		
CH322-59G04 3L	1669177	1690177	estimated_end	1669177
	located_end	1690177		
CH322-59G05 2R	6732841	6753841	estimated_end	6732841
	located_end	6753841		
CH322-59G07 2L	11035403	11056403	located_end	11035403
	estimated_end	11056403		
CH322-59G08 2L	18913367	18934367	located_end	18913367
	estimated_end	18934367		
CH322-59G12 2R	851879	872879	located_end	851879
	estimated_end	872879		
CH322-59G15 3R	13847670	13868670	estimated_end	13847670
	located_end	13868670		
CH322-59G16 3L	7486088	7507088	estimated_end	7486088
	located_end	7507088		
CH322-59G22 3R	8962490	8983490	estimated_end	8962490
	located_end	8983490		
CH322-59G24 3R	6482711	6503711	located_end	6482711
	estimated_end	6503711		

CH322-59H02 2RHet	862157	883157	located_end	862157
	estimated_end	883157		
CH322-59H05 3L	4710515	4731515	located_end	4710515
	estimated_end	4731515		
CH322-59H07 3R	20061423	20082423	located_end	20061423
	estimated_end	20082423		
CH322-59H15 2L	849316	870316	located_end	849316
	estimated_end	870316		
CH322-59H23 3R	19329084	19350084	located_end	19329084
	estimated_end	19350084		
CH322-59I03 3L	8667021	8688021	located_end	8667021
	estimated_end	8688021		
CH322-59I04 3L	10159936	10180936	located_end	10159936
	estimated_end	10180936		
CH322-59I05 3L	10155964	10176964	located_end	10155964
	estimated_end	10176964		
CH322-59I06 3L	21832246	21853246	located_end	21832246
	estimated_end	21853246		
CH322-59I07 2R	17901618	17922618	estimated_end	17901618
	located_end	17922618		
CH322-59I08 2L	14059379	14080379	located_end	14059379
	estimated_end	14080379		
CH322-59I09 X	16048021	16069021	estimated_end	16048021
	located_end	16069021		
CH322-59I14 3L	14399712	14420712	estimated_end	14399712
	located_end	14420712		
CH322-59I19 2L	7065274	7086274	estimated_end	7065274
	located_end	7086274		
CH322-59J01 3R	100264	121264	estimated_end	100264
	located_end	121264		
CH322-59J02 3L	8904246	8925246	located_end	8904246
	estimated_end	8925246		
CH322-59J03 2L	21931206	21952206	located_end	21931206
	estimated_end	21952206		
CH322-59J04 2R	6478091	6499091	estimated_end	6478091
	located_end	6499091		
CH322-59J07 3L	876490	897490	estimated_end	876490
	located_end	897490		
CH322-59J10 3L	7699110	7720110	located_end	7699110
	estimated_end	7720110		
CH322-59J14 3R	15965492	15986492	located_end	15965492
	estimated_end	15986492		
CH322-59J17 X	8297485	8318485	located_end	8297485
	estimated_end	8318485		
CH322-59K02 3L	17685893	17706893	located_end	17685893
	estimated_end	17706893		
CH322-59K04 3R	25215392	25236392	located_end	25215392
	estimated_end	25236392		
CH322-59K06 X	5606102	5627102	located_end	5606102
	estimated_end	5627102		
CH322-59K11 4	1237952	1258952	estimated_end	1237952
	located_end	1258952		
CH322-59K18 X	819162	840162	located_end	819162
	estimated_end	840162		

CH322-59K19 2RHet	926584	947584	estimated_end	926584
	located_end	947584		
CH322-59K21 3L	2617985	2638985	located_end	2617985
	estimated_end	2638985		
CH322-59K24 ArmU	5523622	5544622	located_end	5523622
	estimated_end	5544622		
CH322-59L02 2L	21803611	21824611	located_end	21803611
	estimated_end	21824611		
CH322-59L13 X	2432151	2453151	estimated_end	2432151
	located_end	2453151		
CH322-59L17 2R	1077847	1098847	estimated_end	1077847
	located_end	1098847		
CH322-59M03 ArmU	2814108	2835108	estimated_end	2814108
	located_end	2835108		
CH322-59M06 2R	13427394	13448394	estimated_end	13427394
	located_end	13448394		
CH322-59M07 3R	100264	121264	estimated_end	100264
	located_end	121264		
CH322-59M16 2L	4128062	4149062	estimated_end	4128062
	located_end	4149062		
CH322-59M18 3R	18570469	18591469	estimated_end	18570469
	located_end	18591469		
CH322-59M19 2L	22786441	22807441	located_end	22786441
	estimated_end	22807441		
CH322-59M20 3R	752441	773441	estimated_end	752441
	located_end	773441		
CH322-59N01 2R	8374364	8395364	located_end	8374364
	estimated_end	8395364		
CH322-59N07 3L	13525973	13546973	estimated_end	13525973
	located_end	13546973		
CH322-59N08 2R	16679281	16700281	estimated_end	16679281
	located_end	16700281		
CH322-59N17 3R	24705365	24726365	located_end	24705365
	estimated_end	24726365		
CH322-59N23 2L	17597144	17618144	estimated_end	17597144
	located_end	17618144		
CH322-59N24 3R	17336442	17357442	located_end	17336442
	estimated_end	17357442		
CH322-59O02 X	16068497	16089497	located_end	16068497
	estimated_end	16089497		
CH322-59O14 2L	17667329	17688329	located_end	17667329
	estimated_end	17688329		
CH322-59O18 3L	4829268	4850268	located_end	4829268
	estimated_end	4850268		
CH322-59O19 2L	1758972	1779972	located_end	1758972
	estimated_end	1779972		
CH322-59O21 3RHet	1167460	1188460	estimated_end	1167460
	located_end	1188460		
CH322-59O23 X	4726144	4747144	estimated_end	4726144
	located_end	4747144		
CH322-59P03 3LHet	2167094	2188094	located_end	2167094
	estimated_end	2188094		
CH322-59P05 3R	20545442	20566442	estimated_end	20545442
	located_end	20566442		

CH322-59P12 2RHet	1906465	1927465	located_end	1906465
	estimated_end	1927465		
CH322-59P13 X	7004435	7025435	located_end	7004435
	estimated_end	7025435		
CH322-59P16 3R	20484066	20505066	estimated_end	20484066
	located_end	20505066		
CH322-59P17 3R	12029015	12050015	located_end	12029015
	estimated_end	12050015		
CH322-59P19 2R	12483340	12504340	estimated_end	12483340
	located_end	12504340		
CH322-59P21 2RHet	2793345	2814345	estimated_end	2793345
	located_end	2814345		
CH322-60A02 3R	11168575	11189575	located_end	11168575
	estimated_end	11189575		
CH322-60A04 3L	3818590	3839590	located_end	3818590
	estimated_end	3839590		
CH322-60A08 X	3165021	3186021	estimated_end	3165021
	located_end	3186021		
CH322-60A10 2R	18012810	18033810	located_end	18012810
	estimated_end	18033810		
CH322-60A11 3R	17966340	17987340	located_end	17966340
	estimated_end	17987340		
CH322-60A14 2L	21803655	21824655	located_end	21803655
	estimated_end	21824655		
CH322-60A17 3L	17342351	17363351	located_end	17342351
	estimated_end	17363351		
CH322-60A20 3L	20573097	20594097	estimated_end	20573097
	located_end	20594097		
CH322-60A21 3L	10891386	10912386	estimated_end	10891386
	located_end	10912386		
CH322-60B01 3L	14666068	14687068	estimated_end	14666068
	located_end	14687068		
CH322-60B02 2R	7941184	7962184	located_end	7941184
	estimated_end	7962184		
CH322-60B06 3R	16011422	16032422	estimated_end	16011422
	located_end	16032422		
CH322-60B22 2L	7421226	7442226	located_end	7421226
	estimated_end	7442226		
CH322-60C01 2R	18825562	18846562	located_end	18825562
	estimated_end	18846562		
CH322-60C05 X	6740000	6761000	located_end	6740000
	estimated_end	6761000		
CH322-60C06 3R	7992376	8013376	located_end	7992376
	estimated_end	8013376		
CH322-60C17 3R	13592939	13613939	estimated_end	13592939
	located_end	13613939		
CH322-60C18 2R	9308406	9329406	located_end	9308406
	estimated_end	9329406		
CH322-60C23 3L	2610992	2631992	estimated_end	2610992
	located_end	2631992		
CH322-60C24 2L	6169430	6190430	located_end	6169430
	estimated_end	6190430		
CH322-60D14 3L	19464786	19485786	estimated_end	19464786
	located_end	19485786		

CH322-60D18 2L	5670433	5691433	located_end	5670433
	estimated_end	5691433		
CH322-60E01 3L	18470593	18491593	estimated_end	18470593
	located_end	18491593		
CH322-60E02 2L	12186243	12207243	estimated_end	12186243
	located_end	12207243		
CH322-60E17 2R	1574739	1595739	estimated_end	1574739
	located_end	1595739		
CH322-60E20 3L	7582600	7603600	estimated_end	7582600
	located_end	7603600		
CH322-60G13 3L	19770053	19791053	located_end	19770053
	estimated_end	19791053		
CH322-60G20 3L	20694728	20715728	located_end	20694728
	estimated_end	20715728		
CH322-60H02 X	12251016	12272016	located_end	12251016
	estimated_end	12272016		
CH322-60H10 ArmU	252190	273190	located_end	252190
	estimated_end	273190		
CH322-60I02 3L	13971269	13992269	located_end	13971269
	estimated_end	13992269		
CH322-60I05 3R	20545450	20566450	estimated_end	20545450
	located_end	20566450		
CH322-60I09 3R	13124102	13145102	estimated_end	13124102
	located_end	13145102		
CH322-60I12 3L	17517876	17538876	located_end	17517876
	estimated_end	17538876		
CH322-60K06 3R	15799433	15820433	estimated_end	15799433
	located_end	15820433		
CH322-60K12 3L	15633348	15654348	estimated_end	15633348
	located_end	15654348		
CH322-60K13 2R	7886288	7907288	located_end	7886288
	estimated_end	7907288		
CH322-60K18 2L	16507487	16528487	estimated_end	16507487
	located_end	16528487		
CH322-60K21 3R	1672181	1693181	located_end	1672181
	estimated_end	1693181		
CH322-60L01 X	9583141	9604141	located_end	9583141
	estimated_end	9604141		
CH322-60L02 3L	1919398	1940398	estimated_end	1919398
	located_end	1940398		
CH322-60L06 3L	5620140	5641140	located_end	5620140
	estimated_end	5641140		
CH322-60L14 3R	12005895	12026895	located_end	12005895
	estimated_end	12026895		
CH322-60L18 3R	25680820	25701820	estimated_end	25680820
	located_end	25701820		
CH322-60M02 3R	25375450	25396450	located_end	25375450
	estimated_end	25396450		
CH322-60M03 X	15856357	15877357	located_end	15856357
	estimated_end	15877357		
CH322-60M07 3R	4398950	4419950	estimated_end	4398950
	located_end	4419950		
CH322-60M08 2R	480268	501268	located_end	480268
	estimated_end	501268		

CH322-60M09 3L	5831321	5852321	estimated_end	5831321
	located_end	5852321		
CH322-60M10 2L	20029284	20050284	located_end	20029284
	estimated_end	20050284		
CH322-60M22 3L	13568962	13589962	estimated_end	13568962
	located_end	13589962		
CH322-60M24 X	15693547	15714547	located_end	15693547
	estimated_end	15714547		
CH322-60N01 2R	9348252	9369252	estimated_end	9348252
	located_end	9369252		
CH322-60N06 2R	6546997	6567997	estimated_end	6546997
	located_end	6567997		
CH322-60O04 2L	6833140	6854140	estimated_end	6833140
	located_end	6854140		
CH322-60O09 2R	13040131	13061131	estimated_end	13040131
	located_end	13061131		
CH322-60O12 3R	3683864	3704864	located_end	3683864
	estimated_end	3704864		
CH322-60O13 2L	1197744	1218744	located_end	1197744
	estimated_end	1218744		
CH322-60O17 3R	1069764	1090764	located_end	1069764
	estimated_end	1090764		
CH322-60P08 2R	9348336	9369336	estimated_end	9348336
	located_end	9369336		
CH322-60P10 X	3518654	3539654	estimated_end	3518654
	located_end	3539654		
CH322-60P20 2L	13648123	13669123	estimated_end	13648123
	located_end	13669123		
CH322-61A02 3L	24180837	24201837	located_end	24180837
	estimated_end	24201837		
CH322-61A14 3L	1111431	1132431	estimated_end	1111431
	located_end	1132431		
CH322-61A15 3L	6256944	6277944	located_end	6256944
	estimated_end	6277944		
CH322-61A16 3R	14608625	14629625	estimated_end	14608625
	located_end	14629625		
CH322-61B09 3L	9795525	9816525	located_end	9795525
	estimated_end	9816525		
CH322-61B11 3R	3134776	3155776	estimated_end	3134776
	located_end	3155776		
CH322-61B12 2L	19366665	19387665	estimated_end	19366665
	located_end	19387665		
CH322-61B13 3L	16453192	16474192	estimated_end	16453192
	located_end	16474192		
CH322-61B15 X	4060280	4081280	estimated_end	4060280
	located_end	4081280		
CH322-61B17 3L	23245267	23266267	located_end	23245267
	estimated_end	23266267		
CH322-61B18 3R	2291944	2312944	estimated_end	2291944
	located_end	2312944		
CH322-61B19 2L	9178474	9199474	located_end	9178474
	estimated_end	9199474		
CH322-61C04 2L	21999537	22020537	located_end	21999537
	estimated_end	22020537		

CH322-61C06 X	1613825	1634825	located_end	1613825
	estimated_end	1634825		
CH322-61C09 3R	22468785	22489785	located_end	22468785
	estimated_end	22489785		
CH322-61C13 3L	4808926	4829926	located_end	4808926
	estimated_end	4829926		
CH322-61C14 3LHet	386352	407352	located_end	386352
	estimated_end	407352		
CH322-61C15 3L	20688765	20709765	located_end	20688765
	estimated_end	20709765		
CH322-61C16 X	5232800	5253800	estimated_end	5232800
	located_end	5253800		
CH322-61C17 2R	17399951	17420951	estimated_end	17399951
	located_end	17420951		
CH322-61C18 3R	889608	910608	estimated_end	889608
	located_end	910608		
CH322-61D10 3R	1621117	1642117	located_end	1621117
	estimated_end	1642117		
CH322-61D13 2L	12017979	12038979	estimated_end	12017979
	located_end	12038979		
CH322-61D15 2R	15977475	15998475	estimated_end	15977475
	located_end	15998475		
CH322-61D16 3L	20512265	20533265	estimated_end	20512265
	located_end	20533265		
CH322-61D17 2L	10816098	10837098	estimated_end	10816098
	located_end	10837098		
CH322-61D19 3L	15303653	15324653	estimated_end	15303653
	located_end	15324653		
CH322-61D24 ArmU	1023995	1044995	estimated_end	1023995
	located_end	1044995		
CH322-61E04 X	4488109	4509109	estimated_end	4488109
	located_end	4509109		
CH322-61E05 3L	6817860	6838860	estimated_end	6817860
	located_end	6838860		
CH322-61E07 3L	7947458	7968458	located_end	7947458
	estimated_end	7968458		
CH322-61E08 3R	10468583	10489583	located_end	10468583
	estimated_end	10489583		
CH322-61E09 3R	26927656	26948656	estimated_end	26927656
	located_end	26948656		
CH322-61E15 3R	6711655	6732655	estimated_end	6711655
	located_end	6732655		
CH322-61E17 2R	8650960	8671960	estimated_end	8650960
	located_end	8671960		
CH322-61E19 2R	7058326	7079326	located_end	7058326
	estimated_end	7079326		
CH322-61E22 2L	13569947	13590947	estimated_end	13569947
	located_end	13590947		
CH322-61F12 3L	15697491	15718491	estimated_end	15697491
	located_end	15718491		
CH322-61F15 3L	21102587	21123587	estimated_end	21102587
	located_end	21123587		
CH322-61F17 3R	476180	497180	located_end	476180
	estimated_end	497180		

CH322-61F18 2L	8489461	8510461	estimated_end	8489461
	located_end	8510461		
CH322-61G03 3R	10859135	10880135	located_end	10859135
	estimated_end	10880135		
CH322-61G04 3R	5035663	5056663	located_end	5035663
	estimated_end	5056663		
CH322-61G05 3R	23945178	23966178	located_end	23945178
	estimated_end	23966178		
CH322-61G06 X	20255227	20276227	estimated_end	20255227
	located_end	20276227		
CH322-61G08 3R	7424150	7445150	estimated_end	7424150
	located_end	7445150		
CH322-61G10 2R	19452399	19473399	estimated_end	19452399
	located_end	19473399		
CH322-61G12 3R	14379298	14400298	estimated_end	14379298
	located_end	14400298		
CH322-61G18 2R	17124180	17145180	estimated_end	17124180
	located_end	17145180		
CH322-61G19 2R	997105	1018105	estimated_end	997105
	located_end	1018105		
CH322-61G21 X	20135433	20156433	estimated_end	20135433
	located_end	20156433		
CH322-61G23 2L	11998115	12019115	estimated_end	11998115
	located_end	12019115		
CH322-61H02 ArmU	4674976	4695976	estimated_end	4674976
	located_end	4695976		
CH322-61H07 3R	26672940	26693940	located_end	26672940
	estimated_end	26693940		
CH322-61H08 3L	2210371	2231371	estimated_end	2210371
	located_end	2231371		
CH322-61H17 2R	12621096	12642096	estimated_end	12621096
	located_end	12642096		
CH322-61H23 X	4037171	4058171	located_end	4037171
	estimated_end	4058171		
CH322-61H24 3L	17330355	17351355	located_end	17330355
	estimated_end	17351355		
CH322-61I01 X	19132949	19153949	estimated_end	19132949
	located_end	19153949		
CH322-61I04 X	671297	692297	located_end	671297
	estimated_end	692297		
CH322-61I05 X	3892845	3913845	estimated_end	3892845
	located_end	3913845		
CH322-61I06 3R	13712117	13733117	estimated_end	13712117
	located_end	13733117		
CH322-61I07 3R	16245410	16266410	located_end	16245410
	estimated_end	16266410		
CH322-61I10 3L	17381111	17402111	located_end	17381111
	estimated_end	17402111		
CH322-61I12 2L	16911788	16932788	estimated_end	16911788
	located_end	16932788		
CH322-61I17 3L	10460144	10481144	located_end	10460144
	estimated_end	10481144		
CH322-61I19 3L	16001419	16022419	located_end	16001419
	estimated_end	16022419		

CH322-61I21 3R	11956929	11977929	estimated_end	11956929
	located_end	11977929		
CH322-61J02 X	9710247	9731247	estimated_end	9710247
	located_end	9731247		
CH322-61J04 3R	17784555	17805555	located_end	17784555
	estimated_end	17805555		
CH322-61J09 3L	13119871	13140871	estimated_end	13119871
	located_end	13140871		
CH322-61J17 X	3081162	3102162	estimated_end	3081162
	located_end	3102162		
CH322-61J20 2R	8936779	8957779	located_end	8936779
	estimated_end	8957779		
CH322-61J21 X	22003896	22024896	located_end	22003896
	estimated_end	22024896		
CH322-61K05 3L	1252762	1273762	estimated_end	1252762
	located_end	1273762		
CH322-61K07 3R	18682572	18703572	located_end	18682572
	estimated_end	18703572		
CH322-61K10 ArmU	4674976	4695976	estimated_end	4674976
	located_end	4695976		
CH322-61K19 X	18480883	18501883	estimated_end	18480883
	located_end	18501883		
CH322-61K24 2R	6547001	6568001	estimated_end	6547001
	located_end	6568001		
CH322-61L03 3LHet	903484	924484	estimated_end	903484
	located_end	924484		
CH322-61L08 3R	3385080	3406080	estimated_end	3385080
	located_end	3406080		
CH322-61L24 2R	15643157	15664157	estimated_end	15643157
	located_end	15664157		
CH322-61M02 3R	16566290	16587290	estimated_end	16566290
	located_end	16587290		
CH322-61M14 3R	9493084	9514084	estimated_end	9493084
	located_end	9514084		
CH322-61M15 3R	17652969	17673969	located_end	17652969
	estimated_end	17673969		
CH322-61M16 X	5946072	5967072	estimated_end	5946072
	located_end	5967072		
CH322-61M17 3L	13769873	13790873	estimated_end	13769873
	located_end	13790873		
CH322-61N18 3L	364435	385435	located_end	364435
	estimated_end	385435		
CH322-61N19 3L	6561974	6582974	estimated_end	6561974
	located_end	6582974		
CH322-61N23 2L	10304560	10325560	located_end	10304560
	estimated_end	10325560		
CH322-61N24 3R	13557938	13578938	located_end	13557938
	estimated_end	13578938		
CH322-61O03 2R	7300986	7321986	estimated_end	7300986
	located_end	7321986		
CH322-61O06 3L	2566646	2587646	estimated_end	2566646
	located_end	2587646		
CH322-61O09 3L	10006259	10027259	estimated_end	10006259
	located_end	10027259		

CH322-61O10 X	3058543	3079543	located_end	3058543
	estimated_end	3079543		
CH322-61O11 2L	50992	71992	estimated_end	50992
			located_end	71992
CH322-61O16 3R	23493354	23514354	located_end	23493354
	estimated_end	23514354		
CH322-61O19 3R	21249832	21270832	estimated_end	21249832
	located_end	21270832		
CH322-61O21 2L	1359778	1380778	located_end	1359778
	estimated_end	1380778		
CH322-61O23 X	10632821	10653821	located_end	10632821
	estimated_end	10653821		
CH322-61P05 2L	17439242	17460242	estimated_end	17439242
	located_end	17460242		
CH322-61P07 2L	13569947	13590947	estimated_end	13569947
	located_end	13590947		
CH322-61P08 3RHet	643700	664700	located_end	643700
	estimated_end	664700		
CH322-61P19 3L	9522186	9543186	estimated_end	9522186
	located_end	9543186		
CH322-61P20 3L	2566908	2587908	estimated_end	2566908
	located_end	2587908		
CH322-61P21 2R	6478396	6499396	estimated_end	6478396
	located_end	6499396		
CH322-61P22 3R	24209823	24230823	located_end	24209823
	estimated_end	24230823		
CH322-61P23 X	8015557	8036557	located_end	8015557
	estimated_end	8036557		
CH322-62A03 2R	18829092	18850092	located_end	18829092
	estimated_end	18850092		
CH322-62A04 ArmU	1023994	1044994	estimated_end	1023994
	located_end	1044994		
CH322-62A06 3RHet	754326	775326	located_end	754326
	estimated_end	775326		
CH322-62A16 3LHet	1384827	1405827	located_end	1384827
	estimated_end	1405827		
CH322-62A19 2L	14859984	14880984	estimated_end	14859984
	located_end	14880984		
CH322-62A22 2L	20686888	20707888	located_end	20686888
	estimated_end	20707888		
CH322-62B03 2L	10804998	10825998	estimated_end	10804998
	located_end	10825998		
CH322-62B10 3R	7363381	7384381	estimated_end	7363381
	located_end	7384381		
CH322-62B17 2R	17579350	17600350	estimated_end	17579350
	located_end	17600350		
CH322-62B19 2R	12852671	12873671	estimated_end	12852671
	located_end	12873671		
CH322-62B20 X	10170464	10191464	estimated_end	10170464
	located_end	10191464		
CH322-62B24 2L	22607562	22628562	estimated_end	22607562
	located_end	22628562		
CH322-62C01 2R	10986550	11007550	located_end	10986550
	estimated_end	11007550		

CH322-62C09 3R	23439952	23460952	estimated_end	23439952
	located_end	23460952		
CH322-62C13 3R	5053630	5074630	estimated_end	5053630
	located_end	5074630		
CH322-62C15 2L	7685030	7706030	located_end	7685030
	estimated_end	7706030		
CH322-62C18 3R	11632566	11653566	estimated_end	11632566
	located_end	11653566		
CH322-62C23 3L	5596447	5617447	estimated_end	5596447
	located_end	5617447		
CH322-62D04 3R	8355613	8376613	located_end	8355613
	estimated_end	8376613		
CH322-62D05 3R	5644043	5665043	located_end	5644043
	estimated_end	5665043		
CH322-62D07 2R	7651167	7672167	located_end	7651167
	estimated_end	7672167		
CH322-62D10 2R	20626870	20647870	estimated_end	20626870
	located_end	20647870		
CH322-62D15 2L	9370400	9391400	located_end	9370400
	estimated_end	9391400		
CH322-62D16 2L	13575711	13596711	located_end	13575711
	estimated_end	13596711		
CH322-62D17 2R	7967451	7988451	estimated_end	7967451
	located_end	7988451		
CH322-62D19 X	5178182	5199182	located_end	5178182
	estimated_end	5199182		
CH322-62D20 3R	14606046	14627046	estimated_end	14606046
	located_end	14627046		
CH322-62D21 3R	14606053	14627053	estimated_end	14606053
	located_end	14627053		
CH322-62D22 3LHet	911524	932524	located_end	911524
	estimated_end	932524		
CH322-62E04 2R	11315809	11336809	estimated_end	11315809
	located_end	11336809		
CH322-62E08 2L	18664066	18685066	located_end	18664066
	estimated_end	18685066		
CH322-62E09 2R	4422908	4443908	estimated_end	4422908
	located_end	4443908		
CH322-62E10 2R	17209178	17230178	estimated_end	17209178
	located_end	17230178		
CH322-62E12 2R	3903537	3924537	estimated_end	3903537
	located_end	3924537		
CH322-62E13 4	705636	726636	estimated_end	705636
	located_end	726636		
CH322-62E17 X	6679261	6700261	estimated_end	6679261
	located_end	6700261		
CH322-62E21 3L	17368356	17389356	estimated_end	17368356
	located_end	17389356		
CH322-62F08 3L	23271155	23292155	estimated_end	23271155
	located_end	23292155		
CH322-62F10 2R	18681601	18702601	estimated_end	18681601
	located_end	18702601		
CH322-62F12 3R	6911591	6932591	estimated_end	6911591
	located_end	6932591		

CH322-62F14 2L	3730209	3751209	located_end	3730209
estimated_end	3751209			
CH322-62F15 3L	17263386	17284386	estimated_end	17263386
located_end	17284386			
CH322-62F17 2L	7096829	7117829	estimated_end	7096829
located_end	7117829			
CH322-62G03 2L	1259273	1280273	located_end	1259273
estimated_end	1280273			
CH322-62G04 3LHet	1636546	1657546	estimated_end	1636546
located_end	1657546			
CH322-62G06 2R	18115172	18136172	located_end	18115172
estimated_end	18136172			
CH322-62G12 2R	7365718	7386718	located_end	7365718
estimated_end	7386718			
CH322-62G14 2L	14860004	14881004	estimated_end	14860004
located_end	14881004			
CH322-62G15 3R	10886400	10907400	located_end	10886400
estimated_end	10907400			
CH322-62G22 3L	24181461	24202461	located_end	24181461
estimated_end	24202461			
CH322-62G23 3L	13119871	13140871	estimated_end	13119871
located_end	13140871			
CH322-62H04 X	16247967	16268967	estimated_end	16247967
located_end	16268967			
CH322-62H05 X	16247829	16268829	estimated_end	16247829
located_end	16268829			
CH322-62H06 2L	13143601	13164601	located_end	13143601
estimated_end	13164601			
CH322-62H07 2L	13143255	13164255	estimated_end	13143255
located_end	13164255			
CH322-62H08 3L	3408084	3429084	estimated_end	3408084
located_end	3429084			
CH322-62H09 2L	6984349	7005349	located_end	6984349
estimated_end	7005349			
CH322-62H15 X	4814480	4835480	located_end	4814480
estimated_end	4835480			
CH322-62H16 X	4697648	4718648	located_end	4697648
estimated_end	4718648			
CH322-62H17 2R	8540162	8561162	estimated_end	8540162
located_end	8561162			
CH322-62H18 X	9068014	9089014	located_end	9068014
estimated_end	9089014			
CH322-62H20 4	541073	562073	located_end	541073
estimated_end	562073			
CH322-62H21 3R	10017468	10038468	located_end	10017468
estimated_end	10038468			
CH322-62H23 3R	4430690	4451690	estimated_end	4430690
located_end	4451690			
CH322-62H24 2L	14816891	14837891	estimated_end	14816891
located_end	14837891			
CH322-62I03 3L	20915998	20936998	located_end	20915998
estimated_end	20936998			
CH322-62I04 3R	963057	984057	located_end	963057
estimated_end	984057			

CH322-62I05 3L	6322638	6343638	estimated_end	6322638
	located_end	6343638		
CH322-62I06 3R	9526576	9547576	estimated_end	9526576
	located_end	9547576		
CH322-62I07 3L	21916917	21937917	located_end	21916917
	estimated_end	21937917		
CH322-62I09 2L	2934148	2955148	estimated_end	2934148
	located_end	2955148		
CH322-62I11 3R	26245795	26266795	located_end	26245795
	estimated_end	26266795		
CH322-62I12 3L	20915993	20936993	located_end	20915993
	estimated_end	20936993		
CH322-62I13 2L	22270742	22291742	estimated_end	22270742
	located_end	22291742		
CH322-62I15 X	18836592	18857592	located_end	18836592
	estimated_end	18857592		
CH322-62I23 2R	19333490	19354490	estimated_end	19333490
	located_end	19354490		
CH322-62J03 2R	19670926	19691926	located_end	19670926
	estimated_end	19691926		
CH322-62J05 2L	19923328	19944328	located_end	19923328
	estimated_end	19944328		
CH322-62J07 2L	17864892	17885892	estimated_end	17864892
	located_end	17885892		
CH322-62J10 X	12586184	12607184	located_end	12586184
	estimated_end	12607184		
CH322-62J14 3L	16444471	16465471	located_end	16444471
	estimated_end	16465471		
CH322-62J16 2R	9619270	9640270	estimated_end	9619270
	located_end	9640270		
CH322-62J21 2R	10713754	10734754	located_end	10713754
	estimated_end	10734754		
CH322-62J23 3L	24182284	24203284	located_end	24182284
	estimated_end	24203284		
CH322-62J24 3R	17114958	17135958	located_end	17114958
	estimated_end	17135958		
CH322-62K02 2L	20209577	20230577	estimated_end	20209577
	located_end	20230577		
CH322-62K04 3R	26970542	26991542	estimated_end	26970542
	located_end	26991542		
CH322-62K07 3R	10590169	10611169	located_end	10590169
	estimated_end	10611169		
CH322-62K10 3R	10591303	10612303	estimated_end	10591303
	located_end	10612303		
CH322-62K11 2L	22429356	22450356	estimated_end	22429356
	located_end	22450356		
CH322-62K12 2R	11622143	11643143	estimated_end	11622143
	located_end	11643143		
CH322-62L02 3R	22130427	22151427	estimated_end	22130427
	located_end	22151427		
CH322-62L03 2R	7650399	7671399	estimated_end	7650399
	located_end	7671399		
CH322-62L05 X	2934837	2955837	located_end	2934837
	estimated_end	2955837		

CH322-62L06 X	18353366	18374366	located_end	18353366
	estimated_end	18374366		
CH322-62L07 2L	17110858	17131858	estimated_end	17110858
	located_end	17131858		
CH322-62L08 3R	26289039	26310039	estimated_end	26289039
	located_end	26310039		
CH322-62L09 2L	15177145	15198145	estimated_end	15177145
	located_end	15198145		
CH322-62L10 3R	4193272	4214272	located_end	4193272
	estimated_end	4214272		
CH322-62L11 X	20253079	20274079	located_end	20253079
	estimated_end	20274079		
CH322-62L12 X	18816701	18837701	estimated_end	18816701
	located_end	18837701		
CH322-62L14 2L	2626575	2647575	estimated_end	2626575
	located_end	2647575		
CH322-62L22 3L	22009819	22030819	located_end	22009819
	estimated_end	22030819		
CH322-62M05 2L	20208957	20229957	located_end	20208957
	estimated_end	20229957		
CH322-62M08 X	16816971	16837971	located_end	16816971
	estimated_end	16837971		
CH322-62M10 2R	4678995	4699995	estimated_end	4678995
	located_end	4699995		
CH322-62M11 2R	11972288	11993288	estimated_end	11972288
	located_end	11993288		
CH322-62M13 2L	16690770	16711770	estimated_end	16690770
	located_end	16711770		
CH322-62M15 3R	26634209	26655209	estimated_end	26634209
	located_end	26655209		
CH322-62M17 2L	9203173	9224173	estimated_end	9203173
	located_end	9224173		
CH322-62M21 3L	22576006	22597006	estimated_end	22576006
	located_end	22597006		
CH322-62M22 3R	14456142	14477142	estimated_end	14456142
	located_end	14477142		
CH322-62M24 3L	67870	88870	estimated_end	67870
	located_end	88870	located_end	88870
CH322-62N02 X	967940	988940	estimated_end	967940
	located_end	988940		
CH322-62N04 2L	16565734	16586734	estimated_end	16565734
	located_end	16586734		
CH322-62N07 2L	5143655	5164655	located_end	5143655
	estimated_end	5164655		
CH322-62N15 3R	8836065	8857065	located_end	8836065
	estimated_end	8857065		
CH322-62N19 2L	6252097	6273097	estimated_end	6252097
	located_end	6273097		
CH322-62N22 3R	17028667	17049667	located_end	17028667
	estimated_end	17049667		
CH322-62N23 X	8849987	8870987	estimated_end	8849987
	located_end	8870987		
CH322-62O03 3L	19810750	19831750	estimated_end	19810750
	located_end	19831750		

CH322-62O07 3L	1574964	1595964	located_end	1574964
	estimated_end	1595964		
CH322-62O10 2L	15621435	15642435	estimated_end	15621435
	located_end	15642435		
CH322-62O14 2R	3722245	3743245	located_end	3722245
	estimated_end	3743245		
CH322-62O16 2L	22616894	22637894	located_end	22616894
	estimated_end	22637894		
CH322-62P15 2L	17326768	17347768	located_end	17326768
	estimated_end	17347768		
CH322-62P19 3L	24046005	24067005	located_end	24046005
	estimated_end	24067005		
CH322-62P20 3R	807231	828231	estimated_end	807231
	located_end	828231		
CH322-62P22 2R	17875540	17896540	estimated_end	17875540
	located_end	17896540		
CH322-63A01 ArmU	2683738	2704738	estimated_end	2683738
	located_end	2704738		
CH322-63A02 3R	22378746	22399746	estimated_end	22378746
	located_end	22399746		
CH322-63A06 2L	5811348	5832348	located_end	5811348
	estimated_end	5832348		
CH322-63A08 2L	14808084	14829084	estimated_end	14808084
	located_end	14829084		
CH322-63A10 2R	12361980	12382980	located_end	12361980
	estimated_end	12382980		
CH322-63A11 4	933489	954489	estimated_end	933489
	located_end	954489		
CH322-63A13 2R	5856074	5877074	located_end	5856074
	estimated_end	5877074		
CH322-63A14 4	69657	90657	located_end	69657
	estimated_end	90657		
CH322-63B07 2L	9504752	9525752	located_end	9504752
	estimated_end	9525752		
CH322-63B11 3R	25209669	25230669	estimated_end	25209669
	located_end	25230669		
CH322-63B12 X	7042798	7063798	estimated_end	7042798
	located_end	7063798		
CH322-63B13 3R	8033075	8054075	estimated_end	8033075
	located_end	8054075		
CH322-63B15 3R	13575142	13596142	estimated_end	13575142
	located_end	13596142		
CH322-63B17 3R	64801	85801	located_end	64801
	estimated_end	85801		
CH322-63B18 2L	18652134	18673134	located_end	18652134
	estimated_end	18673134		
CH322-63B19 3L	21133334	21154334	estimated_end	21133334
	located_end	21154334		
CH322-63B21 2R	8710474	8731474	estimated_end	8710474
	located_end	8731474		
CH322-63B22 2L	18977509	18998509	located_end	18977509
	estimated_end	18998509		
CH322-63B24 2L	104525	125525	estimated_end	104525
	located_end	125525		
CH322-63C02 3L	15417203	15438203	estimated_end	15417203
	located_end	15438203		

CH322-63C03 X	22303792	22324792	estimated_end	22303792
	located_end	22324792		
CH322-63C06 3R	20024517	20045517	located_end	20024517
	estimated_end	20045517		
CH322-63C09 2L	10182213	10203213	estimated_end	10182213
	located_end	10203213		
CH322-63C10 2L	20146114	20167114	located_end	20146114
	estimated_end	20167114		
CH322-63C15 3R	13426874	13447874	estimated_end	13426874
	located_end	13447874		
CH322-63C16 3R	9165340	9186340	located_end	9165340
	estimated_end	9186340		
CH322-63C19 2L	16408850	16429850	estimated_end	16408850
	located_end	16429850		
CH322-63C21 3R	3381593	3402593	located_end	3381593
	estimated_end	3402593		
CH322-63C22 3L	24179476	24200476	located_end	24179476
	estimated_end	24200476		
CH322-63D08 3R	13659149	13680149	estimated_end	13659149
	located_end	13680149		
CH322-63D10 3L	4443184	4464184	estimated_end	4443184
	located_end	4464184		
CH322-63D17 2L	3844051	3865051	located_end	3844051
	estimated_end	3865051		
CH322-63D23 X	19265523	19286523	estimated_end	19265523
	located_end	19286523		
CH322-63E04 X	10674386	10695386	located_end	10674386
	estimated_end	10695386		
CH322-63E05 3R	20024517	20045517	located_end	20024517
	estimated_end	20045517		
CH322-63E06 ArmU	9390658	9411658	located_end	9390658
	estimated_end	9411658		
CH322-63E08 3L	3015645	3036645	estimated_end	3015645
	located_end	3036645		
CH322-63E09 3L	15417203	15438203	estimated_end	15417203
	located_end	15438203		
CH322-63E10 3L	6368226	6389226	located_end	6368226
	estimated_end	6389226		
CH322-63E11 3LHet	480491	501491	located_end	480491
	estimated_end	501491		
CH322-63E12 3R	4719603	4740603	located_end	4719603
	estimated_end	4740603		
CH322-63E15 2L	8941491	8962491	located_end	8941491
	estimated_end	8962491		
CH322-63E16 2R	17818487	17839487	estimated_end	17818487
	located_end	17839487		
CH322-63E20 3L	17691606	17712606	estimated_end	17691606
	located_end	17712606		
CH322-63F04 2L	7553926	7574926	located_end	7553926
	estimated_end	7574926		
CH322-63F10 2R	4907687	4928687	located_end	4907687
	estimated_end	4928687		
CH322-63F14 3L	17655731	17676731	estimated_end	17655731
	located_end	17676731		

CH322-63F15 2R	15026828	15047828	located_end	15026828
	estimated_end	15047828		
CH322-63F23 3R	26688217	26709217	estimated_end	26688217
	located_end	26709217		
CH322-63G04 3R	24569342	24590342	located_end	24569342
	estimated_end	24590342		
CH322-63G05 X	10912239	10933239	estimated_end	10912239
	located_end	10933239		
CH322-63G09 3R	22025746	22046746	located_end	22025746
	estimated_end	22046746		
CH322-63G10 3R	19631467	19652467	located_end	19631467
	estimated_end	19652467		
CH322-63G16 3R	12242629	12263629	estimated_end	12242629
	located_end	12263629		
CH322-63G19 3R	7152812	7173812	located_end	7152812
	estimated_end	7173812		
CH322-63G20 X	9378352	9399352	estimated_end	9378352
	located_end	9399352		
CH322-63G24 2L	22183482	22204482	located_end	22183482
	estimated_end	22204482		
CH322-63H01 3RHet	1118126	1139126	estimated_end	1118126
	located_end	1139126		
CH322-63H05 X	8370142	8391142	estimated_end	8370142
	located_end	8391142		
CH322-63H07 2L	11483775	11504775	estimated_end	11483775
	located_end	11504775		
CH322-63H16 3R	14498803	14519803	located_end	14498803
	estimated_end	14519803		
CH322-63I03 2R	642568	663568	located_end	642568
	estimated_end	663568		
CH322-63I04 3R	6482272	6503272	located_end	6482272
	estimated_end	6503272		
CH322-63I05 3R	16710238	16731238	located_end	16710238
	estimated_end	16731238		
CH322-63I07 2L	2052653	2073653	located_end	2052653
	estimated_end	2073653		
CH322-63I08 2RHet	1248653	1269653	estimated_end	1248653
	located_end	1269653		
CH322-63I16 3L	13589394	13610394	located_end	13589394
	estimated_end	13610394		
CH322-63I18 2R	10618604	10639604	estimated_end	10618604
	located_end	10639604		
CH322-63I22 ArmU	7566014	7587014	located_end	7566014
	estimated_end	7587014		
CH322-63I23 ArmU	9775223	9796223	estimated_end	9775223
	located_end	9796223		
CH322-63J03 2R	19096064	19117064	located_end	19096064
	estimated_end	19117064		
CH322-63J08 2R	12559754	12580754	located_end	12559754
	estimated_end	12580754		
CH322-63J17 3L	17083844	17104844	estimated_end	17083844
	located_end	17104844		
CH322-63J20 2L	16192963	16213963	estimated_end	16192963
	located_end	16213963		

CH322-63J21 X	9070602	9091602	located_end	9070602
	estimated_end	9091602		
CH322-63K02 2R	8739958	8760958	estimated_end	8739958
	located_end	8760958		
CH322-63K03 2L	16682748	16703748	located_end	16682748
	estimated_end	16703748		
CH322-63K04 X	3306196	3327196	estimated_end	3306196
	located_end	3327196		
CH322-63K09 3R	22024685	22045685	located_end	22024685
	estimated_end	22045685		
CH322-63K16 2L	12518136	12539136	located_end	12518136
	estimated_end	12539136		
CH322-63K17 2R	13439719	13460719	located_end	13439719
	estimated_end	13460719		
CH322-63K20 3L	133669	154669	located_end	133669
	estimated_end	154669		
CH322-63L05 3L	12490174	12511174	estimated_end	12490174
	located_end	12511174		
CH322-63L14 X	19929885	19950885	estimated_end	19929885
	located_end	19950885		
CH322-63L18 3R	4914085	4935085	estimated_end	4914085
	located_end	4935085		
CH322-63L20 3R	3506001	3527001	located_end	3506001
	estimated_end	3527001		
CH322-63L24 2R	10475977	10496977	located_end	10475977
	estimated_end	10496977		
CH322-63M05 2R	583879	604879	estimated_end	583879
	located_end	604879		
CH322-63M08 X	18377982	18398982	located_end	18377982
	estimated_end	18398982		
CH322-63M09 3L	19060565	19081565	located_end	19060565
	estimated_end	19081565		
CH322-63M11 2R	3887060	3908060	located_end	3887060
	estimated_end	3908060		
CH322-63M12 2L	12237877	12258877	estimated_end	12237877
	located_end	12258877		
CH322-63M22 2L	4046051	4067051	located_end	4046051
	estimated_end	4067051		
CH322-63M23 3L	7655830	7676830	located_end	7655830
	estimated_end	7676830		
CH322-63M24 2L	14928396	14949396	estimated_end	14928396
	located_end	14949396		
CH322-63N06 2L	21032138	21053138	located_end	21032138
	estimated_end	21053138		
CH322-63N08 3R	24878435	24899435	estimated_end	24878435
	located_end	24899435		
CH322-63N12 X	9070602	9091602	located_end	9070602
	estimated_end	9091602		
CH322-63N14 3R	23329842	23350842	located_end	23329842
	estimated_end	23350842		
CH322-63O05 3R	19509016	19530016	located_end	19509016
	estimated_end	19530016		
CH322-63O07 3R	8854096	8875096	located_end	8854096
	estimated_end	8875096		

CH322-63008 2L	21280845	21301845	located_end	21280845
	estimated_end	21301845		
CH322-63009 ArmU	9796220	9817220	located_end	9796220
	estimated_end	9817220		
CH322-63010 2R	4528292	4549292	estimated_end	4528292
	located_end	4549292		
CH322-63011 X	9947974	9968974	estimated_end	9947974
	located_end	9968974		
CH322-63012 3L	4416101	4437101	located_end	4416101
	estimated_end	4437101		
CH322-63014 4	197986	218986	estimated_end	197986
	located_end	218986		
CH322-63015 3R	15972703	15993703	estimated_end	15972703
	located_end	15993703		
CH322-63016 2R	14605290	14626290	estimated_end	14605290
	located_end	14626290		
CH322-63019 3L	15081685	15102685	estimated_end	15081685
	located_end	15102685		
CH322-63P07 3L	14667731	14688731	estimated_end	14667731
	located_end	14688731		
CH322-63P15 X	9330345	9351345	located_end	9330345
	estimated_end	9351345		
CH322-63P20 2L	4796537	4817537	located_end	4796537
	estimated_end	4817537		
CH322-64A01 2R	2536378	2557378	located_end	2536378
	estimated_end	2557378		
CH322-64A06 3L	6407264	6428264	estimated_end	6407264
	located_end	6428264		
CH322-64A08 2L	2783086	2804086	located_end	2783086
	estimated_end	2804086		
CH322-64A10 X	18356057	18377057	estimated_end	18356057
	located_end	18377057		
CH322-64A12 2R	12358490	12379490	estimated_end	12358490
	located_end	12379490		
CH322-64A15 3R	7174907	7195907	estimated_end	7174907
	located_end	7195907		
CH322-64A16 3R	5649351	5670351	located_end	5649351
	estimated_end	5670351		
CH322-64A20 2R	9496553	9517553	located_end	9496553
	estimated_end	9517553		
CH322-64A22 3L	22114021	22135021	estimated_end	22114021
	located_end	22135021		
CH322-64A23 3L	13108720	13129720	estimated_end	13108720
	located_end	13129720		
CH322-64A24 2L	19318644	19339644	estimated_end	19318644
	located_end	19339644		
CH322-64B07 2R	18911985	18932985	located_end	18911985
	estimated_end	18932985		
CH322-64B11 2L	8155940	8176940	located_end	8155940
	estimated_end	8176940		
CH322-64B21 3L	9873500	9894500	located_end	9873500
	estimated_end	9894500		
CH322-64B24 2L	21565459	21586459	estimated_end	21565459
	located_end	21586459		

CH322-64C03 2L	14148643	14169643	estimated_end	14148643
	located_end	14169643		
CH322-64C06 2R	8360992	8381992	located_end	8360992
	estimated_end	8381992		
CH322-64C07 3R	13269816	13290816	estimated_end	13269816
	located_end	13290816		
CH322-64C09 2R	12335055	12356055	estimated_end	12335055
	located_end	12356055		
CH322-64C11 2R	11797238	11818238	estimated_end	11797238
	located_end	11818238		
CH322-64C12 3LHet	269275	290275	located_end	269275
	estimated_end	290275		
CH322-64C13 X	321499	342499	estimated_end	321499
	located_end	342499		
CH322-64C15 2R	2680364	2701364	estimated_end	2680364
	located_end	2701364		
CH322-64C16 2R	4618034	4639034	estimated_end	4618034
	located_end	4639034		
CH322-64C17 3R	16313701	16334701	located_end	16313701
	estimated_end	16334701		
CH322-64C19 4	572402	593402	estimated_end	572402
	located_end	593402		
CH322-64C20 3L	9873497	9894497	located_end	9873497
	estimated_end	9894497		
CH322-64D01 2L	16447456	16468456	estimated_end	16447456
	located_end	16468456		
CH322-64D07 2L	7722259	7743259	estimated_end	7722259
	located_end	7743259		
CH322-64D08 2R	14185505	14206505	located_end	14185505
	estimated_end	14206505		
CH322-64D11 3L	4572253	4593253	estimated_end	4572253
	located_end	4593253		
CH322-64D19 3R	26765510	26786510	located_end	26765510
	estimated_end	26786510		
CH322-64D23 2L	15949233	15970233	located_end	15949233
	estimated_end	15970233		
CH322-64E01 3L	15403970	15424970	estimated_end	15403970
	located_end	15424970		
CH322-64E03 2RHet	1597835	1618835	estimated_end	1597835
	located_end	1618835		
CH322-64E05 2R	19937686	19958686	estimated_end	19937686
	located_end	19958686		
CH322-64E06 2R	12358490	12379490	estimated_end	12358490
	located_end	12379490		
CH322-64E10 2L	11924708	11945708	estimated_end	11924708
	located_end	11945708		
CH322-64E16 2L	13779676	13800676	estimated_end	13779676
	located_end	13800676		
CH322-64E17 3R	18004707	18025707	located_end	18004707
	estimated_end	18025707		
CH322-64E18 2L	16402726	16423726	located_end	16402726
	estimated_end	16423726		
CH322-64E19 2L	13478599	13499599	estimated_end	13478599
	located_end	13499599		

CH322-64E20 3Rhet	2083043	2104043	estimated_end	2083043
	located_end	2104043		
CH322-64E22 3L	7760203	7781203	located_end	7760203
	estimated_end	7781203		
CH322-64E23 3L	5837706	5858706	estimated_end	5837706
	located_end	5858706		
CH322-64F01 2L	1589547	1610547	estimated_end	1589547
	located_end	1610547		
CH322-64F20 3R	3394261	3415261	located_end	3394261
	estimated_end	3415261		
CH322-64G01 2L	13255944	13276944	estimated_end	13255944
	located_end	13276944		
CH322-64G03 3R	20931537	20952537	located_end	20931537
	estimated_end	20952537		
CH322-64G04 2R	869248	890248	estimated_end	869248
	located_end	890248		
CH322-64G10 3R	2988844	3009844	located_end	2988844
	estimated_end	3009844		
CH322-64G12 X	8234748	8255748	located_end	8234748
	estimated_end	8255748		
CH322-64G13 3R	10883449	10904449	estimated_end	10883449
	located_end	10904449		
CH322-64G15 X	2440879	2461879	estimated_end	2440879
	located_end	2461879		
CH322-64G16 3L	1450933	1471933	estimated_end	1450933
	located_end	1471933		
CH322-64G17 3L	8928835	8949835	located_end	8928835
	estimated_end	8949835		
CH322-64G19 3R	18005598	18026598	estimated_end	18005598
	located_end	18026598		
CH322-64G23 2R	11797081	11818081	estimated_end	11797081
	located_end	11818081		
CH322-64H03 2R	12358490	12379490	estimated_end	12358490
	located_end	12379490		
CH322-64H07 2L	2781310	2802310	estimated_end	2781310
	located_end	2802310		
CH322-64H08 X	9840173	9861173	estimated_end	9840173
	located_end	9861173		
CH322-64H15 3R	4897346	4918346	estimated_end	4897346
	located_end	4918346		
CH322-64H16 3L	4572394	4593394	located_end	4572394
	estimated_end	4593394		
CH322-64I01 3L	20775979	20796979	estimated_end	20775979
	located_end	20796979		
CH322-64I03 3R	19535244	19556244	estimated_end	19535244
	located_end	19556244		
CH322-64I13 3L	8221864	8242864	estimated_end	8221864
	located_end	8242864		
CH322-64I14 3L	1450933	1471933	estimated_end	1450933
	located_end	1471933		
CH322-64I15 3R	10884971	10905971	located_end	10884971
	estimated_end	10905971		
CH322-64I17 3R	19981956	20002956	estimated_end	19981956
	located_end	20002956		

CH322-64I18 2L	10748872	10769872	estimated_end	10748872
	located_end	10769872		
CH322-64I21 2R	9840969	9861969	estimated_end	9840969
	located_end	9861969		
CH322-64I23 2L	3596862	3617862	located_end	3596862
	estimated_end	3617862		
CH322-64I24 2L	4851819	4872819	located_end	4851819
	estimated_end	4872819		
CH322-64J01 3L	22114021	22135021	estimated_end	22114021
	located_end	22135021		
CH322-64J03 2L	7141405	7162405	estimated_end	7141405
	located_end	7162405		
CH322-64J04 2L	7558862	7579862	located_end	7558862
	estimated_end	7579862		
CH322-64J05 2R	4187443	4208443	located_end	4187443
	estimated_end	4208443		
CH322-64J06 3R	10235630	10256630	located_end	10235630
	estimated_end	10256630		
CH322-64J07 X	7726068	7747068	estimated_end	7726068
	located_end	7747068		
CH322-64J09 2R	15963457	15984457	located_end	15963457
	estimated_end	15984457		
CH322-64J13 X	20251842	20272842	estimated_end	20251842
	located_end	20272842		
CH322-64J17 3R	26472678	26493678	located_end	26472678
	estimated_end	26493678		
CH322-64J18 3L	17237011	17258011	located_end	17237011
	estimated_end	17258011		
CH322-64J21 2R	11284654	11305654	located_end	11284654
	estimated_end	11305654		
CH322-64J23 3R	14832493	14853493	located_end	14832493
	estimated_end	14853493		
CH322-64K01 3L	9799330	9820330	located_end	9799330
	estimated_end	9820330		
CH322-64K05 2L	20004788	20025788	estimated_end	20004788
	located_end	20025788		
CH322-64K12 X	16275062	16296062	located_end	16275062
	estimated_end	16296062		
CH322-64K16 2L	18222468	18243468	estimated_end	18222468
	located_end	18243468		
CH322-64K20 3R	2598406	2619406	estimated_end	2598406
	located_end	2619406		
CH322-64K23 2L	7825917	7846917	estimated_end	7825917
	located_end	7846917		
CH322-64K24 X	5043343	5064343	estimated_end	5043343
	located_end	5064343		
CH322-64L01 4	245316	266316	estimated_end	245316
	located_end	266316		
CH322-64L03 3L	22431346	22452346	located_end	22431346
	estimated_end	22452346		
CH322-64L05 3R	13000163	13021163	estimated_end	13000163
	located_end	13021163		
CH322-64L12 X	21913543	21934543	estimated_end	21913543
	located_end	21934543		

CH322-64L15 2R	17638709	17659709	located_end 17638709
estimated_end	17659709		
CH322-64M04 2R	7001981	7022981	located_end 7001981
estimated_end	7022981		
CH322-64M08 3L	16039053	16060053	estimated_end 16039053
located_end	16060053		
CH322-64M09 2L	2783085	2804085	located_end 2783085
estimated_end	2804085		
CH322-64M13 3R	18791493	18812493	located_end 18791493
estimated_end	18812493		
CH322-64M14 2R	21106259	21127259	located_end 21106259
estimated_end	21127259		
CH322-64M18 3L	711973	732973	estimated_end 711973
located_end	732973		
CH322-64M19 3L	2724396	2745396	estimated_end 2724396
located_end	2745396		
CH322-64M20 X	2701515	2722515	located_end 2701515
estimated_end	2722515		
CH322-64N02 2R	4908016	4929016	located_end 4908016
estimated_end	4929016		
CH322-64N06 2L	11104335	11125335	estimated_end 11104335
located_end	11125335		
CH322-64N14 3L	14805460	14826460	located_end 14805460
estimated_end	14826460		
CH322-64N24 X	974096	995096	estimated_end 974096
located_end	995096		
CH322-64O02 2L	1253197	1274197	located_end 1253197
estimated_end	1274197		
CH322-64O08 3R	19992950	20013950	estimated_end 19992950
located_end	20013950		
CH322-64O09 2R	11466782	11487782	located_end 11466782
estimated_end	11487782		
CH322-64O11 2L	19490325	19511325	estimated_end 19490325
located_end	19511325		
CH322-64O12 2L	17747985	17768985	located_end 17747985
estimated_end	17768985		
CH322-64O15 3R	18731536	18752536	estimated_end 18731536
located_end	18752536		
CH322-64O19 3L	9873499	9894499	located_end 9873499
estimated_end	9894499		
CH322-64O20 X	20043312	20064312	estimated_end 20043312
located_end	20064312		
CH322-64O23 2L	7140992	7161992	located_end 7140992
estimated_end	7161992		
CH322-64P03 3L	13262305	13283305	located_end 13262305
estimated_end	13283305		
CH322-64P04 X	7840722	7861722	located_end 7840722
estimated_end	7861722		
CH322-64P20 2L	16860266	16881266	located_end 16860266
estimated_end	16881266		
CH322-64P21 2L	14931117	14952117	estimated_end 14931117
located_end	14952117		
CH322-64P23 2R	11962389	11983389	estimated_end 11962389
located_end	11983389		

CH322-65A03 2L	12243425	12264425	located_end	12243425
	estimated_end	12264425		
CH322-65A14 X	16639662	16660662	located_end	16639662
	estimated_end	16660662		
CH322-65A20 3R	23815246	23836246	estimated_end	23815246
	located_end	23836246		
CH322-65B01 2R	8598445	8619445	estimated_end	8598445
	located_end	8619445		
CH322-65B05 2R	5293562	5314562	located_end	5293562
	estimated_end	5314562		
CH322-65B12 3R	21617371	21638371	located_end	21617371
	estimated_end	21638371		
CH322-65B13 2L	13973604	13994604	located_end	13973604
	estimated_end	13994604		
CH322-65B15 X	15122709	15143709	located_end	15122709
	estimated_end	15143709		
CH322-65B20 3R	20802672	20823672	estimated_end	20802672
	located_end	20823672		
CH322-65B21 3L	4551384	4572384	estimated_end	4551384
	located_end	4572384		
CH322-65B24 2L	63667	84667	located_end	63667
	estimated_end	84667		
CH322-65C01 3R	23155447	23176447	located_end	23155447
	estimated_end	23176447		
CH322-65C03 2L	11137120	11158120	estimated_end	11137120
	located_end	11158120		
CH322-65C04 3R	6903589	6924589	estimated_end	6903589
	located_end	6924589		
CH322-65C06 3L	10465771	10486771	located_end	10465771
	estimated_end	10486771		
CH322-65C07 2R	10328703	10349703	estimated_end	10328703
	located_end	10349703		
CH322-65C08 2R	4908011	4929011	located_end	4908011
	estimated_end	4929011		
CH322-65C09 3L	21921834	21942834	located_end	21921834
	estimated_end	21942834		
CH322-65C12 3R	9802569	9823569	located_end	9802569
	estimated_end	9823569		
CH322-65C13 2R	851350	872350	located_end	851350
	estimated_end	872350		
CH322-65C14 3L	14805460	14826460	located_end	14805460
	estimated_end	14826460		
CH322-65C16 3L	6624585	6645585	located_end	6624585
	estimated_end	6645585		
CH322-65C17 2R	10575086	10596086	estimated_end	10575086
	located_end	10596086		
CH322-65C20 3L	8389170	8410170	estimated_end	8389170
	located_end	8410170		
CH322-65C21 2L	12236400	12257400	estimated_end	12236400
	located_end	12257400		
CH322-65C23 X	8509863	8530863	estimated_end	8509863
	located_end	8530863		
CH322-65D04 3R	7774832	7795832	estimated_end	7774832
	located_end	7795832		

CH322-65D06 X	15727195	15748195	located_end	15727195
	estimated_end	15748195		
CH322-65D08 2R	12442088	12463088	located_end	12442088
	estimated_end	12463088		
CH322-65D14 2L	7706892	7727892	estimated_end	7706892
	located_end	7727892		
CH322-65D15 2R	9389649	9410649	estimated_end	9389649
	located_end	9410649		
CH322-65D16 3R	15347380	15368380	located_end	15347380
	estimated_end	15368380		
CH322-65D17 3L	3516046	3537046	estimated_end	3516046
	located_end	3537046		
CH322-65D22 2R	11669369	11690369	estimated_end	11669369
	located_end	11690369		
CH322-65E07 X	20948513	20969513	estimated_end	20948513
	located_end	20969513		
CH322-65E10 3L	15860430	15881430	located_end	15860430
	estimated_end	15881430		
CH322-65E11 3R	7008163	7029163	estimated_end	7008163
	located_end	7029163		
CH322-65E12 X	2432151	2453151	estimated_end	2432151
	located_end	2453151		
CH322-65E16 2L	13500348	13521348	estimated_end	13500348
	located_end	13521348		
CH322-65E17 2R	2479161	2500161	located_end	2479161
	estimated_end	2500161		
CH322-65E21 X	8508251	8529251	located_end	8508251
	estimated_end	8529251		
CH322-65E22 2R	16462794	16483794	estimated_end	16462794
	located_end	16483794		
CH322-65E23 ArmU	3074285	3095285	located_end	3074285
	estimated_end	3095285		
CH322-65F06 4	757568	778568	located_end	757568
	estimated_end	778568		
CH322-65F08 2R	1779532	1800532	located_end	1779532
	estimated_end	1800532		
CH322-65F13 3R	20322620	20343620	located_end	20322620
	estimated_end	20343620		
CH322-65F15 3R	1022716	1043716	estimated_end	1022716
	located_end	1043716		
CH322-65F17 3R	3705947	3726947	located_end	3705947
	estimated_end	3726947		
CH322-65F19 3R	15282116	15303116	estimated_end	15282116
	located_end	15303116		
CH322-65F21 X	8519839	8540839	located_end	8519839
	estimated_end	8540839		
CH322-65G05 3L	11437946	11458946	located_end	11437946
	estimated_end	11458946		
CH322-65G06 2R	6437974	6458974	estimated_end	6437974
	located_end	6458974		
CH322-65G07 3R	21332775	21353775	located_end	21332775
	estimated_end	21353775		
CH322-65G09 2R	18632470	18653470	estimated_end	18632470
	located_end	18653470		

CH322-65G11 3R	27184715	27205715	estimated_end	27184715
	located_end	27205715		
CH322-65G13 2L	2644052	2665052	located_end	2644052
	estimated_end	2665052		
CH322-65G15 3R	17724291	17745291	estimated_end	17724291
	located_end	17745291		
CH322-65G18 2R	4079109	4100109	located_end	4079109
	estimated_end	4100109		
CH322-65G19 3R	23014407	23035407	located_end	23014407
	estimated_end	23035407		
CH322-65G20 2R	18544719	18565719	located_end	18544719
	estimated_end	18565719		
CH322-65G21 3R	4963929	4984929	estimated_end	4963929
	located_end	4984929		
CH322-65H02 X	11402242	11423242	located_end	11402242
	estimated_end	11423242		
CH322-65H03 X	2432151	2453151	estimated_end	2432151
	located_end	2453151		
CH322-65H09 3L	11473576	11494576	located_end	11473576
	estimated_end	11494576		
CH322-65H13 2R	6621480	6642480	estimated_end	6621480
	located_end	6642480		
CH322-65H14 3LHet	1496886	1517886	located_end	1496886
	estimated_end	1517886		
CH322-65H19 2L	2267853	2288853	located_end	2267853
	estimated_end	2288853		
CH322-65H20 4	757568	778568	located_end	757568
	estimated_end	778568		
CH322-65H23 3R	9930166	9951166	estimated_end	9930166
	located_end	9951166		
CH322-65I06 3L	20613522	20634522	located_end	20613522
	estimated_end	20634522		
CH322-65I13 2R	12764280	12785280	located_end	12764280
	estimated_end	12785280		
CH322-65I18 4	781494	802494	located_end	781494
	estimated_end	802494		
CH322-65I19 3R	20051880	20072880	located_end	20051880
	estimated_end	20072880		
CH322-65I20 3L	14780825	14801825	located_end	14780825
	estimated_end	14801825		
CH322-65I21 2L	7558871	7579871	located_end	7558871
	estimated_end	7579871		
CH322-65J02 2R	12730942	12751942	estimated_end	12730942
	located_end	12751942		
CH322-65J03 2R	17752392	17773392	estimated_end	17752392
	located_end	17773392		
CH322-65J04 3R	7780784	7801784	estimated_end	7780784
	located_end	7801784		
CH322-65J10 2R	1154793	1175793	located_end	1154793
	estimated_end	1175793		
CH322-65J13 2L	11525676	11546676	located_end	11525676
	estimated_end	11546676		
CH322-65J15 3LHet	1275538	1296538	located_end	1275538
	estimated_end	1296538		

CH322-65J17 3R	12327317	12348317	estimated_end	12327317
	located_end	12348317		
CH322-65J18 3L	11466909	11487909	located_end	11466909
	estimated_end	11487909		
CH322-65J19 X	8372985	8393985	estimated_end	8372985
	located_end	8393985		
CH322-65J20 3L	6053956	6074956	located_end	6053956
	estimated_end	6074956		
CH322-65J21 2R	20233173	20254173	estimated_end	20233173
	located_end	20254173		
CH322-65J23 2L	17951298	17972298	estimated_end	17951298
	located_end	17972298		
CH322-65K04 3R	6236165	6257165	estimated_end	6236165
	located_end	6257165		
CH322-65K05 2R	24967	45967	estimated_end	24967
	located_end	45967	located_end	45967
CH322-65K06 2L	5777390	5798390	estimated_end	5777390
	located_end	5798390		
CH322-65K07 3R	13024524	13045524	located_end	13024524
	estimated_end	13045524		
CH322-65K08 3R	12942689	12963689	estimated_end	12942689
	located_end	12963689		
CH322-65K12 3RHet	1936269	1957269	located_end	1936269
	estimated_end	1957269		
CH322-65K13 4	103003	124003	located_end	103003
	estimated_end	124003		
CH322-65K14 2R	843696	864696	located_end	843696
	estimated_end	864696		
CH322-65K16 2L	1552742	1573742	located_end	1552742
	estimated_end	1573742		
CH322-65K17 2R	7598241	7619241	located_end	7598241
	estimated_end	7619241		
CH322-65K19 2R	316172	337172	located_end	316172
	estimated_end	337172		
CH322-65K20 3L	6486441	6507441	estimated_end	6486441
	located_end	6507441		
CH322-65K23 X	20951134	20972134	located_end	20951134
	estimated_end	20972134		
CH322-65L01 2R	3266295	3287295	located_end	3266295
	estimated_end	3287295		
CH322-65L03 2R	14660254	14681254	estimated_end	14660254
	located_end	14681254		
CH322-65L04 2R	18161052	18182052	located_end	18161052
	estimated_end	18182052		
CH322-65L05 3L	4551384	4572384	estimated_end	4551384
	located_end	4572384		
CH322-65L06 X	19365222	19386222	located_end	19365222
	estimated_end	19386222		
CH322-65L07 3L	10416827	10437827	estimated_end	10416827
	located_end	10437827		
CH322-65L10 3R	11487987	11508987	located_end	11487987
	estimated_end	11508987		
CH322-65L16 2R	5225332	5246332	located_end	5225332
	estimated_end	5246332		

CH322-65L17 3R	145963	166963	estimated_end	145963
	located_end	166963		
CH322-65L20 2R	8167396	8188396	estimated_end	8167396
	located_end	8188396		
CH322-65L23 ArmU	6848016	6869016	located_end	6848016
	estimated_end	6869016		
CH322-65M02 3L	10416827	10437827	estimated_end	10416827
	located_end	10437827		
CH322-65M03 2L	6733598	6754598	estimated_end	6733598
	located_end	6754598		
CH322-65M07 3R	25280862	25301862	estimated_end	25280862
	located_end	25301862		
CH322-65M08 3L	14898046	14919046	located_end	14898046
	estimated_end	14919046		
CH322-65M11 2R	2424067	2445067	located_end	2424067
	estimated_end	2445067		
CH322-65M12 3R	14704502	14725502	estimated_end	14704502
	located_end	14725502		
CH322-65M13 4	406516	427516	located_end	406516
	estimated_end	427516		
CH322-65M17 3L	5670010	5691010	located_end	5670010
	estimated_end	5691010		
CH322-65M21 3R	3012481	3033481	estimated_end	3012481
	located_end	3033481		
CH322-65M22 3L	4551384	4572384	estimated_end	4551384
	located_end	4572384		
CH322-65N01 X	2393869	2414869	located_end	2393869
	estimated_end	2414869		
CH322-65N03 3L	20080717	20101717	located_end	20080717
	estimated_end	20101717		
CH322-65N04 2L	22811621	22832621	estimated_end	22811621
	located_end	22832621		
CH322-65N05 3R	11071226	11092226	estimated_end	11071226
	located_end	11092226		
CH322-65N06 2L	13989680	14010680	estimated_end	13989680
	located_end	14010680		
CH322-65N07 3L	15086447	15107447	located_end	15086447
	estimated_end	15107447		
CH322-65N09 2R	11843755	11864755	located_end	11843755
	estimated_end	11864755		
CH322-65N10 X	402142	423142	located_end	402142
	estimated_end	423142		
CH322-65N13 ArmU	6216791	6237791	estimated_end	6216791
	located_end	6237791		
CH322-65N15 3R	11969549	11990549	located_end	11969549
	estimated_end	11990549		
CH322-65N18 2L	14557138	14578138	estimated_end	14557138
	located_end	14578138		
CH322-65N23 2R	8598445	8619445	estimated_end	8598445
	located_end	8619445		
CH322-65O01 2L	8323337	8344337	located_end	8323337
	estimated_end	8344337		
CH322-65O02 3R	26218267	26239267	estimated_end	26218267
	located_end	26239267		

CH322-65009 3R	23811307	23832307	estimated_end	23811307
	located_end	23832307		
CH322-65010 3L	383102	404102	located_end	383102
	estimated_end	404102		
CH322-65014 2L	7649993	7670993	estimated_end	7649993
	located_end	7670993		
CH322-65022 3L	231727	252727	estimated_end	231727
	located_end	252727		
CH322-65P02 2L	20025791	20046791	located_end	20025791
	estimated_end	20046791		
CH322-65P06 3L	19138298	19159298	estimated_end	19138298
	located_end	19159298		
CH322-65P07 3L	7772693	7793693	located_end	7772693
	estimated_end	7793693		
CH322-65P08 4	673457	694457	located_end	673457
	estimated_end	694457		
CH322-65P10 3L	3841842	3862842	estimated_end	3841842
	located_end	3862842		
CH322-65P15 3RHet	1232989	1253989	located_end	1232989
	estimated_end	1253989		
CH322-65P16 3R	9460346	9481346	estimated_end	9460346
	located_end	9481346		
CH322-65P17 X	8516600	8537600	estimated_end	8516600
	located_end	8537600		
CH322-65P18 2L	7707576	7728576	located_end	7707576
	estimated_end	7728576		
CH322-65P19 3R	1020819	1041819	located_end	1020819
	estimated_end	1041819		
CH322-65P23 3R	14703468	14724468	located_end	14703468
	estimated_end	14724468		
CH322-66A08 3R	7780784	7801784	estimated_end	7780784
	located_end	7801784		
CH322-66A20 2R	18821693	18842693	estimated_end	18821693
	located_end	18842693		
CH322-66B01 2R	6880225	6901225	located_end	6880225
	estimated_end	6901225		
CH322-66B03 2L	12242536	12263536	estimated_end	12242536
	located_end	12263536		
CH322-66C04 3L	21634904	21655904	located_end	21634904
	estimated_end	21655904		
CH322-66C07 2R	16761296	16782296	located_end	16761296
	estimated_end	16782296		
CH322-66C12 ArmU	3543606	3564606	estimated_end	3543606
	located_end	3564606		
CH322-66C16 2L	14694926	14715926	estimated_end	14694926
	located_end	14715926		
CH322-66C18 X	1616791	1637791	located_end	1616791
	estimated_end	1637791		
CH322-66C19 3R	5131204	5152204	estimated_end	5131204
	located_end	5152204		
CH322-66C23 2L	13990866	14011866	located_end	13990866
	estimated_end	14011866		
CH322-66D04 3L	21634904	21655904	located_end	21634904
	estimated_end	21655904		

CH322-66D13 3R	6287617	6308617	estimated_end	6287617
	located_end	6308617		
CH322-66D14 2L	14694926	14715926	estimated_end	14694926
	located_end	14715926		
CH322-66D16 X	1616791	1637791	located_end	1616791
	estimated_end	1637791		
CH322-66D17 2L	3203029	3224029	estimated_end	3203029
	located_end	3224029		
CH322-66E04 ArmU	4189404	4210404	located_end	4189404
	estimated_end	4210404		
CH322-66E07 3L	24479477	24500477	estimated_end	24479477
	located_end	24500477		
CH322-66E15 4	757367	778367	estimated_end	757367
	located_end	778367		
CH322-66E23 3LHet	1496886	1517886	located_end	1496886
	estimated_end	1517886		
CH322-66F04 3L	12128332	12149332	estimated_end	12128332
	located_end	12149332		
CH322-66F08 3R	12770264	12791264	located_end	12770264
	estimated_end	12791264		
CH322-66F09 3L	1103494	1124494	located_end	1103494
	estimated_end	1124494		
CH322-66F15 2L	5898033	5919033	estimated_end	5898033
	located_end	5919033		
CH322-66F17 2R	5792555	5813555	estimated_end	5792555
	located_end	5813555		
CH322-66F19 2L	10564469	10585469	located_end	10564469
	estimated_end	10585469		
CH322-66F20 2R	14545280	14566280	estimated_end	14545280
	located_end	14566280		
CH322-66G11 4	673457	694457	located_end	673457
	estimated_end	694457		
CH322-66H01 2R	10259735	10280735	located_end	10259735
	estimated_end	10280735		
CH322-66H02 3R	25890404	25911404	located_end	25890404
	estimated_end	25911404		
CH322-66H06 2L	11219010	11240010	estimated_end	11219010
	located_end	11240010		
CH322-66H12 2R	2355964	2376964	located_end	2355964
	estimated_end	2376964		
CH322-66H17 4	673457	694457	located_end	673457
	estimated_end	694457		
CH322-66I01 2R	8377691	8398691	located_end	8377691
	estimated_end	8398691		
CH322-66I11 3R	5131204	5152204	estimated_end	5131204
	located_end	5152204		
CH322-66I18 2R	5225328	5246328	located_end	5225328
	estimated_end	5246328		
CH322-66J02 3R	26546209	26567209	estimated_end	26546209
	located_end	26567209		
CH322-66J03 3R	7038106	7059106	estimated_end	7038106
	located_end	7059106		
CH322-66J07 X	11565955	11586955	located_end	11565955
	estimated_end	11586955		

CH322-66J09 3R	17242617	17263617	located_end	17242617
	estimated_end	17263617		
CH322-66J11 X	14927886	14948886	estimated_end	14927886
	located_end	14948886		
CH322-66J19 2R	10396145	10417145	estimated_end	10396145
	located_end	10417145		
CH322-66J21 2L	3203029	3224029	estimated_end	3203029
	located_end	3224029		
CH322-66K01 3LHet	1496886	1517886	located_end	1496886
	estimated_end	1517886		
CH322-66K17 3R	7780759	7801759	estimated_end	7780759
	located_end	7801759		
CH322-66K19 2R	16790390	16811390	located_end	16790390
	estimated_end	16811390		
CH322-66K20 X	11420470	11441470	estimated_end	11420470
	located_end	11441470		
CH322-66L06 3R	23669305	23690305	located_end	23669305
	estimated_end	23690305		
CH322-66L13 ArmU	6366294	6387294	located_end	6366294
	estimated_end	6387294		
CH322-66L16 3R	12770264	12791264	located_end	12770264
	estimated_end	12791264		
CH322-66L18 X	6931124	6952124	estimated_end	6931124
	located_end	6952124		
CH322-66M04 2R	11489487	11510487	estimated_end	11489487
	located_end	11510487		
CH322-66M07 X	2691086	2712086	estimated_end	2691086
	located_end	2712086		
CH322-66M14 3R	26797026	26818026	located_end	26797026
	estimated_end	26818026		
CH322-66M16 2L	8255728	8276728	located_end	8255728
	estimated_end	8276728		
CH322-66N15 3R	23314320	23335320	located_end	23314320
	estimated_end	23335320		
CH322-66O05 3R	14578882	14599882	located_end	14578882
	estimated_end	14599882		
CH322-66O10 3R	23351134	23372134	estimated_end	23351134
	located_end	23372134		
CH322-66O18 4	673457	694457	located_end	673457
	estimated_end	694457		
CH322-66O22 3R	10673464	10694464	estimated_end	10673464
	located_end	10694464		
CH322-66P07 3R	17239692	17260692	estimated_end	17239692
	located_end	17260692		
CH322-66P11 3R	7038106	7059106	estimated_end	7038106
	located_end	7059106		
CH322-67A04 X	14927886	14948886	estimated_end	14927886
	located_end	14948886		
CH322-67A12 2L	3203029	3224029	estimated_end	3203029
	located_end	3224029		
CH322-67A18 3L	4593429	4614429	located_end	4593429
	estimated_end	4614429		
CH322-67A20 2R	11113313	11134313	located_end	11113313
	estimated_end	11134313		

CH322-67A21 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-67A24 3L	24171781	24192781	located_end	24171781
	estimated_end	24192781		
CH322-67B01 2R	6068950	6089950	estimated_end	6068950
	located_end	6089950		
CH322-67B02 4	889927	910927	estimated_end	889927
	located_end	910927		
CH322-67B05 3R	23669305	23690305	located_end	23669305
	estimated_end	23690305		
CH322-67B08 ArmU	7732165	7753165	located_end	7732165
	estimated_end	7753165		
CH322-67B18 ArmU	8043297	8064297	located_end	8043297
	estimated_end	8064297		
CH322-67B21 3R	13413863	13434863	located_end	13413863
	estimated_end	13434863		
CH322-67B23 2L	9460433	9481433	located_end	9460433
	estimated_end	9481433		
CH322-67C03 2L	15614701	15635701	located_end	15614701
	estimated_end	15635701		
CH322-67C04 3RHet	712256	733256	estimated_end	712256
	located_end	733256		
CH322-67C05 3R	23669305	23690305	located_end	23669305
	estimated_end	23690305		
CH322-67C07 3L	10422166	10443166	located_end	10422166
	estimated_end	10443166		
CH322-67C11 2R	13463464	13484464	located_end	13463464
	estimated_end	13484464		
CH322-67C15 3R	7870745	7891745	estimated_end	7870745
	located_end	7891745		
CH322-67C16 2R	6689023	6710023	located_end	6689023
	estimated_end	6710023		
CH322-67C17 3LHet	150069	171069	estimated_end	150069
	located_end	171069		
CH322-67C21 2L	14435260	14456260	estimated_end	14435260
	located_end	14456260		
CH322-67C22 3R	15501444	15522444	located_end	15501444
	estimated_end	15522444		
CH322-67C23 X	6931128	6952128	estimated_end	6931128
	located_end	6952128		
CH322-67D03 ArmU	4342939	4363939	located_end	4342939
	estimated_end	4363939		
CH322-67D08 3L	6756043	6777043	located_end	6756043
	estimated_end	6777043		
CH322-67D13 X	1962541	1983541	estimated_end	1962541
	located_end	1983541		
CH322-67D15 2L	2113412	2134412	estimated_end	2113412
	located_end	2134412		
CH322-67D16 X	10406069	10427069	located_end	10406069
	estimated_end	10427069		
CH322-67D24 2L	15574194	15595194	located_end	15574194
	estimated_end	15595194		
CH322-67E01 3L	3563198	3584198	estimated_end	3563198
	located_end	3584198		

CH322-67E24 2L	10846868	10867868	located_end	10846868
	estimated_end	10867868		
CH322-67F07 2R	706890	727890	located_end	706890
	estimated_end	727890		
CH322-67F08 2L	1822983	1843983	estimated_end	1822983
	located_end	1843983		
CH322-67F14 ArmU	5915042	5936042	located_end	5915042
	estimated_end	5936042		
CH322-67F23 ArmU	2906987	2927987	estimated_end	2906987
	located_end	2927987		
CH322-67G14 4	75920 96920		located_end	75920 estimated_end 96920
CH322-67G17 2R	8412247	8433247	estimated_end	8412247
	located_end	8433247		
CH322-67G19 2R	16989655	17010655	located_end	16989655
	estimated_end	17010655		
CH322-67G24 2L	14214327	14235327	located_end	14214327
	estimated_end	14235327		
CH322-67H02 X	9887117	9908117	located_end	9887117
	estimated_end	9908117		
CH322-67H09 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-67H19 X	7731357	7752357	located_end	7731357
	estimated_end	7752357		
CH322-67H24 2L	10259030	10280030	located_end	10259030
	estimated_end	10280030		
CH322-67I03 2L	3203029	3224029	estimated_end	3203029
	located_end	3224029		
CH322-67I17 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-67J04 X	6483863	6504863	estimated_end	6483863
	located_end	6504863		
CH322-67J13 3R	23669305	23690305	located_end	23669305
	estimated_end	23690305		
CH322-67J24 X	28103 49103		estimated_end	28103 located_end 49103
CH322-67K05 2L	14487284	14508284	estimated_end	14487284
	located_end	14508284		
CH322-67K23 2L	10477683	10498683	located_end	10477683
	estimated_end	10498683		
CH322-67K24 2R	17924126	17945126	located_end	17924126
	estimated_end	17945126		
CH322-67L03 2L	877876	898876	estimated_end	877876
	located_end	898876		
CH322-67L06 X	118337	139337	estimated_end	118337
	located_end	139337		
CH322-67L21 2L	2113412	2134412	estimated_end	2113412
	located_end	2134412		
CH322-67L23 ArmU	7732165	7753165	located_end	7732165
	estimated_end	7753165		
CH322-67M07 3R	24623336	24644336	estimated_end	24623336
	located_end	24644336		
CH322-67M08 2L	10774050	10795050	located_end	10774050
	estimated_end	10795050		
CH322-67M09 2L	11607930	11628930	located_end	11607930
	estimated_end	11628930		

CH322-67M10 2L	738782	759782	located_end	738782
	estimated_end	759782		
CH322-67M17 2R	4670608	4691608	estimated_end	4670608
	located_end	4691608		
CH322-67M20 3R	27452802	27473802	estimated_end	27452802
	located_end	27473802		
CH322-67M24 3L	18080173	18101173	estimated_end	18080173
	located_end	18101173		
CH322-67N13 3L	18747640	18768640	located_end	18747640
	estimated_end	18768640		
CH322-67N14 3L	10570896	10591896	estimated_end	10570896
	located_end	10591896		
CH322-67N19 3R	713357	734357	estimated_end	713357
	located_end	734357		
CH322-67N21 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-67N24 3LHet	1534818	1555818	located_end	1534818
	estimated_end	1555818		
CH322-67O03 X	1575139	1596139	located_end	1575139
	estimated_end	1596139		
CH322-67O04 3L	4783467	4804467	estimated_end	4783467
	located_end	4804467		
CH322-67O07 2R	18579007	18600007	located_end	18579007
	estimated_end	18600007		
CH322-67O18 2R	18111400	18132400	located_end	18111400
	estimated_end	18132400		
CH322-67O23 3R	5627970	5648970	located_end	5627970
	estimated_end	5648970		
CH322-67P08 3L	15385192	15406192	located_end	15385192
	estimated_end	15406192		
CH322-67P11 2R	13463684	13484684	estimated_end	13463684
	located_end	13484684		
CH322-67P15 2R	11115146	11136146	estimated_end	11115146
	located_end	11136146		
CH322-67P16 3R	10989408	11010408	estimated_end	10989408
	located_end	11010408		
CH322-67P17 3R	7828331	7849331	located_end	7828331
	estimated_end	7849331		
CH322-67P18 3R	27499108	27520108	located_end	27499108
	estimated_end	27520108		
CH322-67P20 3L	4786923	4807923	estimated_end	4786923
	located_end	4807923		
CH322-67P21 3L	4593429	4614429	located_end	4593429
	estimated_end	4614429		
CH322-68A06 2L	2487801	2508801	estimated_end	2487801
	located_end	2508801		
CH322-68A07 2R	18852883	18873883	located_end	18852883
	estimated_end	18873883		
CH322-68A21 3R	1006927	1027927	located_end	1006927
	estimated_end	1027927		
CH322-68A22 2R	6096908	6117908	located_end	6096908
	estimated_end	6117908		
CH322-68A23 X	10841628	10862628	located_end	10841628
	estimated_end	10862628		

CH322-68B02 3LHet	2514832	2535832	estimated_end	2514832
	located_end	2535832		
CH322-68B05 2R	11780860	11801860	estimated_end	11780860
	located_end	11801860		
CH322-68B09 X	5344115	5365115	estimated_end	5344115
	located_end	5365115		
CH322-68B19 2R	13495541	13516541	located_end	13495541
	estimated_end	13516541		
CH322-68B21 2R	12559754	12580754	located_end	12559754
	estimated_end	12580754		
CH322-68B23 2R	1440262	1461262	located_end	1440262
	estimated_end	1461262		
CH322-68B24 2R	2382666	2403666	estimated_end	2382666
	located_end	2403666		
CH322-68C02 3L	11458522	11479522	estimated_end	11458522
	located_end	11479522		
CH322-68C09 3R	26946400	26967400	located_end	26946400
	estimated_end	26967400		
CH322-68D01 X	8028241	8049241	estimated_end	8028241
	located_end	8049241		
CH322-68D15 2L	3428933	3449933	estimated_end	3428933
	located_end	3449933		
CH322-68D18 2L	14378203	14399203	located_end	14378203
	estimated_end	14399203		
CH322-68E01 3L	4470942	4491942	estimated_end	4470942
	located_end	4491942		
CH322-68G22 X	13757136	13778136	estimated_end	13757136
	located_end	13778136		
CH322-68H11 2L	14686049	14707049	located_end	14686049
	estimated_end	14707049		
CH322-68I19 2R	8377691	8398691	located_end	8377691
	estimated_end	8398691		
CH322-68K07 2R	15298177	15319177	located_end	15298177
	estimated_end	15319177		
CH322-68L01 X	7876653	7897653	located_end	7876653
	estimated_end	7897653		
CH322-68M01 3L	9412276	9433276	located_end	9412276
	estimated_end	9433276		
CH322-68M15 2L	9131050	9152050	estimated_end	9131050
	located_end	9152050		
CH322-68N01 3R	10185052	10206052	estimated_end	10185052
	located_end	10206052		
CH322-68N22 2R	17923467	17944467	estimated_end	17923467
	located_end	17944467		
CH322-68O23 2L	507323	528323	estimated_end	507323
	located_end	528323		
CH322-69A03 2L	20889947	20910947	estimated_end	20889947
	located_end	20910947		
CH322-69A05 2L	17761074	17782074	estimated_end	17761074
	located_end	17782074		
CH322-69A08 2L	12214629	12235629	estimated_end	12214629
	located_end	12235629		
CH322-69A17 2R	6113235	6134235	estimated_end	6113235
	located_end	6134235		

CH322-69A18 2R	13534110	13555110	estimated_end	13534110
	located_end	13555110		
CH322-69A19 3R	15913149	15934149	estimated_end	15913149
	located_end	15934149		
CH322-69A20 2L	14361162	14382162	located_end	14361162
	estimated_end	14382162		
CH322-69B04 2R	4064760	4085760	estimated_end	4064760
	located_end	4085760		
CH322-69B07 X	16513810	16534810	located_end	16513810
	estimated_end	16534810		
CH322-69B09 2L	14105392	14126392	estimated_end	14105392
	located_end	14126392		
CH322-69B11 2L	5443148	5464148	estimated_end	5443148
	located_end	5464148		
CH322-69B17 2R	16759880	16780880	estimated_end	16759880
	located_end	16780880		
CH322-69B18 3L	20190822	20211822	located_end	20190822
	estimated_end	20211822		
CH322-69B20 3L	9042099	9063099	located_end	9042099
	estimated_end	9063099		
CH322-69B22 X	13342448	13363448	located_end	13342448
	estimated_end	13363448		
CH322-69B23 3R	22879840	22900840	estimated_end	22879840
	located_end	22900840		
CH322-69C04 2L	12141677	12162677	estimated_end	12141677
	located_end	12162677		
CH322-69C07 3L	1646175	1667175	located_end	1646175
	estimated_end	1667175		
CH322-69C08 3L	15054171	15075171	located_end	15054171
	estimated_end	15075171		
CH322-69C10 3R	27422189	27443189	estimated_end	27422189
	located_end	27443189		
CH322-69C11 3R	16224413	16245413	estimated_end	16224413
	located_end	16245413		
CH322-69C14 3L	15896862	15917862	located_end	15896862
	estimated_end	15917862		
CH322-69C16 3R	24758230	24779230	estimated_end	24758230
	located_end	24779230		
CH322-69C17 3L	20079372	20100372	estimated_end	20079372
	located_end	20100372		
CH322-69C18 3L	15295532	15316532	estimated_end	15295532
	located_end	15316532		
CH322-69C19 X	8152096	8173096	estimated_end	8152096
	located_end	8173096		
CH322-69C20 3L	18101951	18122951	estimated_end	18101951
	located_end	18122951		
CH322-69C21 2R	9855404	9876404	estimated_end	9855404
	located_end	9876404		
CH322-69C24 X	18246575	18267575	estimated_end	18246575
	located_end	18267575		
CH322-69D05 3L	11550153	11571153	estimated_end	11550153
	located_end	11571153		
CH322-69D06 3R	9058349	9079349	located_end	9058349
	estimated_end	9079349		

CH322-69D09 3R	1007293	1028293	estimated_end	1007293
	located_end	1028293		
CH322-69D14 X	19652717	19673717	estimated_end	19652717
	located_end	19673717		
CH322-69D15 3L	20766031	20787031	located_end	20766031
	estimated_end	20787031		
CH322-69D16 2L	9139702	9160702	located_end	9139702
	estimated_end	9160702		
CH322-69D18 3R	2597939	2618939	estimated_end	2597939
	located_end	2618939		
CH322-69D19 2L	107171	128171	estimated_end	107171
	located_end	128171		
CH322-69D20 3L	20334152	20355152	estimated_end	20334152
	located_end	20355152		
CH322-69D22 3L	21998904	22019904	estimated_end	21998904
	located_end	22019904		
CH322-69D24 3L	19231102	19252102	located_end	19231102
	estimated_end	19252102		
CH322-69E04 3L	21709355	21730355	estimated_end	21709355
	located_end	21730355		
CH322-69E05 2L	12141677	12162677	estimated_end	12141677
	located_end	12162677		
CH322-69E08 X	14979314	15000314	estimated_end	14979314
	located_end	15000314		
CH322-69E09 3L	17006120	17027120	located_end	17006120
	estimated_end	17027120		
CH322-69E10 3L	15899907	15920907	estimated_end	15899907
	located_end	15920907		
CH322-69E14 2L	3212984	3233984	located_end	3212984
	estimated_end	3233984		
CH322-69E19 3R	19035452	19056452	located_end	19035452
	estimated_end	19056452		
CH322-69E22 3L	4791225	4812225	estimated_end	4791225
	located_end	4812225		
CH322-69F03 3LHet	2199937	2220937	located_end	2199937
	estimated_end	2220937		
CH322-69F04 2L	5340970	5361970	located_end	5340970
	estimated_end	5361970		
CH322-69F06 X	8626482	8647482	estimated_end	8626482
	located_end	8647482		
CH322-69F07 3R	527720	548720	estimated_end	527720
	located_end	548720		
CH322-69F08 2L	15968139	15989139	estimated_end	15968139
	located_end	15989139		
CH322-69F11 2L	279293	300293	located_end	279293
	estimated_end	300293		
CH322-69F12 3L	13779275	13800275	located_end	13779275
	estimated_end	13800275		
CH322-69F13 3L	16818097	16839097	estimated_end	16818097
	located_end	16839097		
CH322-69F15 X	11070545	11091545	located_end	11070545
	estimated_end	11091545		
CH322-69F16 X	10573658	10594658	located_end	10573658
	estimated_end	10594658		

CH322-69F18 3L	2285393	2306393	estimated_end	2285393
	located_end	2306393		
CH322-69F19 3L	11860191	11881191	located_end	11860191
	estimated_end	11881191		
CH322-69F22 X	12119266	12140266	located_end	12119266
	estimated_end	12140266		
CH322-69F24 2R	7080034	7101034	estimated_end	7080034
	located_end	7101034		
CH322-69G03 2L	5564129	5585129	estimated_end	5564129
	located_end	5585129		
CH322-69G04 3L	22021962	22042962	estimated_end	22021962
	located_end	22042962		
CH322-69G05 3R	17448672	17469672	estimated_end	17448672
	located_end	17469672		
CH322-69G09 3L	22642387	22663387	estimated_end	22642387
	located_end	22663387		
CH322-69G14 2R	3495363	3516363	estimated_end	3495363
	located_end	3516363		
CH322-69G16 2R	14938835	14959835	estimated_end	14938835
	located_end	14959835		
CH322-69G18 2L	17692878	17713878	located_end	17692878
	estimated_end	17713878		
CH322-69G21 4	897430	918430	estimated_end	897430
	located_end	918430		
CH322-69G23 2R	16759880	16780880	estimated_end	16759880
	located_end	16780880		
CH322-69G24 2R	10464934	10485934	estimated_end	10464934
	located_end	10485934		
CH322-69H02 3R	12816874	12837874	estimated_end	12816874
	located_end	12837874		
CH322-69H05 2R	20617977	20638977	estimated_end	20617977
	located_end	20638977		
CH322-69H09 2L	14612516	14633516	estimated_end	14612516
	located_end	14633516		
CH322-69H10 2R	4082588	4103588	located_end	4082588
	estimated_end	4103588		
CH322-69H16 3L	8050727	8071727	estimated_end	8050727
	located_end	8071727		
CH322-69H17 3R	24388434	24409434	estimated_end	24388434
	located_end	24409434		
CH322-69H18 2R	14153676	14174676	located_end	14153676
	estimated_end	14174676		
CH322-69H23 2R	17171900	17192900	located_end	17171900
	estimated_end	17192900		
CH322-69H24 3R	25792456	25813456	located_end	25792456
	estimated_end	25813456		
CH322-69I01 2R	2411112	2432112	estimated_end	2411112
	located_end	2432112		
CH322-69I05 3R	2685236	2706236	located_end	2685236
	estimated_end	2706236		
CH322-69I10 2R	15066554	15087554	estimated_end	15066554
	located_end	15087554		
CH322-69I13 3R	22734078	22755078	located_end	22734078
	estimated_end	22755078		

CH322-69I21 2R	6753088	6774088	estimated_end	6753088
	located_end	6774088		
CH322-69I23 2L	19662744	19683744	estimated_end	19662744
	located_end	19683744		
CH322-69J01 2R	19116003	19137003	estimated_end	19116003
	located_end	19137003		
CH322-69J04 3L	6625750	6646750	estimated_end	6625750
	located_end	6646750		
CH322-69J10 2L	4101252	4122252	located_end	4101252
	estimated_end	4122252		
CH322-69J11 3R	22186719	22207719	located_end	22186719
	estimated_end	22207719		
CH322-69J13 3L	14205676	14226676	located_end	14205676
	estimated_end	14226676		
CH322-69J17 2L	13965617	13986617	located_end	13965617
	estimated_end	13986617		
CH322-69J24 2L	9239022	9260022	estimated_end	9239022
	located_end	9260022		
CH322-69K01 3R	3507935	3528935	located_end	3507935
	estimated_end	3528935		
CH322-69K02 2L	4101252	4122252	located_end	4101252
	estimated_end	4122252		
CH322-69K04 2R	923869	944869	estimated_end	923869
	located_end	944869		
CH322-69K05 2L	1107398	1128398	located_end	1107398
	estimated_end	1128398		
CH322-69K07 3LHet	544919	565919	located_end	544919
	estimated_end	565919		
CH322-69K08 2L	1559503	1580503	estimated_end	1559503
	located_end	1580503		
CH322-69K10 3L	6625986	6646986	located_end	6625986
	estimated_end	6646986		
CH322-69K13 2R	10614847	10635847	located_end	10614847
	estimated_end	10635847		
CH322-69K17 2L	2994998	3015998	located_end	2994998
	estimated_end	3015998		
CH322-69K19 3R	7108585	7129585	located_end	7108585
	estimated_end	7129585		
CH322-69K20 3L	3634233	3655233	located_end	3634233
	estimated_end	3655233		
CH322-69K23 2R	17370976	17391976	estimated_end	17370976
	located_end	17391976		
CH322-69K24 2R	14431901	14452901	located_end	14431901
	estimated_end	14452901		
CH322-69L04 3R	2263122	2284122	estimated_end	2263122
	located_end	2284122		
CH322-69L09 3L	15605852	15626852	estimated_end	15605852
	located_end	15626852		
CH322-69L10 X	18352347	18373347	located_end	18352347
	estimated_end	18373347		
CH322-69L11 X	22322612	22343612	located_end	22322612
	estimated_end	22343612		
CH322-69L14 X	20861179	20882179	estimated_end	20861179
	located_end	20882179		

CH322-69L16 3R	11655381	11676381	estimated_end	11655381
	located_end	11676381		
CH322-69L20 X	8451219	8472219	located_end	8451219
	estimated_end	8472219		
CH322-69L21 3L	10420885	10441885	estimated_end	10420885
	located_end	10441885		
CH322-69L24 3R	24887712	24908712	located_end	24887712
	estimated_end	24908712		
CH322-69M02 X	5371021	5392021	located_end	5371021
	estimated_end	5392021		
CH322-69M03 X	9325396	9346396	estimated_end	9325396
	located_end	9346396		
CH322-69M04 3L	14479680	14500680	located_end	14479680
	estimated_end	14500680		
CH322-69M07 2L	18766193	18787193	located_end	18766193
	estimated_end	18787193		
CH322-69M10 2L	9808607	9829607	located_end	9808607
	estimated_end	9829607		
CH322-69M11 4	933443	954443	estimated_end	933443
	located_end	954443		
CH322-69M12 2L	5564121	5585121	estimated_end	5564121
	located_end	5585121		
CH322-69M14 3L	7281742	7302742	estimated_end	7281742
	located_end	7302742		
CH322-69M16 3R	542150	563150	located_end	542150
	estimated_end	563150		
CH322-69M18 X	4217441	4238441	located_end	4217441
	estimated_end	4238441		
CH322-69N02 2R	2439925	2460925	estimated_end	2439925
	located_end	2460925		
CH322-69N03 3L	2847631	2868631	estimated_end	2847631
	located_end	2868631		
CH322-69N04 3R	22036018	22057018	estimated_end	22036018
	located_end	22057018		
CH322-69N06 2L	19348241	19369241	estimated_end	19348241
	located_end	19369241		
CH322-69N09 3L	4794040	4815040	located_end	4794040
	estimated_end	4815040		
CH322-69N10 3L	6317781	6338781	located_end	6317781
	estimated_end	6338781		
CH322-69N14 3R	7757266	7778266	located_end	7757266
	estimated_end	7778266		
CH322-69N18 3L	3514923	3535923	located_end	3514923
	estimated_end	3535923		
CH322-69N21 3R	6979004	7000004	estimated_end	6979004
	located_end	7000004		
CH322-69N24 3L	11644069	11665069	located_end	11644069
	estimated_end	11665069		
CH322-69O07 3R	12517581	12538581	located_end	12517581
	estimated_end	12538581		
CH322-69O08 2R	7295283	7316283	estimated_end	7295283
	located_end	7316283		
CH322-69O11 3L	11344673	11365673	located_end	11344673
	estimated_end	11365673		

CH322-69O12 3L	15898656	15919656	estimated_end	15898656
	located_end	15919656		
CH322-69O18 3L	16791601	16812601	estimated_end	16791601
	located_end	16812601		
CH322-69O19 3R	23207258	23228258	estimated_end	23207258
	located_end	23228258		
CH322-69O21 2L	21035439	21056439	estimated_end	21035439
	located_end	21056439		
CH322-69P05 3R	13310788	13331788	located_end	13310788
	estimated_end	13331788		
CH322-69P06 X	1519728	1540728	located_end	1519728
	estimated_end	1540728		
CH322-69P09 2L	5505596	5526596	estimated_end	5505596
	located_end	5526596		
CH322-69P11 2R	9739086	9760086	located_end	9739086
	estimated_end	9760086		
CH322-69P13 3L	15896862	15917862	located_end	15896862
	estimated_end	15917862		
CH322-69P15 3R	24758230	24779230	estimated_end	24758230
	located_end	24779230		
CH322-69P16 2L	2205763	2226763	located_end	2205763
	estimated_end	2226763		
CH322-69P19 3L	18101951	18122951	estimated_end	18101951
	located_end	18122951		
CH322-69P20 2L	10805002	10826002	estimated_end	10805002
	located_end	10826002		
CH322-69P21 X	20465135	20486135	estimated_end	20465135
	located_end	20486135		
CH322-69P24 2L	12288268	12309268	located_end	12288268
	estimated_end	12309268		
CH322-70B15 2R	6994157	7015157	located_end	6994157
	estimated_end	7015157		
CH322-70B18 3R	14508564	14529564	located_end	14508564
	estimated_end	14529564		
CH322-70B21 3R	18460647	18481647	estimated_end	18460647
	located_end	18481647		
CH322-70B23 2R	3889150	3910150	located_end	3889150
	estimated_end	3910150		
CH322-70C03 X	4023474	4044474	estimated_end	4023474
	located_end	4044474		
CH322-70C06 3R	23539523	23560523	located_end	23539523
	estimated_end	23560523		
CH322-70C07 2L	14874502	14895502	located_end	14874502
	estimated_end	14895502		
CH322-70C08 3R	24547420	24568420	located_end	24547420
	estimated_end	24568420		
CH322-70C10 3R	17115799	17136799	located_end	17115799
	estimated_end	17136799		
CH322-70C11 X	6786068	6807068	located_end	6786068
	estimated_end	6807068		
CH322-70C12 2L	186705	207705	estimated_end	186705
	located_end	207705		
CH322-70C15 2R	2089826	2110826	located_end	2089826
	estimated_end	2110826		

CH322-70C16 X	15089991	15110991	located_end	15089991
	estimated_end	15110991		
CH322-70C18 3R	13313471	13334471	estimated_end	13313471
	located_end	13334471		
CH322-70C19 X	13538786	13559786	located_end	13538786
	estimated_end	13559786		
CH322-70D03 X	6900656	6921656	located_end	6900656
	estimated_end	6921656		
CH322-70D07 3R	9158969	9179969	estimated_end	9158969
	located_end	9179969		
CH322-70D13 2L	20825974	20846974	located_end	20825974
	estimated_end	20846974		
CH322-70D14 3R	13502131	13523131	estimated_end	13502131
	located_end	13523131		
CH322-70D15 2L	2204442	2225442	estimated_end	2204442
	located_end	2225442		
CH322-70D22 3L	2139956	2160956	estimated_end	2139956
	located_end	2160956		
CH322-70E04 X	8627797	8648797	located_end	8627797
	estimated_end	8648797		
CH322-70E06 X	6609864	6630864	estimated_end	6609864
	located_end	6630864		
CH322-70E07 3L	9069140	9090140	estimated_end	9069140
	located_end	9090140		
CH322-70E09 2L	13644180	13665180	estimated_end	13644180
	located_end	13665180		
CH322-70E10 4	1051599	1072599	estimated_end	1051599
	located_end	1072599		
CH322-70E14 3R	26928856	26949856	estimated_end	26928856
	located_end	26949856		
CH322-70E17 3L	22582945	22603945	estimated_end	22582945
	located_end	22603945		
CH322-70E24 ArmU	2407997	2428997	estimated_end	2407997
	located_end	2428997		
CH322-70F01 2L	10285315	10306315	located_end	10285315
	estimated_end	10306315		
CH322-70F05 2R	13192192	13213192	estimated_end	13192192
	located_end	13213192		
CH322-70F08 X	6142912	6163912	estimated_end	6142912
	located_end	6163912		
CH322-70F12 3L	6611162	6632162	located_end	6611162
	estimated_end	6632162		
CH322-70F13 X	9949727	9970727	estimated_end	9949727
	located_end	9970727		
CH322-70F15 3R	4330175	4351175	estimated_end	4330175
	located_end	4351175		
CH322-70F19 2L	7552388	7573388	estimated_end	7552388
	located_end	7573388		
CH322-70F20 X	22019282	22040282	estimated_end	22019282
	located_end	22040282		
CH322-70F21 3L	15699285	15720285	located_end	15699285
	estimated_end	15720285		
CH322-70F23 2L	19595948	19616948	located_end	19595948
	estimated_end	19616948		

CH322-70G02 2L	20172456	20193456	located_end	20172456
	estimated_end	20193456		
CH322-70G04 2L	8533440	8554440	estimated_end	8533440
	located_end	8554440		
CH322-70G07 3L	19809051	19830051	estimated_end	19809051
	located_end	19830051		
CH322-70G08 2R	8122331	8143331	located_end	8122331
	estimated_end	8143331		
CH322-70G10 2R	124715	145715	located_end	124715
	estimated_end	145715		
CH322-70G11 2L	14640790	14661790	estimated_end	14640790
	located_end	14661790		
CH322-70G15 3R	10786120	10807120	estimated_end	10786120
	located_end	10807120		
CH322-70G21 2R	19302183	19323183	estimated_end	19302183
	located_end	19323183		
CH322-70G23 3R	4601289	4622289	estimated_end	4601289
	located_end	4622289		
CH322-70H07 X	13536899	13557899	estimated_end	13536899
	located_end	13557899		
CH322-70H08 2L	78976	99976	estimated_end	78976
	located_end	99976		
CH322-70H10 2R	1537092	1558092	located_end	1537092
	estimated_end	1558092		
CH322-70H13 X	5180465	5201465	estimated_end	5180465
	located_end	5201465		
CH322-70H17 X	21274361	21295361	located_end	21274361
	estimated_end	21295361		
CH322-70H18 X	22136355	22157355	located_end	22136355
	estimated_end	22157355		
CH322-70H21 3R	5068361	5089361	estimated_end	5068361
	located_end	5089361		
CH322-70I04 2L	10526229	10547229	located_end	10526229
	estimated_end	10547229		
CH322-70I05 X	12895618	12916618	estimated_end	12895618
	located_end	12916618		
CH322-70I10 X	6142883	6163883	estimated_end	6142883
	located_end	6163883		
CH322-70I11 4	568557	589557	estimated_end	568557
	located_end	589557		
CH322-70I16 X	17316382	17337382	estimated_end	17316382
	located_end	17337382		
CH322-70J02 3L	16712136	16733136	estimated_end	16712136
	located_end	16733136		
CH322-70J12 3L	10343935	10364935	located_end	10343935
	estimated_end	10364935		
CH322-70J14 3R	2943699	2964699	located_end	2943699
	estimated_end	2964699		
CH322-70J17 X	380546	401546	located_end	380546
	estimated_end	401546		
CH322-70K04 3R	11530804	11551804	located_end	11530804
	estimated_end	11551804		
CH322-70K08 X	10622877	10643877	estimated_end	10622877
	located_end	10643877		

CH322-70K09 2R	17123942	17144942	estimated_end	17123942
	located_end	17144942		
CH322-70K10 2R	14548687	14569687	located_end	14548687
	estimated_end	14569687		
CH322-70K15 3L	10507415	10528415	estimated_end	10507415
	located_end	10528415		
CH322-70K23 2L	14251598	14272598	estimated_end	14251598
	located_end	14272598		
CH322-70L02 2L	19891414	19912414	located_end	19891414
	estimated_end	19912414		
CH322-70L03 X	12462999	12483999	estimated_end	12462999
	located_end	12483999		
CH322-70L04 3R	23921085	23942085	located_end	23921085
	estimated_end	23942085		
CH322-70L05 2R	16299119	16320119	estimated_end	16299119
	located_end	16320119		
CH322-70L08 X	14268638	14289638	estimated_end	14268638
	located_end	14289638		
CH322-70L09 2L	12447641	12468641	located_end	12447641
	estimated_end	12468641		
CH322-70L13 ArmU	1606166	1627166	estimated_end	1606166
	located_end	1627166		
CH322-70L14 2R	10347603	10368603	estimated_end	10347603
	located_end	10368603		
CH322-70L15 2R	664439	685439	located_end	664439
	estimated_end	685439		
CH322-70L22 2L	11657435	11678435	estimated_end	11657435
	located_end	11678435		
CH322-70L23 3L	13668126	13689126	estimated_end	13668126
	located_end	13689126		
CH322-70M04 ArmU	5558231	5579231	located_end	5558231
	estimated_end	5579231		
CH322-70M07 3L	5574886	5595886	located_end	5574886
	estimated_end	5595886		
CH322-70M10 X	13451125	13472125	located_end	13451125
	estimated_end	13472125		
CH322-70M17 3R	9730008	9751008	estimated_end	9730008
	located_end	9751008		
CH322-70M18 3R	10810365	10831365	estimated_end	10810365
	located_end	10831365		
CH322-70M19 2L	20912800	20933800	estimated_end	20912800
	located_end	20933800		
CH322-70M20 2L	9240428	9261428	located_end	9240428
	estimated_end	9261428		
CH322-70N02 3L	13490765	13511765	estimated_end	13490765
	located_end	13511765		
CH322-70N03 2R	5541983	5562983	located_end	5541983
	estimated_end	5562983		
CH322-70N06 2R	2575012	2596012	located_end	2575012
	estimated_end	2596012		
CH322-70N08 3R	27889591	27910591	located_end	27889591
	estimated_end	27910591		
CH322-70N09 2L	4165135	4186135	located_end	4165135
	estimated_end	4186135		

CH322-70N12 2R	17613303	17634303	located_end	17613303
	estimated_end	17634303		
CH322-70N15 X	18082405	18103405	estimated_end	18082405
	located_end	18103405		
CH322-70N17 3R	15307061	15328061	estimated_end	15307061
	located_end	15328061		
CH322-70N18 3L	19420620	19441620	estimated_end	19420620
	located_end	19441620		
CH322-70N21 X	18049381	18070381	estimated_end	18049381
	located_end	18070381		
CH322-70N22 2R	19335786	19356786	located_end	19335786
	estimated_end	19356786		
CH322-70N23 3R	10054236	10075236	located_end	10054236
	estimated_end	10075236		
CH322-70O05 3R	14456142	14477142	estimated_end	14456142
	located_end	14477142		
CH322-70O10 3L	10559698	10580698	estimated_end	10559698
	located_end	10580698		
CH322-70O13 X	14370842	14391842	estimated_end	14370842
	located_end	14391842		
CH322-70O16 3L	1828492	1849492	located_end	1828492
	estimated_end	1849492		
CH322-70O19 X	22322612	22343612	located_end	22322612
	estimated_end	22343612		
CH322-70O20 2L	17878461	17899461	located_end	17878461
	estimated_end	17899461		
CH322-70O23 X	2216514	2237514	estimated_end	2216514
	located_end	2237514		
CH322-70P11 3R	16266494	16287494	located_end	16266494
	estimated_end	16287494		
CH322-70P16 3L	15070423	15091423	estimated_end	15070423
	located_end	15091423		
CH322-70P19 2R	10664255	10685255	estimated_end	10664255
	located_end	10685255		
CH322-70P20 2R	730679	751679	estimated_end	730679
	located_end	751679		
CH322-70P23 3L	11844316	11865316	estimated_end	11844316
	located_end	11865316		
CH322-71A02 2L	17835980	17856980	estimated_end	17835980
	located_end	17856980		
CH322-71A11 2L	7037030	7058030	estimated_end	7037030
	located_end	7058030		
CH322-71A15 X	6240913	6261913	estimated_end	6240913
	located_end	6261913		
CH322-71A17 2R	10498558	10519558	located_end	10498558
	estimated_end	10519558		
CH322-71A18 X	10735422	10756422	estimated_end	10735422
	located_end	10756422		
CH322-71A19 3L	2551851	2572851	located_end	2551851
	estimated_end	2572851		
CH322-71A20 3R	22013427	22034427	located_end	22013427
	estimated_end	22034427		
CH322-71A22 3R	4819303	4840303	estimated_end	4819303
	located_end	4840303		

CH322-71B01 3L	9363792	9384792	estimated_end	9363792
	located_end	9384792		
CH322-71B02 3R	25038076	25059076	located_end	25038076
	estimated_end	25059076		
CH322-71B03 2L	22435340	22456340	located_end	22435340
	estimated_end	22456340		
CH322-71B05 3R	7205808	7226808	estimated_end	7205808
	located_end	7226808		
CH322-71B07 3RHet	1574644	1595644	estimated_end	1574644
	located_end	1595644		
CH322-71B08 2L	1919975	1940975	estimated_end	1919975
	located_end	1940975		
CH322-71B09 2R	13416604	13437604	estimated_end	13416604
	located_end	13437604		
CH322-71B10 3R	26648008	26669008	located_end	26648008
	estimated_end	26669008		
CH322-71B11 2L	17418953	17439953	estimated_end	17418953
	located_end	17439953		
CH322-71B13 3L	12793350	12814350	estimated_end	12793350
	located_end	12814350		
CH322-71B14 3L	14802910	14823910	located_end	14802910
	estimated_end	14823910		
CH322-71B17 2L	10081350	10102350	estimated_end	10081350
	located_end	10102350		
CH322-71B18 3R	2294973	2315973	located_end	2294973
	estimated_end	2315973		
CH322-71B22 3R	3276215	3297215	located_end	3276215
	estimated_end	3297215		
CH322-71B24 3L	11786734	11807734	estimated_end	11786734
	located_end	11807734		
CH322-71C06 2R	21072096	21093096	located_end	21072096
	estimated_end	21093096		
CH322-71C09 X	17442513	17463513	located_end	17442513
	estimated_end	17463513		
CH322-71C10 3R	24532622	24553622	estimated_end	24532622
	located_end	24553622		
CH322-71C11 2L	4322557	4343557	located_end	4322557
	estimated_end	4343557		
CH322-71C12 3R	26079203	26100203	estimated_end	26079203
	located_end	26100203		
CH322-71C13 3L	10318296	10339296	estimated_end	10318296
	located_end	10339296		
CH322-71C14 ArmU	1318486	1339486	estimated_end	1318486
	located_end	1339486		
CH322-71C16 2L	1559182	1580182	located_end	1559182
	estimated_end	1580182		
CH322-71C17 2R	15175510	15196510	estimated_end	15175510
	located_end	15196510		
CH322-71D03 X	8550039	8571039	located_end	8550039
	estimated_end	8571039		
CH322-71D04 3L	10099990	10120990	estimated_end	10099990
	located_end	10120990		
CH322-71D05 2R	14776338	14797338	estimated_end	14776338
	located_end	14797338		

CH322-71D09 3R	6710928	6731928	estimated_end	6710928
	located_end	6731928		
CH322-71D10 3R	5508426	5529426	located_end	5508426
	estimated_end	5529426		
CH322-71D14 2L	20392034	20413034	located_end	20392034
	estimated_end	20413034		
CH322-71D16 2L	14692108	14713108	estimated_end	14692108
	located_end	14713108		
CH322-71D17 3R	3075642	3096642	located_end	3075642
	estimated_end	3096642		
CH322-71D19 2L	3914324	3935324	estimated_end	3914324
	located_end	3935324		
CH322-71D22 ArmU	1328222	1349222	estimated_end	1328222
	located_end	1349222		
CH322-71D24 2L	8628473	8649473	located_end	8628473
	estimated_end	8649473		
CH322-71E04 X	18299252	18320252	located_end	18299252
	estimated_end	18320252		
CH322-71E05 X	8109517	8130517	estimated_end	8109517
	located_end	8130517		
CH322-71E06 3L	16223300	16244300	estimated_end	16223300
	located_end	16244300		
CH322-71E09 2L	15338717	15359717	estimated_end	15338717
	located_end	15359717		
CH322-71E10 3L	184332	205332	estimated_end	184332
	located_end	205332		
CH322-71E12 2L	18787081	18808081	located_end	18787081
	estimated_end	18808081		
CH322-71E13 2R	16038895	16059895	located_end	16038895
	estimated_end	16059895		
CH322-71E14 X	700393	721393	located_end	700393
	estimated_end	721393		
CH322-71E15 3L	23119311	23140311	located_end	23119311
	estimated_end	23140311		
CH322-71E19 2R	10259062	10280062	located_end	10259062
	estimated_end	10280062		
CH322-71E20 3L	18434606	18455606	located_end	18434606
	estimated_end	18455606		
CH322-71E21 2R	6880233	6901233	located_end	6880233
	estimated_end	6901233		
CH322-71E23 X	6886	27886	estimated_end	6886
			located_end	27886
CH322-71F04 X	19689465	19710465	estimated_end	19689465
	located_end	19710465		
CH322-71F06 X	7251902	7272902	estimated_end	7251902
	located_end	7272902		
CH322-71F13 3R	2502281	2523281	estimated_end	2502281
	located_end	2523281		
CH322-71F14 3R	20837769	20858769	located_end	20837769
	estimated_end	20858769		
CH322-71F15 3R	2055638	2076638	located_end	2055638
	estimated_end	2076638		
CH322-71F20 3R	26020929	26041929	estimated_end	26020929
	located_end	26041929		

CH322-71F21 2L	19938613	19959613	located_end	19938613
	estimated_end	19959613		
CH322-71G02 3R	6710928	6731928	estimated_end	6710928
	located_end	6731928		
CH322-71G03 3R	11216225	11237225	located_end	11216225
	estimated_end	11237225		
CH322-71G04 3L	19021711	19042711	located_end	19021711
	estimated_end	19042711		
CH322-71G09 2L	10221838	10242838	located_end	10221838
	estimated_end	10242838		
CH322-71G10 3L	1915339	1936339	estimated_end	1915339
	located_end	1936339		
CH322-71G11 3R	6091065	6112065	located_end	6091065
	estimated_end	6112065		
CH322-71G15 2L	5878922	5899922	located_end	5878922
	estimated_end	5899922		
CH322-71G16 3R	8196622	8217622	estimated_end	8196622
	located_end	8217622		
CH322-71G17 X	7128486	7149486	located_end	7128486
	estimated_end	7149486		
CH322-71G18 X	14370842	14391842	estimated_end	14370842
	located_end	14391842		
CH322-71G23 2R	15659457	15680457	estimated_end	15659457
	located_end	15680457		
CH322-71H01 3L	12145800	12166800	estimated_end	12145800
	located_end	12166800		
CH322-71H07 2R	8370280	8391280	located_end	8370280
	estimated_end	8391280		
CH322-71H08 3L	21447856	21468856	estimated_end	21447856
	located_end	21468856		
CH322-71H09 3R	12517325	12538325	estimated_end	12517325
	located_end	12538325		
CH322-71H10 3LHet	592333	613333	estimated_end	592333
	located_end	613333		
CH322-71H12 X	13092722	13113722	estimated_end	13092722
	located_end	13113722		
CH322-71H13 2L	3550932	3571932	located_end	3550932
	estimated_end	3571932		
CH322-71H14 2R	16166811	16187811	located_end	16166811
	estimated_end	16187811		
CH322-71H15 3R	17870198	17891198	located_end	17870198
	estimated_end	17891198		
CH322-71H17 2L	18874125	18895125	located_end	18874125
	estimated_end	18895125		
CH322-71H18 2R	1054686	1075686	estimated_end	1054686
	located_end	1075686		
CH322-71H23 3R	9481810	9502810	estimated_end	9481810
	located_end	9502810		
CH322-71I04 3L	7449585	7470585	located_end	7449585
	estimated_end	7470585		
CH322-71I06 3R	10484270	10505270	located_end	10484270
	estimated_end	10505270		
CH322-71I08 2R	16741652	16762652	estimated_end	16741652
	located_end	16762652		

CH322-71I09 X	8944653	8965653	located_end 8944653
	estimated_end	8965653	
CH322-71I10 3R	17677443	17698443	located_end 17677443
	estimated_end	17698443	
CH322-71I14 ArmU	3134071	3155071	located_end 3134071
	estimated_end	3155071	
CH322-71I17 3L	17087888	17108888	estimated_end 17087888
	located_end	17108888	
CH322-71I18 3R	15780278	15801278	located_end 15780278
	estimated_end	15801278	
CH322-71I21 2R	1985094	2006094	estimated_end 1985094
	located_end	2006094	
CH322-71I22 3R	26866038	26887038	located_end 26866038
	estimated_end	26887038	
CH322-71I23 2L	16905347	16926347	located_end 16905347
	estimated_end	16926347	
CH322-71J01 3L	23608491	23629491	located_end 23608491
	estimated_end	23629491	
CH322-71J02 2L	1033846	1054846	estimated_end 1033846
	located_end	1054846	
CH322-71J05 X	6642184	6663184	located_end 6642184
	estimated_end	6663184	
CH322-71J08 2R	8689237	8710237	located_end 8689237
	estimated_end	8710237	
CH322-71J10 3L	16596625	16617625	located_end 16596625
	estimated_end	16617625	
CH322-71J15 2L	19810451	19831451	located_end 19810451
	estimated_end	19831451	
CH322-71J19 3R	17070201	17091201	located_end 17070201
	estimated_end	17091201	
CH322-71J22 2L	10445809	10466809	located_end 10445809
	estimated_end	10466809	
CH322-71J23 3R	1468543	1489543	estimated_end 1468543
	located_end	1489543	
CH322-71J24 2R	19465359	19486359	located_end 19465359
	estimated_end	19486359	
CH322-71K04 2L	6354273	6375273	located_end 6354273
	estimated_end	6375273	
CH322-71K05 X	6007596	6028596	located_end 6007596
	estimated_end	6028596	
CH322-71K11 3R	15233839	15254839	estimated_end 15233839
	located_end	15254839	
CH322-71K14 2R	204942	225942	estimated_end 204942
	located_end	225942	
CH322-71K19 X	11620467	11641467	located_end 11620467
	estimated_end	11641467	
CH322-71K21 2R	9690258	9711258	estimated_end 9690258
	located_end	9711258	
CH322-71K23 3L	498577	519577	located_end 498577
	estimated_end	519577	
CH322-71K24 3R	6906407	6927407	located_end 6906407
	estimated_end	6927407	
CH322-71L05 3L	4828302	4849302	located_end 4828302
	estimated_end	4849302	

CH322-71L06 3R	14050591	14071591	estimated_end	14050591
	located_end	14071591		
CH322-71L10 X	4572047	4593047	located_end	4572047
	estimated_end	4593047		
CH322-71L12 X	18454051	18475051	estimated_end	18454051
	located_end	18475051		
CH322-71L13 X	3668504	3689504	located_end	3668504
	estimated_end	3689504		
CH322-71L15 3L	18769933	18790933	estimated_end	18769933
	located_end	18790933		
CH322-71L16 2R	9053407	9074407	estimated_end	9053407
	located_end	9074407		
CH322-71L18 3L	19951310	19972310	estimated_end	19951310
	located_end	19972310		
CH322-71L21 3L	13290417	13311417	estimated_end	13290417
	located_end	13311417		
CH322-71L22 X	12100465	12121465	located_end	12100465
	estimated_end	12121465		
CH322-71L24 3L	20261473	20282473	estimated_end	20261473
	located_end	20282473		
CH322-71M05 2R	12550216	12571216	estimated_end	12550216
	located_end	12571216		
CH322-71M06 2RHet	1643747	1664747	located_end	1643747
	estimated_end	1664747		
CH322-71M12 2L	13449873	13470873	estimated_end	13449873
	located_end	13470873		
CH322-71M14 2RHet	2815053	2836053	estimated_end	2815053
	located_end	2836053		
CH322-71M15 3R	22905454	22926454	located_end	22905454
	estimated_end	22926454		
CH322-71M16 3R	8058478	8079478	estimated_end	8058478
	located_end	8079478		
CH322-71M18 2L	9013958	9034958	located_end	9013958
	estimated_end	9034958		
CH322-71M23 2L	17064060	17085060	estimated_end	17064060
	located_end	17085060		
CH322-71N03 3R	23464706	23485706	located_end	23464706
	estimated_end	23485706		
CH322-71N04 2L	687285	708285	estimated_end	687285
	located_end	708285		
CH322-71N05 3R	6452262	6473262	estimated_end	6452262
	located_end	6473262		
CH322-71N06 2L	16417528	16438528	located_end	16417528
	estimated_end	16438528		
CH322-71N07 2R	14084914	14105914	located_end	14084914
	estimated_end	14105914		
CH322-71N17 2R	19659477	19680477	located_end	19659477
	estimated_end	19680477		
CH322-71N20 3L	15191437	15212437	estimated_end	15191437
	located_end	15212437		
CH322-71N22 2L	12791959	12812959	estimated_end	12791959
	located_end	12812959		
CH322-71N23 2L	15895884	15916884	located_end	15895884
	estimated_end	15916884		

CH322-71N24 3R	9861040	9882040	located_end	9861040
	estimated_end	9882040		
CH322-71O04 3L	17628387	17649387	estimated_end	17628387
	located_end	17649387		
CH322-71O06 ArmU	1547141	1568141	estimated_end	1547141
	located_end	1568141		
CH322-71O08 X	7278898	7299898	estimated_end	7278898
	located_end	7299898		
CH322-71O11 3L	18147186	18168186	estimated_end	18147186
	located_end	18168186		
CH322-71O13 3R	14298186	14319186	located_end	14298186
	estimated_end	14319186		
CH322-71O18 2L	7100624	7121624	estimated_end	7100624
	located_end	7121624		
CH322-71O20 X	21286136	21307136	estimated_end	21286136
	located_end	21307136		
CH322-71O23 2RHet	1042328	1063328	located_end	1042328
	estimated_end	1063328		
CH322-71P01 2L	3205886	3226886	estimated_end	3205886
	located_end	3226886		
CH322-71P03 3RHet	746984	767984	located_end	746984
	estimated_end	767984		
CH322-71P06 2R	20661377	20682377	estimated_end	20661377
	located_end	20682377		
CH322-71P07 3L	2693116	2714116	located_end	2693116
	estimated_end	2714116		
CH322-71P10 2L	9557833	9578833	estimated_end	9557833
	located_end	9578833		
CH322-71P11 2R	6699149	6720149	located_end	6699149
	estimated_end	6720149		
CH322-71P12 3R	203696	224696	estimated_end	203696
	located_end	224696		
CH322-71P16 3R	21385753	21406753	estimated_end	21385753
	located_end	21406753		
CH322-71P18 3L	7861863	7882863	located_end	7861863
	estimated_end	7882863		
CH322-71P20 3R	5323093	5344093	estimated_end	5323093
	located_end	5344093		
CH322-72A14 4	1042234	1063234	estimated_end	1042234
	located_end	1063234		
CH322-72A18 3L	16492525	16513525	located_end	16492525
	estimated_end	16513525		
CH322-72A19 3L	23608920	23629920	estimated_end	23608920
	located_end	23629920		
CH322-72A20 3L	17708104	17729104	located_end	17708104
	estimated_end	17729104		
CH322-72A23 2L	15949317	15970317	located_end	15949317
	estimated_end	15970317		
CH322-72B10 X	13575773	13596773	located_end	13575773
	estimated_end	13596773		
CH322-72B16 3R	6847360	6868360	estimated_end	6847360
	located_end	6868360		
CH322-72B18 3L	5970365	5991365	located_end	5970365
	estimated_end	5991365		

CH322-72B19 2R	16690444	16711444	estimated_end	16690444
	located_end	16711444		
CH322-72B20 2R	16117222	16138222	located_end	16117222
	estimated_end	16138222		
CH322-72B22 3R	7001558	7022558	estimated_end	7001558
	located_end	7022558		
CH322-72B23 2R	11746808	11767808	located_end	11746808
	estimated_end	11767808		
CH322-72C09 3L	9776777	9797777	located_end	9776777
	estimated_end	9797777		
CH322-72C10 ArmU	173496	194496	located_end	173496
	estimated_end	194496		
CH322-72C13 X	4628548	4649548	estimated_end	4628548
	located_end	4649548		
CH322-72C14 X	20009558	20030558	located_end	20009558
	estimated_end	20030558		
CH322-72C15 4	437992	458992	located_end	437992
	estimated_end	458992		
CH322-72C16 3LHet	1943830	1964830	located_end	1943830
	estimated_end	1964830		
CH322-72C18 X	1171160	1192160	located_end	1171160
	estimated_end	1192160		
CH322-72C19 2R	20528222	20549222	estimated_end	20528222
	located_end	20549222		
CH322-72C22 3RHet	812135	833135	located_end	812135
	estimated_end	833135		
CH322-72C23 3L	2693609	2714609	estimated_end	2693609
	located_end	2714609		
CH322-72D02 X	4722088	4743088	estimated_end	4722088
	located_end	4743088		
CH322-72D06 3L	18497463	18518463	located_end	18497463
	estimated_end	18518463		
CH322-72D07 3RHet	2269116	2290116	estimated_end	2269116
	located_end	2290116		
CH322-72D08 3L	18285478	18306478	located_end	18285478
	estimated_end	18306478		
CH322-72D14 2R	2515350	2536350	located_end	2515350
	estimated_end	2536350		
CH322-72D19 3R	14163897	14184897	estimated_end	14163897
	located_end	14184897		
CH322-72D23 3RHet	386717	407717	estimated_end	386717
	located_end	407717		
CH322-72E02 2L	18903183	18924183	located_end	18903183
	estimated_end	18924183		
CH322-72E04 2L	17559736	17580736	estimated_end	17559736
	located_end	17580736		
CH322-72E06 3R	14152582	14173582	located_end	14152582
	estimated_end	14173582		
CH322-72E13 3L	4991864	5012864	estimated_end	4991864
	located_end	5012864		
CH322-72E16 3L	2817954	2838954	located_end	2817954
	estimated_end	2838954		
CH322-72E17 2R	2584619	2605619	located_end	2584619
	estimated_end	2605619		

CH322-72E18 3R	5216768	5237768	located_end	5216768
	estimated_end	5237768		
CH322-72E21 3L	853241	874241	estimated_end	853241
	located_end	874241		
CH322-72E23 3R	1243436	1264436	located_end	1243436
	estimated_end	1264436		
CH322-72E24 3R	21971236	21992236	estimated_end	21971236
	located_end	21992236		
CH322-72F02 2R	15826574	15847574	located_end	15826574
	estimated_end	15847574		
CH322-72F09 3LHet	1943830	1964830	located_end	1943830
	estimated_end	1964830		
CH322-72F11 2R	13620510	13641510	located_end	13620510
	estimated_end	13641510		
CH322-72F23 3R	20953005	20974005	estimated_end	20953005
	located_end	20974005		
CH322-72F24 2L	22141956	22162956	located_end	22141956
	estimated_end	22162956		
CH322-72G04 2L	16548944	16569944	estimated_end	16548944
	located_end	16569944		
CH322-72G05 2R	6657385	6678385	estimated_end	6657385
	located_end	6678385		
CH322-72G06 2R	18872049	18893049	estimated_end	18872049
	located_end	18893049		
CH322-72G09 3R	10049384	10070384	located_end	10049384
	estimated_end	10070384		
CH322-72G10 2L	5463652	5484652	located_end	5463652
	estimated_end	5484652		
CH322-72G17 3L	18769933	18790933	estimated_end	18769933
	located_end	18790933		
CH322-72G18 3L	13677089	13698089	located_end	13677089
	estimated_end	13698089		
CH322-72G19 3L	13291962	13312962	located_end	13291962
	estimated_end	13312962		
CH322-72H01 3R	20996922	21017922	located_end	20996922
	estimated_end	21017922		
CH322-72H03 3R	13815232	13836232	located_end	13815232
	estimated_end	13836232		
CH322-72H04 2R	17531850	17552850	estimated_end	17531850
	located_end	17552850		
CH322-72H06 2R	20150203	20171203	estimated_end	20150203
	located_end	20171203		
CH322-72H08 3L	9674915	9695915	estimated_end	9674915
	located_end	9695915		
CH322-72H09 X	4964032	4985032	located_end	4964032
	estimated_end	4985032		
CH322-72H10 2L	20933008	20954008	estimated_end	20933008
	located_end	20954008		
CH322-72H12 3R	10311839	10332839	estimated_end	10311839
	located_end	10332839		
CH322-72H14 3R	5296646	5317646	located_end	5296646
	estimated_end	5317646		
CH322-72H15 3L	19567661	19588661	located_end	19567661
	estimated_end	19588661		

CH322-72H18 2RHet	1392491	1413491	estimated_end	1392491
	located_end	1413491		
CH322-72H20 2RHet	1599253	1620253	estimated_end	1599253
	located_end	1620253		
CH322-72H23 2R	14379153	14400153	estimated_end	14379153
	located_end	14400153		
CH322-72I04 2R	21047141	21068141	located_end	21047141
	estimated_end	21068141		
CH322-72I05 X	4284013	4305013	estimated_end	4284013
	located_end	4305013		
CH322-72I07 2R	8617982	8638982	located_end	8617982
	estimated_end	8638982		
CH322-72I08 3R	11049037	11070037	located_end	11049037
	estimated_end	11070037		
CH322-72I17 2L	4279225	4300225	located_end	4279225
	estimated_end	4300225		
CH322-72I22 2L	3475193	3496193	located_end	3475193
	estimated_end	3496193		
CH322-72J02 3R	25344313	25365313	located_end	25344313
	estimated_end	25365313		
CH322-72J03 X	14890825	14911825	located_end	14890825
	estimated_end	14911825		
CH322-72J21 3L	6834466	6855466	located_end	6834466
	estimated_end	6855466		
CH322-72J23 2L	18419270	18440270	located_end	18419270
	estimated_end	18440270		
CH322-72K02 2R	11494912	11515912	estimated_end	11494912
	located_end	11515912		
CH322-72K04 3L	18104089	18125089	located_end	18104089
	estimated_end	18125089		
CH322-72K06 3R	13018085	13039085	estimated_end	13018085
	located_end	13039085		
CH322-72K08 X	6723033	6744033	located_end	6723033
	estimated_end	6744033		
CH322-72K10 3R	909401	930401	estimated_end	909401
	located_end	930401		
CH322-72K11 2R	15295314	15316314	located_end	15295314
	estimated_end	15316314		
CH322-72K13 3R	17049253	17070253	estimated_end	17049253
	located_end	17070253		
CH322-72K14 2L	5560261	5581261	located_end	5560261
	estimated_end	5581261		
CH322-72K16 2R	20563933	20584933	located_end	20563933
	estimated_end	20584933		
CH322-72K19 3R	5323495	5344495	located_end	5323495
	estimated_end	5344495		
CH322-72K21 2L	11565013	11586013	estimated_end	11565013
	located_end	11586013		
CH322-72K23 3R	27473234	27494234	located_end	27473234
	estimated_end	27494234		
CH322-72L06 X	3309373	3330373	estimated_end	3309373
	located_end	3330373		
CH322-72L07 2L	3973640	3994640	located_end	3973640
	estimated_end	3994640		

CH322-72L09 2L	3473632	3494632	estimated_end	3473632
	located_end	3494632		
CH322-72L12 3R	7065342	7086342	located_end	7065342
	estimated_end	7086342		
CH322-72L13 3R	24130163	24151163	estimated_end	24130163
	located_end	24151163		
CH322-72L16 3R	11108981	11129981	located_end	11108981
	estimated_end	11129981		
CH322-72L23 3L	3057440	3078440	located_end	3057440
	estimated_end	3078440		
CH322-72L24 3L	3839005	3860005	estimated_end	3839005
	located_end	3860005		
CH322-72M03 3R	23036769	23057769	located_end	23036769
	estimated_end	23057769		
CH322-72M05 3R	7061103	7082103	estimated_end	7061103
	located_end	7082103		
CH322-72M06 3R	10507516	10528516	located_end	10507516
	estimated_end	10528516		
CH322-72M07 4	568194	589194	located_end	568194
	estimated_end	589194		
CH322-72M09 3LHet	574422	595422	estimated_end	574422
	located_end	595422		
CH322-72M12 2R	13402847	13423847	located_end	13402847
	estimated_end	13423847		
CH322-72M17 3R	16937140	16958140	estimated_end	16937140
	located_end	16958140		
CH322-72M18 3R	26521423	26542423	located_end	26521423
	estimated_end	26542423		
CH322-72M23 3L	18541294	18562294	estimated_end	18541294
	located_end	18562294		
CH322-72M24 3R	23284503	23305503	estimated_end	23284503
	located_end	23305503		
CH322-72N03 3R	9069866	9090866	located_end	9069866
	estimated_end	9090866		
CH322-72N04 2R	14379153	14400153	estimated_end	14379153
	located_end	14400153		
CH322-72N06 2L	7618626	7639626	located_end	7618626
	estimated_end	7639626		
CH322-72N08 3L	24380020	24401020	located_end	24380020
	estimated_end	24401020		
CH322-72N12 3L	9547434	9568434	estimated_end	9547434
	located_end	9568434		
CH322-72N14 X	7136703	7157703	estimated_end	7136703
	located_end	7157703		
CH322-72N19 X	6720843	6741843	estimated_end	6720843
	located_end	6741843		
CH322-72N21 3R	13018234	13039234	estimated_end	13018234
	located_end	13039234		
CH322-72N22 3L	4990347	5011347	located_end	4990347
	estimated_end	5011347		
CH322-72N24 3L	6627612	6648612	located_end	6627612
	estimated_end	6648612		
CH322-72O08 3R	24550849	24571849	located_end	24550849
	estimated_end	24571849		

CH322-72009 3RHet	1874239	1895239	estimated_end	1874239
	located_end	1895239		
CH322-72010 3R	7881484	7902484	located_end	7881484
	estimated_end	7902484		
CH322-72013 X	12098269	12119269	estimated_end	12098269
	located_end	12119269		
CH322-72014 3R	6087087	6108087	located_end	6087087
	estimated_end	6108087		
CH322-72016 2L	2183683	2204683	estimated_end	2183683
	located_end	2204683		
CH322-72017 2L	6616953	6637953	located_end	6616953
	estimated_end	6637953		
CH322-72018 3L	1922792	1943792	estimated_end	1922792
	located_end	1943792		
CH322-72020 2L	9497942	9518942	located_end	9497942
	estimated_end	9518942		
CH322-72021 3L	16596277	16617277	estimated_end	16596277
	located_end	16617277		
CH322-72022 3R	1092491	1113491	located_end	1092491
	estimated_end	1113491		
CH322-72023 X	20006295	20027295	estimated_end	20006295
	located_end	20027295		
CH322-72024 X	13814366	13835366	located_end	13814366
	estimated_end	13835366		
CH322-72P04 2R	17286579	17307579	located_end	17286579
	estimated_end	17307579		
CH322-72P06 2L	17696985	17717985	located_end	17696985
	estimated_end	17717985		
CH322-72P09 3R	6839169	6860169	located_end	6839169
	estimated_end	6860169		
CH322-72P13 2L	22844047	22865047	located_end	22844047
	estimated_end	22865047		
CH322-72P15 2L	5835566	5856566	estimated_end	5835566
	located_end	5856566		
CH322-72P23 3L	14447105	14468105	estimated_end	14447105
	located_end	14468105		
CH322-73A01 X	12991749	13012749	located_end	12991749
	estimated_end	13012749		
CH322-73A02 3R	10583262	10604262	located_end	10583262
	estimated_end	10604262		
CH322-73A03 2L	22269780	22290780	located_end	22269780
	estimated_end	22290780		
CH322-73A07 2R	8107174	8128174	located_end	8107174
	estimated_end	8128174		
CH322-73A08 2L	17047397	17068397	located_end	17047397
	estimated_end	17068397		
CH322-73A10 X	9067504	9088504	estimated_end	9067504
	located_end	9088504		
CH322-73A12 3R	4690563	4711563	located_end	4690563
	estimated_end	4711563		
CH322-73A14 2L	920616	941616	estimated_end	920616
	located_end	941616		
CH322-73A15 2R	18448374	18469374	located_end	18448374
	estimated_end	18469374		

CH322-73A18 X	20956003	20977003	estimated_end	20956003
	located_end	20977003		
CH322-73A21 X	14626308	14647308	located_end	14626308
	estimated_end	14647308		
CH322-73A22 2L	3327374	3348374	estimated_end	3327374
	located_end	3348374		
CH322-73A24 3L	9171890	9192890	estimated_end	9171890
	located_end	9192890		
CH322-73B06 2R	4618034	4639034	estimated_end	4618034
	located_end	4639034		
CH322-73B07 3R	5521039	5542039	estimated_end	5521039
	located_end	5542039		
CH322-73B08 2L	4663691	4684691	estimated_end	4663691
	located_end	4684691		
CH322-73B09 3L	13855656	13876656	located_end	13855656
	estimated_end	13876656		
CH322-73B11 2R	20456950	20477950	estimated_end	20456950
	located_end	20477950		
CH322-73B12 2R	17478013	17499013	located_end	17478013
	estimated_end	17499013		
CH322-73B13 3L	21872345	21893345	estimated_end	21872345
	located_end	21893345		
CH322-73B14 2R	8559541	8580541	located_end	8559541
	estimated_end	8580541		
CH322-73B15 2L	5966565	5987565	located_end	5966565
	estimated_end	5987565		
CH322-73B17 X	21856549	21877549	estimated_end	21856549
	located_end	21877549		
CH322-73B21 X	9285846	9306846	estimated_end	9285846
	located_end	9306846		
CH322-73B22 3L	6144894	6165894	estimated_end	6144894
	located_end	6165894		
CH322-73B23 3L	24159217	24180217	located_end	24159217
	estimated_end	24180217		
CH322-73C03 3R	20821005	20842005	located_end	20821005
	estimated_end	20842005		
CH322-73C04 2R	11743031	11764031	located_end	11743031
	estimated_end	11764031		
CH322-73C05 3R	20972416	20993416	estimated_end	20972416
	located_end	20993416		
CH322-73C11 2L	3896063	3917063	estimated_end	3896063
	located_end	3917063		
CH322-73C12 2L	13752080	13773080	estimated_end	13752080
	located_end	13773080		
CH322-73C13 2L	1158129	1179129	estimated_end	1158129
	located_end	1179129		
CH322-73C14 ArmU	1191280	1212280	located_end	1191280
	estimated_end	1212280		
CH322-73C15 3R	9661708	9682708	located_end	9661708
	estimated_end	9682708		
CH322-73C18 3L	14634745	14655745	estimated_end	14634745
	located_end	14655745		
CH322-73D01 4	1054677	1075677	located_end	1054677
	estimated_end	1075677		

CH322-73D03 3L	6629600	6650600	located_end	6629600
	estimated_end	6650600		
CH322-73D07 3R	18462393	18483393	estimated_end	18462393
	located_end	18483393		
CH322-73D08 3L	17740822	17761822	estimated_end	17740822
	located_end	17761822		
CH322-73D10 2RHet	1704492	1725492	estimated_end	1704492
	located_end	1725492		
CH322-73D13 X	1137403	1158403	estimated_end	1137403
	located_end	1158403		
CH322-73D17 3R	10353678	10374678	estimated_end	10353678
	located_end	10374678		
CH322-73D18 2L	16059276	16080276	estimated_end	16059276
	located_end	16080276		
CH322-73D19 2R	19741842	19762842	estimated_end	19741842
	located_end	19762842		
CH322-73E04 3R	14597024	14618024	estimated_end	14597024
	located_end	14618024		
CH322-73E08 2R	12608445	12629445	estimated_end	12608445
	located_end	12629445		
CH322-73E10 3R	7382009	7403009	located_end	7382009
	estimated_end	7403009		
CH322-73E11 X	18442893	18463893	estimated_end	18442893
	located_end	18463893		
CH322-73E17 3R	11986207	12007207	estimated_end	11986207
	located_end	12007207		
CH322-73E19 ArmU	2927975	2948975	located_end	2927975
	estimated_end	2948975		
CH322-73E23 2L	10546728	10567728	estimated_end	10546728
	located_end	10567728		
CH322-73F03 2R	5131753	5152753	located_end	5131753
	estimated_end	5152753		
CH322-73F15 3R	23508263	23529263	estimated_end	23508263
	located_end	23529263		
CH322-73F16 3L	19015496	19036496	located_end	19015496
	estimated_end	19036496		
CH322-73F19 2L	11657650	11678650	estimated_end	11657650
	located_end	11678650		
CH322-73F21 ArmU	408704	429704	located_end	408704
	estimated_end	429704		
CH322-73F23 2R	1769617	1790617	located_end	1769617
	estimated_end	1790617		
CH322-73F24 2R	6349355	6370355	located_end	6349355
	estimated_end	6370355		
CH322-73G06 X	3707112	3728112	estimated_end	3707112
	located_end	3728112		
CH322-73G10 2R	5332441	5353441	estimated_end	5332441
	located_end	5353441		
CH322-73G15 2R	15338180	15359180	located_end	15338180
	estimated_end	15359180		
CH322-73G17 2L	9311142	9332142	estimated_end	9311142
	located_end	9332142		
CH322-73G18 3R	23373137	23394137	estimated_end	23373137
	located_end	23394137		

CH322-73H02 3RHet	556828	577828	located_end	556828
	estimated_end	577828		
CH322-73H05 2R	3732614	3753614	located_end	3732614
	estimated_end	3753614		
CH322-73H11 ArmU	1833417	1854417	located_end	1833417
	estimated_end	1854417		
CH322-73H13 ArmU	2699204	2720204	estimated_end	2699204
	located_end	2720204		
CH322-73H17 2L	19268922	19289922	estimated_end	19268922
	located_end	19289922		
CH322-73H19 2R	18651980	18672980	estimated_end	18651980
	located_end	18672980		
CH322-73I03 3R	21916584	21937584	located_end	21916584
	estimated_end	21937584		
CH322-73I04 3R	24679209	24700209	estimated_end	24679209
	located_end	24700209		
CH322-73I07 3L	21218719	21239719	located_end	21218719
	estimated_end	21239719		
CH322-73I20 3LHet	1266982	1287982	located_end	1266982
	estimated_end	1287982		
CH322-73I23 3R	2068870	2089870	located_end	2068870
	estimated_end	2089870		
CH322-73J01 3L	20390605	20411605	estimated_end	20390605
	located_end	20411605		
CH322-73J03 2R	7256248	7277248	located_end	7256248
	estimated_end	7277248		
CH322-73J04 2L	10707039	10728039	estimated_end	10707039
	located_end	10728039		
CH322-73J10 ArmU	5939242	5960242	located_end	5939242
	estimated_end	5960242		
CH322-73J14 2R	6872450	6893450	estimated_end	6872450
	located_end	6893450		
CH322-73J16 2L	22880360	22901360	estimated_end	22880360
	located_end	22901360		
CH322-73J17 3R	10844389	10865389	located_end	10844389
	estimated_end	10865389		
CH322-73J20 3R	22207450	22228450	estimated_end	22207450
	located_end	22228450		
CH322-73J22 X	14321084	14342084	located_end	14321084
	estimated_end	14342084		
CH322-73J24 3R	10888986	10909986	located_end	10888986
	estimated_end	10909986		
CH322-73K01 2R	59337	80337	estimated_end	59337
	located_end	80337		
CH322-73K02 3L	10218081	10239081	located_end	10218081
	estimated_end	10239081		
CH322-73K04 3L	11859885	11880885	estimated_end	11859885
	located_end	11880885		
CH322-73K06 X	11176173	11197173	estimated_end	11176173
	located_end	11197173		
CH322-73K15 2L	6178721	6199721	estimated_end	6178721
	located_end	6199721		
CH322-73K17 3R	7888069	7909069	located_end	7888069
	estimated_end	7909069		

CH322-73K24 3L	21531149	21552149	located_end	21531149
	estimated_end	21552149		
CH322-73L01 X	17075625	17096625	estimated_end	17075625
	located_end	17096625		
CH322-73L03 X	14324005	14345005	estimated_end	14324005
	located_end	14345005		
CH322-73L04 ArmU	976742	997742	located_end	976742
	estimated_end	997742		
CH322-73L06 2R	21080212	21101212	located_end	21080212
	estimated_end	21101212		
CH322-73L07 3R	9984128	10005128	located_end	9984128
	estimated_end	10005128		
CH322-73L10 3L	10510371	10531371	located_end	10510371
	estimated_end	10531371		
CH322-73L11 2L	4039464	4060464	located_end	4039464
	estimated_end	4060464		
CH322-73L13 2L	12953109	12974109	estimated_end	12953109
	located_end	12974109		
CH322-73L15 3L	1417943	1438943	estimated_end	1417943
	located_end	1438943		
CH322-73L17 2L	6963748	6984748	estimated_end	6963748
	located_end	6984748		
CH322-73L20 3L	19038842	19059842	estimated_end	19038842
	located_end	19059842		
CH322-73M01 3R	3444697	3465697	estimated_end	3444697
	located_end	3465697		
CH322-73M06 2R	6865722	6886722	estimated_end	6865722
	located_end	6886722		
CH322-73M07 3R	26870197	26891197	estimated_end	26870197
	located_end	26891197		
CH322-73M08 X	3553337	3574337	estimated_end	3553337
	located_end	3574337		
CH322-73M09 3L	12673951	12694951	located_end	12673951
	estimated_end	12694951		
CH322-73M10 3L	2581651	2602651	estimated_end	2581651
	located_end	2602651		
CH322-73M13 3L	7890994	7911994	located_end	7890994
	estimated_end	7911994		
CH322-73M14 2L	17040747	17061747	estimated_end	17040747
	located_end	17061747		
CH322-73M19 3R	23577662	23598662	located_end	23577662
	estimated_end	23598662		
CH322-73M20 2R	4988329	5009329	estimated_end	4988329
	located_end	5009329		
CH322-73M23 3R	6705470	6726470	estimated_end	6705470
	located_end	6726470		
CH322-73N01 2L	10509582	10530582	estimated_end	10509582
	located_end	10530582		
CH322-73N04 X	19255009	19276009	estimated_end	19255009
	located_end	19276009		
CH322-73N06 3L	21308432	21329432	estimated_end	21308432
	located_end	21329432		
CH322-73N07 3L	16657893	16678893	located_end	16657893
	estimated_end	16678893		

CH322-73N09 X	17320032	17341032	estimated_end	17320032
	located_end	17341032		
CH322-73N12 2L	6515754	6536754	estimated_end	6515754
	located_end	6536754		
CH322-73N13 2R	14255838	14276838	estimated_end	14255838
	located_end	14276838		
CH322-73N16 3R	21825444	21846444	estimated_end	21825444
	located_end	21846444		
CH322-73N19 2R	10958505	10979505	located_end	10958505
	estimated_end	10979505		
CH322-73N20 3L	7007796	7028796	estimated_end	7007796
	located_end	7028796		
CH322-73N21 ArmU	8720634	8741634	estimated_end	8720634
	located_end	8741634		
CH322-73O01 3R	26045223	26066223	located_end	26045223
	estimated_end	26066223		
CH322-73O05 3R	14157828	14178828	estimated_end	14157828
	located_end	14178828		
CH322-73O07 2L	16677152	16698152	estimated_end	16677152
	located_end	16698152		
CH322-73O15 3L	8278990	8299990	estimated_end	8278990
	located_end	8299990		
CH322-73O20 2R	9737835	9758835	estimated_end	9737835
	located_end	9758835		
CH322-73O21 3L	14012520	14033520	located_end	14012520
	estimated_end	14033520		
CH322-73P01 X	4640729	4661729	estimated_end	4640729
	located_end	4661729		
CH322-73P04 2RHet	2590059	2611059	located_end	2590059
	estimated_end	2611059		
CH322-73P07 3R	2166929	2187929	estimated_end	2166929
	located_end	2187929		
CH322-73P08 3R	4636858	4657858	located_end	4636858
	estimated_end	4657858		
CH322-73P09 2R	13072043	13093043	located_end	13072043
	estimated_end	13093043		
CH322-73P11 X	20354913	20375913	located_end	20354913
	estimated_end	20375913		
CH322-73P12 2L	5690974	5711974	estimated_end	5690974
	located_end	5711974		
CH322-73P15 X	14771136	14792136	located_end	14771136
	estimated_end	14792136		
CH322-73P17 3L	1302291	1323291	located_end	1302291
	estimated_end	1323291		
CH322-73P18 3R	5754045	5775045	estimated_end	5754045
	located_end	5775045		
CH322-73P19 2L	1766377	1787377	estimated_end	1766377
	located_end	1787377		
CH322-73P20 X	6717484	6738484	located_end	6717484
	estimated_end	6738484		
CH322-74A10 X	17614995	17635995	estimated_end	17614995
	located_end	17635995		
CH322-74A13 2RHet	7604	28604	located_end	7604
	estimated_end	28604		

CH322-74A15 2L	5239323	5260323	estimated_end	5239323
	located_end	5260323		
CH322-74A16 2R	19494364	19515364	estimated_end	19494364
	located_end	19515364		
CH322-74A18 3L	16892138	16913138	located_end	16892138
	estimated_end	16913138		
CH322-74A22 3L	18916575	18937575	located_end	18916575
	estimated_end	18937575		
CH322-74A23 3R	3211254	3232254	located_end	3211254
	estimated_end	3232254		
CH322-74A24 2R	20755891	20776891	located_end	20755891
	estimated_end	20776891		
CH322-74B01 X	3951702	3972702	located_end	3951702
	estimated_end	3972702		
CH322-74B05 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-74B09 2L	6478841	6499841	located_end	6478841
	estimated_end	6499841		
CH322-74B11 3L	17042319	17063319	estimated_end	17042319
	located_end	17063319		
CH322-74B12 3R	11692219	11713219	located_end	11692219
	estimated_end	11713219		
CH322-74B13 2RHet	3095596	3116596	located_end	3095596
	estimated_end	3116596		
CH322-74B14 ArmU	2864523	2885523	located_end	2864523
	estimated_end	2885523		
CH322-74B15 3R	12015499	12036499	estimated_end	12015499
	located_end	12036499		
CH322-74B18 3R	13316280	13337280	located_end	13316280
	estimated_end	13337280		
CH322-74B20 2L	5829238	5850238	estimated_end	5829238
	located_end	5850238		
CH322-74B21 2L	6879622	6900622	estimated_end	6879622
	located_end	6900622		
CH322-74C07 2L	12208489	12229489	located_end	12208489
	estimated_end	12229489		
CH322-74C09 2R	9057566	9078566	located_end	9057566
	estimated_end	9078566		
CH322-74C10 2L	68392	89392	located_end	68392
	estimated_end	89392		
CH322-74C11 3R	24193425	24214425	located_end	24193425
	estimated_end	24214425		
CH322-74C13 X	14253855	14274855	located_end	14253855
	estimated_end	14274855		
CH322-74C14 3R	11324914	11345914	located_end	11324914
	estimated_end	11345914		
CH322-74C17 2RHet	2339493	2360493	estimated_end	2339493
	located_end	2360493		
CH322-74C18 3L	19940671	19961671	located_end	19940671
	estimated_end	19961671		
CH322-74C20 3RHet	590954	611954	located_end	590954
	estimated_end	611954		
CH322-74C21 3R	7546613	7567613	estimated_end	7546613
	located_end	7567613		

CH322-74C23 X	19879035	19900035	estimated_end	19879035
	located_end	19900035		
CH322-74D10 2L	1015241	1036241	located_end	1015241
	estimated_end	1036241		
CH322-74D12 3L	16189801	16210801	located_end	16189801
	estimated_end	16210801		
CH322-74D13 2R	8765231	8786231	estimated_end	8765231
	located_end	8786231		
CH322-74D18 2L	6362784	6383784	located_end	6362784
	estimated_end	6383784		
CH322-74D20 3L	10110863	10131863	located_end	10110863
	estimated_end	10131863		
CH322-74E04 3L	139228	160228	located_end	139228
	estimated_end	160228		
CH322-74E06 3L	19054721	19075721	located_end	19054721
	estimated_end	19075721		
CH322-74E08 2L	13578975	13599975	located_end	13578975
	estimated_end	13599975		
CH322-74E10 3R	3045227	3066227	located_end	3045227
	estimated_end	3066227		
CH322-74E12 2R	9604549	9625549	estimated_end	9604549
	located_end	9625549		
CH322-74E13 3R	6390858	6411858	estimated_end	6390858
	located_end	6411858		
CH322-74E14 3L	18310817	18331817	estimated_end	18310817
	located_end	18331817		
CH322-74E15 3L	2416817	2437817	located_end	2416817
	estimated_end	2437817		
CH322-74E16 3R	14877783	14898783	located_end	14877783
	estimated_end	14898783		
CH322-74E17 2RHet	1418610	1439610	estimated_end	1418610
	located_end	1439610		
CH322-74E18 3R	12803801	12824801	estimated_end	12803801
	located_end	12824801		
CH322-74E19 2R	16027743	16048743	located_end	16027743
	estimated_end	16048743		
CH322-74E22 3R	8698356	8719356	located_end	8698356
	estimated_end	8719356		
CH322-74F02 X	1616791	1637791	located_end	1616791
	estimated_end	1637791		
CH322-74F05 3L	1898161	1919161	estimated_end	1898161
	located_end	1919161		
CH322-74F08 ArmU	1911028	1932028	estimated_end	1911028
	located_end	1932028		
CH322-74F17 3L	15627864	15648864	estimated_end	15627864
	located_end	15648864		
CH322-74F20 2R	11066179	11087179	estimated_end	11066179
	located_end	11087179		
CH322-74F22 3R	3215929	3236929	located_end	3215929
	estimated_end	3236929		
CH322-74F24 2L	7723035	7744035	located_end	7723035
	estimated_end	7744035		
CH322-74G04 ArmU	2301774	2322774	located_end	2301774
	estimated_end	2322774		

CH322-74G05 ArmU	949488	970488	estimated_end	949488
	located_end	970488		
CH322-74G06 2L	9708969	9729969	estimated_end	9708969
	located_end	9729969		
CH322-74G10 2R	10686876	10707876	located_end	10686876
	estimated_end	10707876		
CH322-74G11 3L	1189723	1210723	located_end	1189723
	estimated_end	1210723		
CH322-74G20 3L	14209825	14230825	estimated_end	14209825
	located_end	14230825		
CH322-74G22 2L	17691461	17712461	estimated_end	17691461
	located_end	17712461		
CH322-74G23 2L	18019729	18040729	located_end	18019729
	estimated_end	18040729		
CH322-74H04 X	2967653	2988653	estimated_end	2967653
	located_end	2988653		
CH322-74H06 ArmU	949488	970488	estimated_end	949488
	located_end	970488		
CH322-74H10 ArmU	1414285	1435285	estimated_end	1414285
	located_end	1435285		
CH322-74H12 2R	2348171	2369171	located_end	2348171
	estimated_end	2369171		
CH322-74H21 3R	21747914	21768914	estimated_end	21747914
	located_end	21768914		
CH322-74H22 2R	5856809	5877809	estimated_end	5856809
	located_end	5877809		
CH322-74I03 X	22019181	22040181	estimated_end	22019181
	located_end	22040181		
CH322-74I05 2L	2717871	2738871	estimated_end	2717871
	located_end	2738871		
CH322-74I06 X	11833485	11854485	located_end	11833485
	estimated_end	11854485		
CH322-74I08 3L	6631109	6652109	located_end	6631109
	estimated_end	6652109		
CH322-74I09 X	10137662	10158662	estimated_end	10137662
	located_end	10158662		
CH322-74I11 3R	194939	215939	estimated_end	194939
	located_end	215939		
CH322-74I13 X	6047327	6068327	located_end	6047327
	estimated_end	6068327		
CH322-74I14 2R	1099132	1120132	located_end	1099132
	estimated_end	1120132		
CH322-74I16 3L	10397531	10418531	located_end	10397531
	estimated_end	10418531		
CH322-74I19 2L	6355560	6376560	located_end	6355560
	estimated_end	6376560		
CH322-74J02 2L	10864223	10885223	estimated_end	10864223
	located_end	10885223		
CH322-74J10 2R	12334963	12355963	estimated_end	12334963
	located_end	12355963		
CH322-74K08 3L	19453069	19474069	estimated_end	19453069
	located_end	19474069		
CH322-74K16 X	14394190	14415190	estimated_end	14394190
	located_end	14415190		

CH322-74K18 2L	13306905	13327905	estimated_end	13306905
	located_end	13327905		
CH322-74K21 ArmU	918670	939670	located_end	918670
	estimated_end	939670		
CH322-74K23 3R	13658189	13679189	estimated_end	13658189
	located_end	13679189		
CH322-74K24 3L	997912	1018912	estimated_end	997912
	located_end	1018912		
CH322-74L10 2L	19693403	19714403	located_end	19693403
	estimated_end	19714403		
CH322-74L12 3R	10914187	10935187	located_end	10914187
	estimated_end	10935187		
CH322-74L15 3R	2975440	2996440	estimated_end	2975440
	located_end	2996440		
CH322-74L17 2R	13340875	13361875	estimated_end	13340875
	located_end	13361875		
CH322-74L18 2L	20335442	20356442	located_end	20335442
	estimated_end	20356442		
CH322-74L20 3L	2329982	2350982	estimated_end	2329982
	located_end	2350982		
CH322-74M05 X	144196	165196	located_end	144196
	estimated_end	165196		
CH322-74M06 3R	24753881	24774881	estimated_end	24753881
	located_end	24774881		
CH322-74M09 3R	7152812	7173812	located_end	7152812
	estimated_end	7173812		
CH322-74M10 3R	11756611	11777611	located_end	11756611
	estimated_end	11777611		
CH322-74M13 2R	15085561	15106561	located_end	15085561
	estimated_end	15106561		
CH322-74M14 3L	4774492	4795492	located_end	4774492
	estimated_end	4795492		
CH322-74M15 2L	12243425	12264425	located_end	12243425
	estimated_end	12264425		
CH322-74M18 3R	21973959	21994959	located_end	21973959
	estimated_end	21994959		
CH322-74M23 X	4918915	4939915	estimated_end	4918915
	located_end	4939915		
CH322-74N08 X	12867592	12888592	located_end	12867592
	estimated_end	12888592		
CH322-74N10 3L	9400599	9421599	located_end	9400599
	estimated_end	9421599		
CH322-74N19 3R	12449765	12470765	located_end	12449765
	estimated_end	12470765		
CH322-74N23 3L	13147127	13168127	estimated_end	13147127
	located_end	13168127		
CH322-74O06 2L	12980601	13001601	located_end	12980601
	estimated_end	13001601		
CH322-74O09 2L	1015771	1036771	located_end	1015771
	estimated_end	1036771		
CH322-74O10 3R	26623818	26644818	located_end	26623818
	estimated_end	26644818		
CH322-74O14 3R	9257617	9278617	located_end	9257617
	estimated_end	9278617		

CH322-74O18 3L	17130979	17151979	located_end	17130979
	estimated_end	17151979		
CH322-74O19 2L	19325118	19346118	located_end	19325118
	estimated_end	19346118		
CH322-74O23 2R	4654176	4675176	located_end	4654176
	estimated_end	4675176		
CH322-74P05 3R	25518588	25539588	estimated_end	25518588
	located_end	25539588		
CH322-74P13 2L	2317383	2338383	estimated_end	2317383
	located_end	2338383		
CH322-74P16 X	10450571	10471571	estimated_end	10450571
	located_end	10471571		
CH322-74P18 2L	7995133	8016133	located_end	7995133
	estimated_end	8016133		
CH322-74P19 X	18972319	18993319	located_end	18972319
	estimated_end	18993319		
CH322-74P20 3R	5792959	5813959	located_end	5792959
	estimated_end	5813959		
CH322-74P21 2R	14340608	14361608	located_end	14340608
	estimated_end	14361608		
CH322-74P24 3R	413218	434218	located_end	413218
	estimated_end	434218		
CH322-75A06 3L	9316113	9337113	located_end	9316113
	estimated_end	9337113		
CH322-75A07 ArmU	9023919	9044919	located_end	9023919
	estimated_end	9044919		
CH322-75A09 3L	21840704	21861704	estimated_end	21840704
	located_end	21861704		
CH322-75A12 2L	9803607	9824607	located_end	9803607
	estimated_end	9824607		
CH322-75A13 3R	3554090	3575090	estimated_end	3554090
	located_end	3575090		
CH322-75A14 2R	10904856	10925856	estimated_end	10904856
	located_end	10925856		
CH322-75A17 3L	20697692	20718692	located_end	20697692
	estimated_end	20718692		
CH322-75A18 3R	21245239	21266239	estimated_end	21245239
	located_end	21266239		
CH322-75A19 X	16880350	16901350	located_end	16880350
	estimated_end	16901350		
CH322-75B08 2R	17172869	17193869	located_end	17172869
	estimated_end	17193869		
CH322-75B10 2L	20514089	20535089	estimated_end	20514089
	located_end	20535089		
CH322-75B12 2L	4361257	4382257	located_end	4361257
	estimated_end	4382257		
CH322-75B16 3L	16392383	16413383	estimated_end	16392383
	located_end	16413383		
CH322-75B20 3L	9895835	9916835	estimated_end	9895835
	located_end	9916835		
CH322-75C05 3R	7421869	7442869	located_end	7421869
	estimated_end	7442869		
CH322-75C09 X	4576648	4597648	estimated_end	4576648
	located_end	4597648		

CH322-75C10 3L	19774661	19795661	estimated_end	19774661
	located_end	19795661		
CH322-75C11 2R	3305159	3326159	located_end	3305159
	estimated_end	3326159		
CH322-75C14 X	5710242	5731242	estimated_end	5710242
	located_end	5731242		
CH322-75C15 3R	13229623	13250623	estimated_end	13229623
	located_end	13250623		
CH322-75C19 3R	24370026	24391026	located_end	24370026
	estimated_end	24391026		
CH322-75D02 ArmU	9802751	9823751	estimated_end	9802751
	located_end	9823751		
CH322-75D03 3L	19940696	19961696	located_end	19940696
	estimated_end	19961696		
CH322-75D04 3LHet	728833	749833	estimated_end	728833
	located_end	749833		
CH322-75D06 2L	3951210	3972210	estimated_end	3951210
	located_end	3972210		
CH322-75D12 X	6861039	6882039	estimated_end	6861039
	located_end	6882039		
CH322-75D14 X	13799539	13820539	located_end	13799539
	estimated_end	13820539		
CH322-75E06 X	6270462	6291462	located_end	6270462
	estimated_end	6291462		
CH322-75E13 2RHet	1118621	1139621	estimated_end	1118621
	located_end	1139621		
CH322-75E14 3R	15083533	15104533	located_end	15083533
	estimated_end	15104533		
CH322-75E22 X	20598949	20619949	estimated_end	20598949
	located_end	20619949		
CH322-75E23 X	9191410	9212410	located_end	9191410
	estimated_end	9212410		
CH322-75E24 3R	24619466	24640466	estimated_end	24619466
	located_end	24640466		
CH322-75F03 2R	20257853	20278853	located_end	20257853
	estimated_end	20278853		
CH322-75F06 3R	1592959	1613959	estimated_end	1592959
	located_end	1613959		
CH322-75F13 X	7322352	7343352	estimated_end	7322352
	located_end	7343352		
CH322-75F14 2R	3024236	3045236	estimated_end	3024236
	located_end	3045236		
CH322-75F16 3L	14534012	14555012	estimated_end	14534012
	located_end	14555012		
CH322-75F18 3L	13115196	13136196	estimated_end	13115196
	located_end	13136196		
CH322-75F22 3R	8902497	8923497	estimated_end	8902497
	located_end	8923497		
CH322-75G04 3R	5528002	5549002	located_end	5528002
	estimated_end	5549002		
CH322-75G10 2R	13544743	13565743	located_end	13544743
	estimated_end	13565743		
CH322-75G13 ArmU	9440792	9461792	estimated_end	9440792
	located_end	9461792		

CH322-75G20 ArmU	2435626	2456626	located_end 2435626
estimated_end	2456626		
CH322-75G21 2R	1189091	1210091	located_end 1189091
estimated_end	1210091		
CH322-75G23 2L	4293467	4314467	estimated_end 4293467
located_end	4314467		
CH322-75H02 2R	11630112	11651112	located_end 11630112
estimated_end	11651112		
CH322-75H04 3L	13324380	13345380	estimated_end 13324380
located_end	13345380		
CH322-75H05 2L	3655361	3676361	located_end 3655361
estimated_end	3676361		
CH322-75H09 3L	18406405	18427405	estimated_end 18406405
located_end	18427405		
CH322-75H10 3R	26646672	26667672	located_end 26646672
estimated_end	26667672		
CH322-75H11 2L	18615112	18636112	located_end 18615112
estimated_end	18636112		
CH322-75H12 2L	6677979	6698979	located_end 6677979
estimated_end	6698979		
CH322-75H19 2R	5632936	5653936	located_end 5632936
estimated_end	5653936		
CH322-75H21 2R	8667745	8688745	located_end 8667745
estimated_end	8688745		
CH322-75H22 X	14528795	14549795	located_end 14528795
estimated_end	14549795		
CH322-75H23 2L	6347852	6368852	located_end 6347852
estimated_end	6368852		
CH322-75H24 2L	8868379	8889379	located_end 8868379
estimated_end	8889379		
CH322-75I02 3L	5810728	5831728	estimated_end 5810728
located_end	5831728		
CH322-75I05 2L	9722167	9743167	estimated_end 9722167
located_end	9743167		
CH322-75I09 X	3581962	3602962	located_end 3581962
estimated_end	3602962		
CH322-75I11 3R	15564370	15585370	located_end 15564370
estimated_end	15585370		
CH322-75I13 2L	20605252	20626252	located_end 20605252
estimated_end	20626252		
CH322-75I17 2R	17992578	18013578	estimated_end 17992578
located_end	18013578		
CH322-75I19 2L	570562	591562	located_end 570562
estimated_end	591562		
CH322-75I21 2R	2646196	2667196	estimated_end 2646196
located_end	2667196		
CH322-75J01 3L	10258001	10279001	located_end 10258001
estimated_end	10279001		
CH322-75J03 3L	15694060	15715060	located_end 15694060
estimated_end	15715060		
CH322-75J04 2R	18081256	18102256	located_end 18081256
estimated_end	18102256		
CH322-75J05 X	2058573	2079573	estimated_end 2058573
located_end	2079573		

CH322-75J13 2L	11469556	11490556	estimated_end	11469556
	located_end	11490556		
CH322-75J14 3L	12177072	12198072	estimated_end	12177072
	located_end	12198072		
CH322-75J24 2R	13767323	13788323	located_end	13767323
	estimated_end	13788323		
CH322-75K01 3RHet	1911903	1932903	located_end	1911903
	estimated_end	1932903		
CH322-75K07 2L	9314747	9335747	located_end	9314747
	estimated_end	9335747		
CH322-75K12 2R	17063934	17084934	estimated_end	17063934
	located_end	17084934		
CH322-75K13 2L	9216139	9237139	located_end	9216139
	estimated_end	9237139		
CH322-75K20 2R	11997390	12018390	estimated_end	11997390
	located_end	12018390		
CH322-75K21 3LHet	206354	227354	estimated_end	206354
	located_end	227354		
CH322-75K22 3L	13459702	13480702	located_end	13459702
	estimated_end	13480702		
CH322-75L02 2L	13414274	13435274	located_end	13414274
	estimated_end	13435274		
CH322-75L11 3R	23416217	23437217	estimated_end	23416217
	located_end	23437217		
CH322-75L12 3R	24235888	24256888	estimated_end	24235888
	located_end	24256888		
CH322-75L14 2R	12402272	12423272	estimated_end	12402272
	located_end	12423272		
CH322-75L15 2L	1986263	2007263	estimated_end	1986263
	located_end	2007263		
CH322-75L16 3R	16088260	16109260	located_end	16088260
	estimated_end	16109260		
CH322-75L24 ArmU	2685103	2706103	estimated_end	2685103
	located_end	2706103		
CH322-75M03 X	20584636	20605636	located_end	20584636
	estimated_end	20605636		
CH322-75M06 X	3951621	3972621	estimated_end	3951621
	located_end	3972621		
CH322-75M15 2R	19658500	19679500	estimated_end	19658500
	located_end	19679500		
CH322-75M23 2L	7588816	7609816	estimated_end	7588816
	located_end	7609816		
CH322-75M24 X	20412540	20433540	estimated_end	20412540
	located_end	20433540		
CH322-75N05 3L	22034675	22055675	estimated_end	22034675
	located_end	22055675		
CH322-75N07 3R	26197028	26218028	estimated_end	26197028
	located_end	26218028		
CH322-75N08 3L	6661727	6682727	located_end	6661727
	estimated_end	6682727		
CH322-75N09 2L	1823786	1844786	located_end	1823786
	estimated_end	1844786		
CH322-75N12 X	21919419	21940419	located_end	21919419
	estimated_end	21940419		

CH322-75N15 3R	22313759	22334759	estimated_end	22313759
	located_end	22334759		
CH322-75N16 3R	5460273	5481273	located_end	5460273
	estimated_end	5481273		
CH322-75N17 3R	3965833	3986833	located_end	3965833
	estimated_end	3986833		
CH322-75N18 X	17851242	17872242	located_end	17851242
	estimated_end	17872242		
CH322-75N22 3R	26488785	26509785	located_end	26488785
	estimated_end	26509785		
CH322-75N24 X	18107607	18128607	estimated_end	18107607
	located_end	18128607		
CH322-75O08 3R	22648960	22669960	located_end	22648960
	estimated_end	22669960		
CH322-75O11 2L	10952748	10973748	estimated_end	10952748
	located_end	10973748		
CH322-75O15 3R	23546325	23567325	estimated_end	23546325
	located_end	23567325		
CH322-75O18 X	22165988	22186988	estimated_end	22165988
	located_end	22186988		
CH322-75O23 3R	22742641	22763641	estimated_end	22742641
	located_end	22763641		
CH322-75P03 2L	4362531	4383531	located_end	4362531
	estimated_end	4383531		
CH322-75P06 3R	22351686	22372686	estimated_end	22351686
	located_end	22372686		
CH322-75P07 3L	11054076	11075076	located_end	11054076
	estimated_end	11075076		
CH322-75P09 2L	9322159	9343159	estimated_end	9322159
	located_end	9343159		
CH322-75P16 3R	19468882	19489882	estimated_end	19468882
	located_end	19489882		
CH322-75P19 3R	18387411	18408411	located_end	18387411
	estimated_end	18408411		
CH322-75P20 2R	8651959	8672959	estimated_end	8651959
	located_end	8672959		
CH322-76A02 3L	9267284	9288284	estimated_end	9267284
	located_end	9288284		
CH322-76A05 3L	2429239	2450239	located_end	2429239
	estimated_end	2450239		
CH322-76A06 3L	14805802	14826802	located_end	14805802
	estimated_end	14826802		
CH322-76A12 3L	9383886	9404886	estimated_end	9383886
	located_end	9404886		
CH322-76A21 2L	363537	384537	estimated_end	363537
	located_end	384537		
CH322-76A23 2RHet	1454363	1475363	estimated_end	1454363
	located_end	1475363		
CH322-76B01 3R	9323953	9344953	located_end	9323953
	estimated_end	9344953		
CH322-76B02 3L	6838237	6859237	located_end	6838237
	estimated_end	6859237		
CH322-76B23 3R	4679725	4700725	located_end	4679725
	estimated_end	4700725		

CH322-76C01 ArmU	7624486	7645486	located_end	7624486
	estimated_end	7645486		
CH322-76C02 X	16118185	16139185	estimated_end	16118185
	located_end	16139185		
CH322-76C07 3L	19357705	19378705	located_end	19357705
	estimated_end	19378705		
CH322-76D08 3R	11232413	11253413	located_end	11232413
	estimated_end	11253413		
CH322-76E04 3L	18046833	18067833	estimated_end	18046833
	located_end	18067833		
CH322-76E08 2L	22272555	22293555	estimated_end	22272555
	located_end	22293555		
CH322-76E18 2R	6725303	6746303	located_end	6725303
	estimated_end	6746303		
CH322-76E19 2L	5251568	5272568	estimated_end	5251568
	located_end	5272568		
CH322-76F04 3R	5669840	5690840	estimated_end	5669840
	located_end	5690840		
CH322-76F12 3R	9981078	10002078	located_end	9981078
	estimated_end	10002078		
CH322-76F13 3R	1740593	1761593	located_end	1740593
	estimated_end	1761593		
CH322-76F19 3R	16599437	16620437	estimated_end	16599437
	located_end	16620437		
CH322-76F24 X	20146802	20167802	located_end	20146802
	estimated_end	20167802		
CH322-76G14 3Rhet	1398623	1419623	located_end	1398623
	estimated_end	1419623		
CH322-76G16 3L	3491585	3512585	estimated_end	3491585
	located_end	3512585		
CH322-76G24 3L	11453849	11474849	located_end	11453849
	estimated_end	11474849		
CH322-76H03 3R	26170508	26191508	estimated_end	26170508
	located_end	26191508		
CH322-76H13 2L	150250	171250	estimated_end	150250
	located_end	171250		
CH322-76H16 3R	26980697	27001697	located_end	26980697
	estimated_end	27001697		
CH322-76I01 3L	15356378	15377378	located_end	15356378
	estimated_end	15377378		
CH322-76I05 2L	9283906	9304906	located_end	9283906
	estimated_end	9304906		
CH322-76I08 3L	23647428	23668428	located_end	23647428
	estimated_end	23668428		
CH322-76I10 2L	6045340	6066340	estimated_end	6045340
	located_end	6066340		
CH322-76I20 2L	19795098	19816098	located_end	19795098
	estimated_end	19816098		
CH322-76I24 2L	1826198	1847198	located_end	1826198
	estimated_end	1847198		
CH322-76J19 3L	10463960	10484960	located_end	10463960
	estimated_end	10484960		
CH322-76J20 3R	8944798	8965798	estimated_end	8944798
	located_end	8965798		

CH322-76J24 X	4120629	4141629	located_end	4120629
	estimated_end	4141629		
CH322-76K10 X	17824487	17845487	located_end	17824487
	estimated_end	17845487		
CH322-76K11 X	348504	369504	located_end	348504
	estimated_end	369504		
CH322-76K17 3L	6088625	6109625	located_end	6088625
	estimated_end	6109625		
CH322-76K18 2R	16210712	16231712	located_end	16210712
	estimated_end	16231712		
CH322-76K20 3R	12400431	12421431	located_end	12400431
	estimated_end	12421431		
CH322-76K23 3L	11261295	11282295	estimated_end	11261295
	located_end	11282295		
CH322-76L07 3R	23625330	23646330	located_end	23625330
	estimated_end	23646330		
CH322-76L10 ArmU	2182146	2203146	estimated_end	2182146
	located_end	2203146		
CH322-76L11 X	10317765	10338765	estimated_end	10317765
	located_end	10338765		
CH322-76L14 3L	18769939	18790939	estimated_end	18769939
	located_end	18790939		
CH322-76L15 X	8847579	8868579	estimated_end	8847579
	located_end	8868579		
CH322-76L17 3R	4314690	4335690	estimated_end	4314690
	located_end	4335690		
CH322-76L19 X	17497829	17518829	located_end	17497829
	estimated_end	17518829		
CH322-76L20 X	8370404	8391404	located_end	8370404
	estimated_end	8391404		
CH322-76L24 2R	18597513	18618513	estimated_end	18597513
	located_end	18618513		
CH322-76M07 3L	19460542	19481542	estimated_end	19460542
	located_end	19481542		
CH322-76M10 3R	4193942	4214942	estimated_end	4193942
	located_end	4214942		
CH322-76M12 2L	19369484	19390484	located_end	19369484
	estimated_end	19390484		
CH322-76M19 X	18110744	18131744	estimated_end	18110744
	located_end	18131744		
CH322-76M23 2L	1551492	1572492	located_end	1551492
	estimated_end	1572492		
CH322-76M24 3R	20966525	20987525	estimated_end	20966525
	located_end	20987525		
CH322-76N08 2L	22645426	22666426	located_end	22645426
	estimated_end	22666426		
CH322-76N16 3R	8900625	8921625	located_end	8900625
	estimated_end	8921625		
CH322-76N24 X	20833500	20854500	located_end	20833500
	estimated_end	20854500		
CH322-76O17 3L	5085363	5106363	located_end	5085363
	estimated_end	5106363		
CH322-76O20 2L	8890812	8911812	located_end	8890812
	estimated_end	8911812		

CH322-76P02 2L	12596478	12617478	located_end	12596478
	estimated_end	12617478		
CH322-76P06 ArmU	9789033	9810033	estimated_end	9789033
	located_end	9810033		
CH322-76P15 3LHet	2489287	2510287	located_end	2489287
	estimated_end	2510287		
CH322-76P21 3L	11664221	11685221	estimated_end	11664221
	located_end	11685221		
CH322-76P23 3LHet	2138626	2159626	estimated_end	2138626
	located_end	2159626		
CH322-77A02 2R	7435052	7456052	estimated_end	7435052
	located_end	7456052		
CH322-77A11 X	9501709	9522709	located_end	9501709
	estimated_end	9522709		
CH322-77A23 2L	12927947	12948947	estimated_end	12927947
	located_end	12948947		
CH322-77B01 2R	364837	385837	located_end	364837
	estimated_end	385837		
CH322-77B04 2L	7129612	7150612	located_end	7129612
	estimated_end	7150612		
CH322-77B12 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-77B20 X	18649755	18670755	estimated_end	18649755
	located_end	18670755		
CH322-77C07 X	2395306	2416306	estimated_end	2395306
	located_end	2416306		
CH322-77C14 3R	2317140	2338140	located_end	2317140
	estimated_end	2338140		
CH322-77C19 2R	11618246	11639246	estimated_end	11618246
	located_end	11639246		
CH322-77C20 2R	5826247	5847247	located_end	5826247
	estimated_end	5847247		
CH322-77D04 ArmU	3234918	3255918	located_end	3234918
	estimated_end	3255918		
CH322-77D05 ArmU	5698734	5719734	located_end	5698734
	estimated_end	5719734		
CH322-77D08 3R	25780612	25801612	located_end	25780612
	estimated_end	25801612		
CH322-77D19 2L	7162946	7183946	estimated_end	7162946
	located_end	7183946		
CH322-77D24 X	3699524	3720524	estimated_end	3699524
	located_end	3720524		
CH322-77E02 3R	19387247	19408247	estimated_end	19387247
	located_end	19408247		
CH322-77E08 X	12951975	12972975	estimated_end	12951975
	located_end	12972975		
CH322-77E20 X	2899959	2920959	located_end	2899959
	estimated_end	2920959		
CH322-77F16 X	20392703	20413703	located_end	20392703
	estimated_end	20413703		
CH322-77F19 ArmU	4696145	4717145	located_end	4696145
	estimated_end	4717145		
CH322-77G05 2L	13598037	13619037	estimated_end	13598037
	located_end	13619037		

CH322-77G13 3RHet	1816743	1837743	estimated_end	1816743
	located_end	1837743		
CH322-77H01 3L	21412026	21433026	located_end	21412026
	estimated_end	21433026		
CH322-77H04 3R	3555080	3576080	estimated_end	3555080
	located_end	3576080		
CH322-77H07 2RHet	430017	451017	estimated_end	430017
	located_end	451017		
CH322-77H09 2R	491319	512319	located_end	491319
	estimated_end	512319		
CH322-77H10 3R	3531585	3552585	estimated_end	3531585
	located_end	3552585		
CH322-77H18 X	7905453	7926453	located_end	7905453
	estimated_end	7926453		
CH322-77I01 4	1070755	1091755	located_end	1070755
	estimated_end	1091755		
CH322-77I06 3L	8009161	8030161	estimated_end	8009161
	located_end	8030161		
CH322-77I11 2R	925654	946654	located_end	925654
	estimated_end	946654		
CH322-77I22 3L	13520724	13541724	estimated_end	13520724
	located_end	13541724		
CH322-77J01 X	6393488	6414488	located_end	6393488
	estimated_end	6414488		
CH322-77J18 2L	21613472	21634472	located_end	21613472
	estimated_end	21634472		
CH322-77K03 3L	9909080	9930080	located_end	9909080
	estimated_end	9930080		
CH322-77K08 X	3954889	3975889	estimated_end	3954889
	located_end	3975889		
CH322-77K11 3LHet	1149811	1170811	located_end	1149811
	estimated_end	1170811		
CH322-77L05 3LHet	-6727	14273	estimated_end	-6727
	located_end	14273	located_end	14273
CH322-77L14 2L	19151662	19172662	estimated_end	19151662
	located_end	19172662		
CH322-77M03 X	22271604	22292604	located_end	22271604
	estimated_end	22292604		
CH322-77M14 2R	1738081	1759081	located_end	1738081
	estimated_end	1759081		
CH322-77N01 ArmU	9346376	9367376	located_end	9346376
	estimated_end	9367376		
CH322-77N05 3R	897815	918815	estimated_end	897815
	located_end	918815		
CH322-77N06 X	5392489	5413489	located_end	5392489
	estimated_end	5413489		
CH322-77N17 ArmU	4008971	4029971	estimated_end	4008971
	located_end	4029971		
CH322-77N19 3R	23571014	23592014	estimated_end	23571014
	located_end	23592014		
CH322-77N24 3R	20014963	20035963	located_end	20014963
	estimated_end	20035963		
CH322-77O22 3R	20580063	20601063	located_end	20580063
	estimated_end	20601063		

CH322-77P05 3R	15513134	15534134	located_end	15513134
	estimated_end	15534134		
CH322-77P14 2R	16672081	16693081	estimated_end	16672081
	located_end	16693081		
CH322-78A06 2L	10910130	10931130	located_end	10910130
	estimated_end	10931130		
CH322-78A08 2L	16687242	16708242	located_end	16687242
	estimated_end	16708242		
CH322-78A09 2L	11659692	11680692	estimated_end	11659692
	located_end	11680692		
CH322-78A18 3L	63647	84647	estimated_end	63647
	located_end	84647		
CH322-78B02 2L	14132262	14153262	located_end	14132262
	estimated_end	14153262		
CH322-78B04 3R	11530722	11551722	estimated_end	11530722
	located_end	11551722		
CH322-78B07 2R	10159353	10180353	located_end	10159353
	estimated_end	10180353		
CH322-78B22 2R	19293656	19314656	estimated_end	19293656
	located_end	19314656		
CH322-78C01 2RHet	1646873	1667873	located_end	1646873
	estimated_end	1667873		
CH322-78C07 3L	14284785	14305785	located_end	14284785
	estimated_end	14305785		
CH322-78C23 X	19438211	19459211	estimated_end	19438211
	located_end	19459211		
CH322-78D01 3L	686166	707166	estimated_end	686166
	located_end	707166		
CH322-78D04 2RHet	1556563	1577563	located_end	1556563
	estimated_end	1577563		
CH322-78D11 ArmU	5698993	5719993	located_end	5698993
	estimated_end	5719993		
CH322-78D20 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-78D23 X	3655451	3676451	estimated_end	3655451
	located_end	3676451		
CH322-78E01 3R	10424731	10445731	located_end	10424731
	estimated_end	10445731		
CH322-78E02 X	5669224	5690224	located_end	5669224
	estimated_end	5690224		
CH322-78E03 ArmU	171541	192541	estimated_end	171541
	located_end	192541		
CH322-78E05 2R	6521735	6542735	estimated_end	6521735
	located_end	6542735		
CH322-78E06 3R	13270943	13291943	located_end	13270943
	estimated_end	13291943		
CH322-78E09 2R	1984745	2005745	estimated_end	1984745
	located_end	2005745		
CH322-78E11 X	12845706	12866706	located_end	12845706
	estimated_end	12866706		
CH322-78F04 3R	10961237	10982237	estimated_end	10961237
	located_end	10982237		
CH322-78F08 X	3156591	3177591	located_end	3156591
	estimated_end	3177591		

CH322-78F09 3RHet	1210090	1231090	located_end	1210090
	estimated_end	1231090		
CH322-78F20 3L	3457479	3478479	located_end	3457479
	estimated_end	3478479		
CH322-78G05 3L	129682	150682	estimated_end	129682
	located_end	150682		
CH322-78G11 3R	4580287	4601287	located_end	4580287
	estimated_end	4601287		
CH322-78G21 2R	17610445	17631445	located_end	17610445
	estimated_end	17631445		
CH322-78G23 X	4630135	4651135	estimated_end	4630135
	located_end	4651135		
CH322-78H22 3L	22441522	22462522	estimated_end	22441522
	located_end	22462522		
CH322-78I02 2L	15276183	15297183	located_end	15276183
	estimated_end	15297183		
CH322-78I04 3L	10212231	10233231	located_end	10212231
	estimated_end	10233231		
CH322-78I19 2R	14250457	14271457	estimated_end	14250457
	located_end	14271457		
CH322-78I20 3L	15907529	15928529	located_end	15907529
	estimated_end	15928529		
CH322-78J01 3L	13634121	13655121	estimated_end	13634121
	located_end	13655121		
CH322-78J14 X	10016479	10037479	located_end	10016479
	estimated_end	10037479		
CH322-78J20 X	4055310	4076310	estimated_end	4055310
	located_end	4076310		
CH322-78K04 3R	20433369	20454369	located_end	20433369
	estimated_end	20454369		
CH322-78L01 2L	4150956	4171956	located_end	4150956
	estimated_end	4171956		
CH322-78L13 X	19966996	19987996	located_end	19966996
	estimated_end	19987996		
CH322-78M01 X	11174607	11195607	estimated_end	11174607
	located_end	11195607		
CH322-78M02 2R	185209	206209	located_end	185209
	estimated_end	206209		
CH322-78M04 X	6016636	6037636	located_end	6016636
	estimated_end	6037636		
CH322-78M12 3L	6382498	6403498	located_end	6382498
	estimated_end	6403498		
CH322-78M24 3R	19393708	19414708	estimated_end	19393708
	located_end	19414708		
CH322-78N02 3R	23117557	23138557	estimated_end	23117557
	located_end	23138557		
CH322-78N07 X	4865638	4886638	located_end	4865638
	estimated_end	4886638		
CH322-78O08 3L	4186954	4207954	estimated_end	4186954
	located_end	4207954		
CH322-78O24 3R	6253407	6274407	estimated_end	6253407
	located_end	6274407		
CH322-78P05 3R	9268575	9289575	estimated_end	9268575
	located_end	9289575		

CH322-78P07 2RHet	231372	252372	located_end	231372
	estimated_end	252372		
CH322-78P09 3L	6217076	6238076	estimated_end	6217076
	located_end	6238076		
CH322-78P10 X	20164659	20185659	estimated_end	20164659
	located_end	20185659		
CH322-78P17 3L	3746513	3767513	located_end	3746513
	estimated_end	3767513		
CH322-78P21 3R	17071046	17092046	estimated_end	17071046
	located_end	17092046		
CH322-78P24 X	2997807	3018807	located_end	2997807
	estimated_end	3018807		
CH322-79A08 X	11414580	11435580	located_end	11414580
	estimated_end	11435580		
CH322-79A09 2L	8866919	8887919	estimated_end	8866919
	located_end	8887919		
CH322-79A16 3R	24463537	24484537	estimated_end	24463537
	located_end	24484537		
CH322-79A19 3L	22777976	22798976	located_end	22777976
	estimated_end	22798976		
CH322-79B01 3R	26884423	26905423	located_end	26884423
	estimated_end	26905423		
CH322-79B07 X	13356818	13377818	estimated_end	13356818
	located_end	13377818		
CH322-79B09 3R	4448424	4469424	estimated_end	4448424
	located_end	4469424		
CH322-79B10 2L	22921789	22942789	located_end	22921789
	estimated_end	22942789		
CH322-79B13 2R	4668922	4689922	estimated_end	4668922
	located_end	4689922		
CH322-79B16 2R	807215	828215	estimated_end	807215
	located_end	828215		
CH322-79B21 ArmU	6684351	6705351	estimated_end	6684351
	located_end	6705351		
CH322-79C07 3L	3665317	3686317	estimated_end	3665317
	located_end	3686317		
CH322-79C09 3R	5110907	5131907	located_end	5110907
	estimated_end	5131907		
CH322-79C12 3L	23562660	23583660	estimated_end	23562660
	located_end	23583660		
CH322-79C15 3L	19888895	19909895	estimated_end	19888895
	located_end	19909895		
CH322-79C17 2R	7769394	7790394	estimated_end	7769394
	located_end	7790394		
CH322-79C24 3L	20491986	20512986	estimated_end	20491986
	located_end	20512986		
CH322-79D11 2L	16868385	16889385	estimated_end	16868385
	located_end	16889385		
CH322-79D18 2L	3381692	3402692	estimated_end	3381692
	located_end	3402692		
CH322-79D19 2R	16508188	16529188	located_end	16508188
	estimated_end	16529188		
CH322-79D21 3LHet	732128	753128	estimated_end	732128
	located_end	753128		

CH322-79E06 X	12616379	12637379	located_end	12616379
	estimated_end	12637379		
CH322-79E07 2L	5872996	5893996	estimated_end	5872996
	located_end	5893996		
CH322-79E11 X	5384797	5405797	estimated_end	5384797
	located_end	5405797		
CH322-79E12 2R	2284006	2305006	estimated_end	2284006
	located_end	2305006		
CH322-79E16 2L	18546077	18567077	located_end	18546077
	estimated_end	18567077		
CH322-79E20 3LHet	1904121	1925121	estimated_end	1904121
	located_end	1925121		
CH322-79F01 3L	20306804	20327804	located_end	20306804
	estimated_end	20327804		
CH322-79F06 3LHet	1406257	1427257	estimated_end	1406257
	located_end	1427257		
CH322-79F08 2R	7323948	7344948	located_end	7323948
	estimated_end	7344948		
CH322-79F09 3L	10390349	10411349	located_end	10390349
	estimated_end	10411349		
CH322-79F11 2R	15200629	15221629	estimated_end	15200629
	located_end	15221629		
CH322-79G02 2R	236614	257614	located_end	236614
	estimated_end	257614		
CH322-79G07 3R	19506456	19527456	located_end	19506456
	estimated_end	19527456		
CH322-79G15 X	14218291	14239291	located_end	14218291
	estimated_end	14239291		
CH322-79G17 2R	18849182	18870182	estimated_end	18849182
	located_end	18870182		
CH322-79G23 3R	17014622	17035622	estimated_end	17014622
	located_end	17035622		
CH322-79H05 X	399252	420252	located_end	399252
	estimated_end	420252		
CH322-79H06 2R	773063	794063	estimated_end	773063
	located_end	794063		
CH322-79H08 2L	18789370	18810370	estimated_end	18789370
	located_end	18810370		
CH322-79H11 X	4295895	4316895	located_end	4295895
	estimated_end	4316895		
CH322-79H12 3L	22023935	22044935	estimated_end	22023935
	located_end	22044935		
CH322-79H17 X	2477591	2498591	located_end	2477591
	estimated_end	2498591		
CH322-79H19 3L	15526865	15547865	located_end	15526865
	estimated_end	15547865		
CH322-79H24 2L	8584107	8605107	estimated_end	8584107
	located_end	8605107		
CH322-79I11 3L	19920822	19941822	located_end	19920822
	estimated_end	19941822		
CH322-79I15 2R	17829769	17850769	located_end	17829769
	estimated_end	17850769		
CH322-79I19 3R	24336519	24357519	located_end	24336519
	estimated_end	24357519		

CH322-79I21 3L	14836578	14857578	located_end	14836578
	estimated_end	14857578		
CH322-79I23 2R	5433759	5454759	estimated_end	5433759
	located_end	5454759		
CH322-79J03 ArmU	5677737	5698737	estimated_end	5677737
	located_end	5698737		
CH322-79J06 2L	1763788	1784788	estimated_end	1763788
	located_end	1784788		
CH322-79J08 2L	20277567	20298567	estimated_end	20277567
	located_end	20298567		
CH322-79J17 3R	1286442	1307442	located_end	1286442
	estimated_end	1307442		
CH322-79K07 2L	6617375	6638375	estimated_end	6617375
	located_end	6638375		
CH322-79K13 2R	7962363	7983363	estimated_end	7962363
	located_end	7983363		
CH322-79K16 3LHet	2403941	2424941	estimated_end	2403941
	located_end	2424941		
CH322-79K20 3L	10063036	10084036	estimated_end	10063036
	located_end	10084036		
CH322-79K24 2R	10358713	10379713	estimated_end	10358713
	located_end	10379713		
CH322-79L07 3LHet	148846	169846	estimated_end	148846
	located_end	169846		
CH322-79L15 3R	4527776	4548776	located_end	4527776
	estimated_end	4548776		
CH322-79L24 3R	1161402	1182402	estimated_end	1161402
	located_end	1182402		
CH322-79M13 X	739973	760973	located_end	739973
	estimated_end	760973		
CH322-79M19 2L	17878498	17899498	located_end	17878498
	estimated_end	17899498		
CH322-79M23 2L	1731568	1752568	estimated_end	1731568
	located_end	1752568		
CH322-79M24 2R	6437685	6458685	located_end	6437685
	estimated_end	6458685		
CH322-79N05 2R	263794	284794	located_end	263794
	estimated_end	284794		
CH322-79N16 3L	10803089	10824089	located_end	10803089
	estimated_end	10824089		
CH322-79N23 3L	18195844	18216844	estimated_end	18195844
	located_end	18216844		
CH322-79N24 X	12723082	12744082	estimated_end	12723082
	located_end	12744082		
CH322-79O02 2R	6067501	6088501	estimated_end	6067501
	located_end	6088501		
CH322-79O10 2L	1085829	1106829	located_end	1085829
	estimated_end	1106829		
CH322-79O13 2L	13213259	13234259	estimated_end	13213259
	located_end	13234259		
CH322-79P06 2L	6879920	6900920	estimated_end	6879920
	located_end	6900920		
CH322-79P18 2RHet	3182148	3203148	located_end	3182148
	estimated_end	3203148		

CH322-79P24 3R	10559246	10580246	estimated_end	10559246
	located_end	10580246		
CH322-80A09 3R	15913230	15934230	located_end	15913230
	estimated_end	15934230		
CH322-80A16 3R	6600988	6621988	estimated_end	6600988
	located_end	6621988		
CH322-80B07 3L	14443520	14464520	located_end	14443520
	estimated_end	14464520		
CH322-80B08 2R	6136685	6157685	estimated_end	6136685
	located_end	6157685		
CH322-80B09 2L	511653	532653	located_end	511653
	estimated_end	532653		
CH322-80B10 3L	14091935	14112935	located_end	14091935
	estimated_end	14112935		
CH322-80B12 2L	4286565	4307565	estimated_end	4286565
	located_end	4307565		
CH322-80B15 2L	614505	635505	estimated_end	614505
	located_end	635505		
CH322-80B17 3R	4364998	4385998	located_end	4364998
	estimated_end	4385998		
CH322-80B18 2R	12066846	12087846	estimated_end	12066846
	located_end	12087846		
CH322-80B19 2R	19716617	19737617	estimated_end	19716617
	located_end	19737617		
CH322-80B20 3L	9492391	9513391	estimated_end	9492391
	located_end	9513391		
CH322-80B22 3L	642156	663156	located_end	642156
	estimated_end	663156		
CH322-80B24 2L	2675219	2696219	estimated_end	2675219
	located_end	2696219		
CH322-80C02 2L	22636133	22657133	located_end	22636133
	estimated_end	22657133		
CH322-80C04 3R	8989118	9010118	estimated_end	8989118
	located_end	9010118		
CH322-80C07 3L	5954538	5975538	estimated_end	5954538
	located_end	5975538		
CH322-80C08 X	2996307	3017307	located_end	2996307
	estimated_end	3017307		
CH322-80C09 3R	26045069	26066069	estimated_end	26045069
	located_end	26066069		
CH322-80C10 3R	5730398	5751398	estimated_end	5730398
	located_end	5751398		
CH322-80C18 2R	7760886	7781886	located_end	7760886
	estimated_end	7781886		
CH322-80C20 X	15087948	15108948	located_end	15087948
	estimated_end	15108948		
CH322-80C21 3R	12865699	12886699	located_end	12865699
	estimated_end	12886699		
CH322-80D02 2R	20312882	20333882	estimated_end	20312882
	located_end	20333882		
CH322-80D04 3L	16287616	16308616	estimated_end	16287616
	located_end	16308616		
CH322-80D05 3L	4542889	4563889	estimated_end	4542889
	located_end	4563889		

CH322-80D08 2R	13071062	13092062	estimated_end	13071062
	located_end	13092062		
CH322-80D10 YHet	168607	189607	estimated_end	168607
	located_end	189607		
CH322-80D12 3L	12811459	12832459	located_end	12811459
	estimated_end	12832459		
CH322-80D13 3L	11745349	11766349	located_end	11745349
	estimated_end	11766349		
CH322-80D14 2L	8463437	8484437	estimated_end	8463437
	located_end	8484437		
CH322-80D15 X	18475048	18496048	located_end	18475048
	estimated_end	18496048		
CH322-80D16 3L	12667475	12688475	estimated_end	12667475
	located_end	12688475		
CH322-80D17 2L	12760507	12781507	located_end	12760507
	estimated_end	12781507		
CH322-80D19 2L	1315267	1336267	located_end	1315267
	estimated_end	1336267		
CH322-80D21 2L	11474279	11495279	located_end	11474279
	estimated_end	11495279		
CH322-80E01 2L	22277072	22298072	estimated_end	22277072
	located_end	22298072		
CH322-80E02 2R	4032395	4053395	estimated_end	4032395
	located_end	4053395		
CH322-80E03 X	15733471	15754471	located_end	15733471
	estimated_end	15754471		
CH322-80E07 2L	16927201	16948201	estimated_end	16927201
	located_end	16948201		
CH322-80E12 2R	10951678	10972678	located_end	10951678
	estimated_end	10972678		
CH322-80E13 3L	5958571	5979571	estimated_end	5958571
	located_end	5979571		
CH322-80E14 3R	21280315	21301315	estimated_end	21280315
	located_end	21301315		
CH322-80E15 X	20913177	20934177	estimated_end	20913177
	located_end	20934177		
CH322-80E16 2L	10922403	10943403	estimated_end	10922403
	located_end	10943403		
CH322-80E17 3R	9503513	9524513	estimated_end	9503513
	located_end	9524513		
CH322-80E18 X	15162352	15183352	located_end	15162352
	estimated_end	15183352		
CH322-80E19 2L	19467345	19488345	estimated_end	19467345
	located_end	19488345		
CH322-80F04 3R	26045414	26066414	estimated_end	26045414
	located_end	26066414		
CH322-80F08 3L	21540835	21561835	located_end	21540835
	estimated_end	21561835		
CH322-80F09 2L	7340276	7361276	estimated_end	7340276
	located_end	7361276		
CH322-80F11 3L	878798	899798	located_end	878798
	estimated_end	899798		
CH322-80F13 X	5473086	5494086	estimated_end	5473086
	located_end	5494086		

CH322-80F14 3R	6200842	6221842	estimated_end	6200842
	located_end	6221842		
CH322-80F16 3R	9169883	9190883	located_end	9169883
	estimated_end	9190883		
CH322-80F17 2L	9043562	9064562	estimated_end	9043562
	located_end	9064562		
CH322-80F18 3L	245732	266732	located_end	245732
	estimated_end	266732		
CH322-80F19 3R	1412228	1433228	located_end	1412228
	estimated_end	1433228		
CH322-80F20 3R	2591233	2612233	located_end	2591233
	estimated_end	2612233		
CH322-80F24 3R	456885	477885	located_end	456885
	estimated_end	477885		
CH322-80G04 3R	21283286	21304286	estimated_end	21283286
	located_end	21304286		
CH322-80G06 2L	5529618	5550618	estimated_end	5529618
	located_end	5550618		
CH322-80G08 3R	23238753	23259753	located_end	23238753
	estimated_end	23259753		
CH322-80G10 3R	24119618	24140618	estimated_end	24119618
	located_end	24140618		
CH322-80G11 2L	12218944	12239944	estimated_end	12218944
	located_end	12239944		
CH322-80G12 2R	15061605	15082605	located_end	15061605
	estimated_end	15082605		
CH322-80G13 2L	12432723	12453723	estimated_end	12432723
	located_end	12453723		
CH322-80G19 3R	17448584	17469584	estimated_end	17448584
	located_end	17469584		
CH322-80G23 X	1105573	1126573	estimated_end	1105573
	located_end	1126573		
CH322-80G24 2R	1092142	1113142	estimated_end	1092142
	located_end	1113142		
CH322-80H01 2R	13791435	13812435	estimated_end	13791435
	located_end	13812435		
CH322-80H02 3L	2454835	2475835	estimated_end	2454835
	located_end	2475835		
CH322-80H07 3R	22897256	22918256	located_end	22897256
	estimated_end	22918256		
CH322-80H08 3R	886154	907154	estimated_end	886154
	located_end	907154		
CH322-80H10 2L	7948901	7969901	estimated_end	7948901
	located_end	7969901		
CH322-80H11 2L	6682485	6703485	estimated_end	6682485
	located_end	6703485		
CH322-80H12 2L	12678280	12699280	estimated_end	12678280
	located_end	12699280		
CH322-80H13 3L	22324751	22345751	estimated_end	22324751
	located_end	22345751		
CH322-80H14 3L	18844742	18865742	located_end	18844742
	estimated_end	18865742		
CH322-80H15 2R	14911427	14932427	located_end	14911427
	estimated_end	14932427		

CH322-80H18 2L	10750445	10771445	estimated_end	10750445
	located_end	10771445		
CH322-80H19 3L	13646808	13667808	estimated_end	13646808
	located_end	13667808		
CH322-80H21 2R	20396422	20417422	estimated_end	20396422
	located_end	20417422		
CH322-80H24 2R	14253685	14274685	estimated_end	14253685
	located_end	14274685		
CH322-80I03 3L	7558059	7579059	located_end	7558059
	estimated_end	7579059		
CH322-80I04 2R	18018293	18039293	located_end	18018293
	estimated_end	18039293		
CH322-80I05 X	4279703	4300703	estimated_end	4279703
	located_end	4300703		
CH322-80I11 3L	7156621	7177621	estimated_end	7156621
	located_end	7177621		
CH322-80I12 2R	7688940	7709940	estimated_end	7688940
	located_end	7709940		
CH322-80I13 2R	11981700	12002700	located_end	11981700
	estimated_end	12002700		
CH322-80I14 2R	8234256	8255256	located_end	8234256
	estimated_end	8255256		
CH322-80I15 4	227018	248018	estimated_end	227018
	located_end	248018		
CH322-80I20 3R	17956669	17977669	estimated_end	17956669
	located_end	17977669		
CH322-80I22 3L	14973379	14994379	estimated_end	14973379
	located_end	14994379		
CH322-80J05 3L	36491 57491	located_end 36491	estimated_end	57491
CH322-80J06 2R	1310061	1331061	located_end	1310061
	estimated_end	1331061		
CH322-80J07 2L	2995260	3016260	estimated_end	2995260
	located_end	3016260		
CH322-80J08 2L	11841433	11862433	estimated_end	11841433
	located_end	11862433		
CH322-80J11 3R	8161896	8182896	located_end	8161896
	estimated_end	8182896		
CH322-80J13 3R	3776464	3797464	estimated_end	3776464
	located_end	3797464		
CH322-80J14 3R	15611186	15632186	estimated_end	15611186
	located_end	15632186		
CH322-80J16 3L	507353	528353	located_end	507353
	estimated_end	528353		
CH322-80J17 3LHet	2198517	2219517	located_end	2198517
	estimated_end	2219517		
CH322-80J18 3L	22177058	22198058	located_end	22177058
	estimated_end	22198058		
CH322-80J19 2L	20363089	20384089	estimated_end	20363089
	located_end	20384089		
CH322-80J23 3L	13293114	13314114	located_end	13293114
	estimated_end	13314114		
CH322-80K08 2R	12135186	12156186	located_end	12135186
	estimated_end	12156186		

CH322-80K10 3L	15898338	15919338	located_end	15898338
	estimated_end	15919338		
CH322-80K18 ArmU	8370200	8391200	located_end	8370200
	estimated_end	8391200		
CH322-80K21 3L	13494131	13515131	located_end	13494131
	estimated_end	13515131		
CH322-80K22 2R	6477849	6498849	estimated_end	6477849
	located_end	6498849		
CH322-80K24 3R	18392226	18413226	located_end	18392226
	estimated_end	18413226		
CH322-80L06 2L	15832406	15853406	estimated_end	15832406
	located_end	15853406		
CH322-80L08 ArmU	1546660	1567660	estimated_end	1546660
	located_end	1567660		
CH322-80L09 2L	5138937	5159937	located_end	5138937
	estimated_end	5159937		
CH322-80L10 3L	22133081	22154081	estimated_end	22133081
	located_end	22154081		
CH322-80L15 2L	5438836	5459836	estimated_end	5438836
	located_end	5459836		
CH322-80L17 X	733208	754208	located_end	733208
	estimated_end	754208		
CH322-80L18 3R	3540164	3561164	located_end	3540164
	estimated_end	3561164		
CH322-80L19 2L	14523108	14544108	located_end	14523108
	estimated_end	14544108		
CH322-80L21 2L	6588221	6609221	estimated_end	6588221
	located_end	6609221		
CH322-80L22 2L	9223205	9244205	located_end	9223205
	estimated_end	9244205		
CH322-80L24 3R	10631065	10652065	located_end	10631065
	estimated_end	10652065		
CH322-80M01 X	429856	450856	located_end	429856
	estimated_end	450856		
CH322-80M03 2L	785812	806812	located_end	785812
	estimated_end	806812		
CH322-80M07 2R	1582920	1603920	estimated_end	1582920
	located_end	1603920		
CH322-80M18 3R	18699893	18720893	estimated_end	18699893
	located_end	18720893		
CH322-80M20 3LHet	891793	912793	estimated_end	891793
	located_end	912793		
CH322-80M21 2R	13313000	13334000	located_end	13313000
	estimated_end	13334000		
CH322-80M24 2R	5353438	5374438	located_end	5353438
	estimated_end	5374438		
CH322-80N03 3L	11493057	11514057	estimated_end	11493057
	located_end	11514057		
CH322-80N11 X	13559050	13580050	estimated_end	13559050
	located_end	13580050		
CH322-80N12 2R	20294376	20315376	located_end	20294376
	estimated_end	20315376		
CH322-80N15 2R	3659532	3680532	estimated_end	3659532
	located_end	3680532		

CH322-80N19 2RHet	215542	236542	estimated_end	215542
	located_end	236542		
CH322-80N20 3R	26905249	26926249	estimated_end	26905249
	located_end	26926249		
CH322-80N21 3L	23652901	23673901	estimated_end	23652901
	located_end	23673901		
CH322-80N22 2R	19531827	19552827	estimated_end	19531827
	located_end	19552827		
CH322-80N23 X	3268561	3289561	estimated_end	3268561
	located_end	3289561		
CH322-80N24 2R	20500594	20521594	located_end	20500594
	estimated_end	20521594		
CH322-80O06 2L	20653711	20674711	located_end	20653711
	estimated_end	20674711		
CH322-80O11 3R	2265980	2286980	located_end	2265980
	estimated_end	2286980		
CH322-80O13 2L	13566620	13587620	estimated_end	13566620
	located_end	13587620		
CH322-80O21 3L	909990	930990	located_end	909990
	estimated_end	930990		
CH322-80P01 ArmU	3152482	3173482	estimated_end	3152482
	located_end	3173482		
CH322-80P08 3R	11191384	11212384	estimated_end	11191384
	located_end	11212384		
CH322-80P10 2L	6077184	6098184	located_end	6077184
	estimated_end	6098184		
CH322-80P11 2R	14286420	14307420	located_end	14286420
	estimated_end	14307420		
CH322-80P14 2L	9261556	9282556	located_end	9261556
	estimated_end	9282556		
CH322-80P20 2RHet	896886	917886	estimated_end	896886
	located_end	917886		
CH322-80P21 2L	17177413	17198413	estimated_end	17177413
	located_end	17198413		
CH322-80P22 3L	2323649	2344649	located_end	2323649
	estimated_end	2344649		
CH322-80P24 2L	18038211	18059211	located_end	18038211
	estimated_end	18059211		
CH322-81A08 ArmU	2302798	2323798	located_end	2302798
	estimated_end	2323798		
CH322-81A09 2R	19854744	19875744	located_end	19854744
	estimated_end	19875744		
CH322-81A10 2L	22885700	22906700	estimated_end	22885700
	located_end	22906700		
CH322-81A11 2L	21026484	21047484	located_end	21026484
	estimated_end	21047484		
CH322-81A14 3R	17002285	17023285	estimated_end	17002285
	located_end	17023285		
CH322-81A16 3L	12879039	12900039	estimated_end	12879039
	located_end	12900039		
CH322-81A21 3L	13822415	13843415	located_end	13822415
	estimated_end	13843415		
CH322-81A22 2L	5808202	5829202	estimated_end	5808202
	located_end	5829202		

CH322-81A24 3L	1323226	1344226	estimated_end	1323226
	located_end	1344226		
CH322-81B04 3R	21533027	21554027	located_end	21533027
	estimated_end	21554027		
CH322-81B06 2R	6043079	6064079	located_end	6043079
	estimated_end	6064079		
CH322-81B15 X	4676408	4697408	estimated_end	4676408
	located_end	4697408		
CH322-81B21 X	4720458	4741458	estimated_end	4720458
	located_end	4741458		
CH322-81B22 3L	18949742	18970742	estimated_end	18949742
	located_end	18970742		
CH322-81C04 3L	251822	272822	estimated_end	251822
	located_end	272822		
CH322-81C05 3L	21305320	21326320	estimated_end	21305320
	located_end	21326320		
CH322-81C07 2R	12249783	12270783	estimated_end	12249783
	located_end	12270783		
CH322-81C08 2L	5042087	5063087	located_end	5042087
	estimated_end	5063087		
CH322-81C18 X	1426556	1447556	located_end	1426556
	estimated_end	1447556		
CH322-81C23 2L	85063	106063	estimated_end	85063
	located_end	106063	located_end	106063
CH322-81D02 2R	250804	271804	located_end	250804
	estimated_end	271804		
CH322-81D19 3R	4687142	4708142	estimated_end	4687142
	located_end	4708142		
CH322-81E08 ArmU	4189404	4210404	located_end	4189404
	estimated_end	4210404		
CH322-81E18 3R	10065004	10086004	estimated_end	10065004
	located_end	10086004		
CH322-81E20 X	6090623	6111623	estimated_end	6090623
	located_end	6111623		
CH322-81F04 3L	15801684	15822684	estimated_end	15801684
	located_end	15822684		
CH322-81F08 X	1826565	1847565	estimated_end	1826565
	located_end	1847565		
CH322-81F10 2R	4722698	4743698	located_end	4722698
	estimated_end	4743698		
CH322-81F17 2L	7723035	7744035	located_end	7723035
	estimated_end	7744035		
CH322-81F20 ArmU	8830851	8851851	located_end	8830851
	estimated_end	8851851		
CH322-81G03 3L	22505061	22526061	estimated_end	22505061
	located_end	22526061		
CH322-81G04 2L	5495336	5516336	estimated_end	5495336
	located_end	5516336		
CH322-81H19 2L	12950313	12971313	estimated_end	12950313
	located_end	12971313		
CH322-81H21 X	12280641	12301641	estimated_end	12280641
	located_end	12301641		
CH322-81I03 2L	6299944	6320944	located_end	6299944
	estimated_end	6320944		

CH322-81I21 3RHet	538304	559304	estimated_end	538304
	located_end	559304		
CH322-81K03 3L	903308	924308	located_end	903308
	estimated_end	924308		
CH322-81K06 X	9950419	9971419	estimated_end	9950419
	located_end	9971419		
CH322-81K15 X	9875717	9896717	located_end	9875717
	estimated_end	9896717		
CH322-81K17 2R	8160606	8181606	located_end	8160606
	estimated_end	8181606		
CH322-81K18 2RHet	1555895	1576895	located_end	1555895
	estimated_end	1576895		
CH322-81K22 3L	22808785	22829785	estimated_end	22808785
	located_end	22829785		
CH322-81L01 2L	16802607	16823607	located_end	16802607
	estimated_end	16823607		
CH322-81L02 2R	20844441	20865441	estimated_end	20844441
	located_end	20865441		
CH322-81L04 X	20767541	20788541	estimated_end	20767541
	located_end	20788541		
CH322-81L15 ArmU	9129089	9150089	located_end	9129089
	estimated_end	9150089		
CH322-81L17 ArmU	8437236	8458236	estimated_end	8437236
	located_end	8458236		
CH322-81L23 3L	17083844	17104844	estimated_end	17083844
	located_end	17104844		
CH322-81M04 X	787894	808894	located_end	787894
	estimated_end	808894		
CH322-81M24 2L	13312128	13333128	located_end	13312128
	estimated_end	13333128		
CH322-81N02 2RHet	863527	884527	located_end	863527
	estimated_end	884527		
CH322-81N16 X	8826680	8847680	located_end	8826680
	estimated_end	8847680		
CH322-81N24 3L	17614690	17635690	estimated_end	17614690
	located_end	17635690		
CH322-81O01 3R	13481438	13502438	estimated_end	13481438
	located_end	13502438		
CH322-81O02 3L	994944	1015944	located_end	994944
	estimated_end	1015944		
CH322-81O03 3R	13481327	13502327	estimated_end	13481327
	located_end	13502327		
CH322-81O08 2R	7830823	7851823	estimated_end	7830823
	located_end	7851823		
CH322-81O24 2R	8933815	8954815	estimated_end	8933815
	located_end	8954815		
CH322-81P07 2L	19265998	19286998	located_end	19265998
	estimated_end	19286998		
CH322-81P08 2L	10015264	10036264	located_end	10015264
	estimated_end	10036264		
CH322-81P09 3L	3361421	3382421	located_end	3361421
	estimated_end	3382421		
CH322-81P17 2L	3335737	3356737	located_end	3335737
	estimated_end	3356737		

CH322-81P20 2R	8376089	8397089	located_end	8376089
	estimated_end	8397089		
CH322-81P22 3R	26454246	26475246	located_end	26454246
	estimated_end	26475246		
CH322-81P23 2R	13261585	13282585	located_end	13261585
	estimated_end	13282585		
CH322-81P24 3L	12966093	12987093	located_end	12966093
	estimated_end	12987093		
CH322-82A01 ArmU	113921	134921	estimated_end	113921
	located_end	134921		
CH322-82A02 3R	21086130	21107130	estimated_end	21086130
	located_end	21107130		
CH322-82A03 3L	17085730	17106730	estimated_end	17085730
	located_end	17106730		
CH322-82A04 3L	9922001	9943001	located_end	9922001
	estimated_end	9943001		
CH322-82A07 2R	10338988	10359988	located_end	10338988
	estimated_end	10359988		
CH322-82A08 3R	7102010	7123010	estimated_end	7102010
	located_end	7123010		
CH322-82A09 3L	17240780	17261780	estimated_end	17240780
	located_end	17261780		
CH322-82A14 X	14636202	14657202	located_end	14636202
	estimated_end	14657202		
CH322-82A15 3L	18623048	18644048	estimated_end	18623048
	located_end	18644048		
CH322-82A16 X	256866	277866	estimated_end	256866
	located_end	277866		
CH322-82A17 X	7574967	7595967	estimated_end	7574967
	located_end	7595967		
CH322-82A19 X	22216202	22237202	estimated_end	22216202
	located_end	22237202		
CH322-82A22 2R	9385251	9406251	located_end	9385251
	estimated_end	9406251		
CH322-82A23 3R	17140248	17161248	located_end	17140248
	estimated_end	17161248		
CH322-82A24 3L	9906457	9927457	located_end	9906457
	estimated_end	9927457		
CH322-82B03 3R	21964518	21985518	located_end	21964518
	estimated_end	21985518		
CH322-82B04 2L	8953586	8974586	estimated_end	8953586
	located_end	8974586		
CH322-82B06 3L	93420	114420	located_end	93420
	estimated_end	114420		
CH322-82B14 3L	2072244	2093244	located_end	2072244
	estimated_end	2093244		
CH322-82B15 ArmU	9668117	9689117	estimated_end	9668117
	located_end	9689117		
CH322-82B18 2L	2548642	2569642	located_end	2548642
	estimated_end	2569642		
CH322-82B19 2L	7539748	7560748	estimated_end	7539748
	located_end	7560748		
CH322-82B22 3L	4920671	4941671	located_end	4920671
	estimated_end	4941671		

CH322-82B23 2R	4179842	4200842	estimated_end	4179842
	located_end	4200842		
CH322-82B24 3L	17128056	17149056	located_end	17128056
	estimated_end	17149056		
CH322-82C05 X	19266952	19287952	estimated_end	19266952
	located_end	19287952		
CH322-82C10 2R	7572222	7593222	estimated_end	7572222
	located_end	7593222		
CH322-82C11 2L	12247906	12268906	estimated_end	12247906
	located_end	12268906		
CH322-82C23 2R	12624532	12645532	located_end	12624532
	estimated_end	12645532		
CH322-82C24 2R	5757246	5778246	located_end	5757246
	estimated_end	5778246		
CH322-82D01 2R	14603046	14624046	located_end	14603046
	estimated_end	14624046		
CH322-82D02 2L	13074071	13095071	estimated_end	13074071
	located_end	13095071		
CH322-82D07 3L	8816571	8837571	estimated_end	8816571
	located_end	8837571		
CH322-82D16 3R	7779222	7800222	located_end	7779222
	estimated_end	7800222		
CH322-82D21 2R	16261905	16282905	estimated_end	16261905
	located_end	16282905		
CH322-82D24 3L	6543544	6564544	estimated_end	6543544
	located_end	6564544		
CH322-82F01 3R	15542904	15563904	estimated_end	15542904
	located_end	15563904		
CH322-82F04 3R	10447491	10468491	located_end	10447491
	estimated_end	10468491		
CH322-82F11 3L	113433	134433	estimated_end	113433
	located_end	134433		
CH322-82F13 ArmU	7191914	7212914	located_end	7191914
	estimated_end	7212914		
CH322-82F21 X	6744041	6765041	located_end	6744041
	estimated_end	6765041		
CH322-82G01 2R	17302734	17323734	located_end	17302734
	estimated_end	17323734		
CH322-82G08 X	8077129	8098129	estimated_end	8077129
	located_end	8098129		
CH322-82G09 X	7271863	7292863	located_end	7271863
	estimated_end	7292863		
CH322-82G13 X	18657874	18678874	located_end	18657874
	estimated_end	18678874		
CH322-82G20 3R	10054263	10075263	located_end	10054263
	estimated_end	10075263		
CH322-82H04 3L	16292388	16313388	located_end	16292388
	estimated_end	16313388		
CH322-82H09 2RHet	615357	636357	located_end	615357
	estimated_end	636357		
CH322-82H15 3L	2453393	2474393	estimated_end	2453393
	located_end	2474393		
CH322-82I06 2R	1519050	1540050	estimated_end	1519050
	located_end	1540050		

CH322-82I24 3L	10152206	10173206	estimated_end	10152206
	located_end	10173206		
CH322-82J08 2R	14444530	14465530	located_end	14444530
	estimated_end	14465530		
CH322-82J16 3R	22891304	22912304	estimated_end	22891304
	located_end	22912304		
CH322-82J19 X	2985649	3006649	located_end	2985649
	estimated_end	3006649		
CH322-82J23 2L	11690402	11711402	estimated_end	11690402
	located_end	11711402		
CH322-82K08 2L	12888443	12909443	estimated_end	12888443
	located_end	12909443		
CH322-82K23 3R	22457520	22478520	estimated_end	22457520
	located_end	22478520		
CH322-82L15 3L	6886057	6907057	estimated_end	6886057
	located_end	6907057		
CH322-82L16 3R	1234991	1255991	located_end	1234991
	estimated_end	1255991		
CH322-82L20 3R	8322251	8343251	estimated_end	8322251
	located_end	8343251		
CH322-82L22 X	16579909	16600909	estimated_end	16579909
	located_end	16600909		
CH322-82L24 4	646419	667419	located_end	646419
	estimated_end	667419		
CH322-82M10 3L	1033073	1054073	located_end	1033073
	estimated_end	1054073		
CH322-82M22 3L	14244051	14265051	located_end	14244051
	estimated_end	14265051		
CH322-82N01 3R	13813276	13834276	located_end	13813276
	estimated_end	13834276		
CH322-82N02 2L	8810560	8831560	estimated_end	8810560
	located_end	8831560		
CH322-82N06 2R	11759555	11780555	located_end	11759555
	estimated_end	11780555		
CH322-82N08 4	292831	313831	located_end	292831
	estimated_end	313831		
CH322-82N09 3R	21331505	21352505	located_end	21331505
	estimated_end	21352505		
CH322-82N13 3R	11541855	11562855	located_end	11541855
	estimated_end	11562855		
CH322-82N22 2R	1627751	1648751	located_end	1627751
	estimated_end	1648751		
CH322-82N24 2R	3042989	3063989	located_end	3042989
	estimated_end	3063989		
CH322-82O01 2L	22645426	22666426	located_end	22645426
	estimated_end	22666426		
CH322-82O03 X	5806157	5827157	estimated_end	5806157
	located_end	5827157		
CH322-82O22 3L	18340386	18361386	estimated_end	18340386
	located_end	18361386		
CH322-82O23 3L	19658173	19679173	estimated_end	19658173
	located_end	19679173		
CH322-82P03 3L	14515146	14536146	located_end	14515146
	estimated_end	14536146		

CH322-82P05 3L	2385816	2406816	located_end	2385816
	estimated_end	2406816		
CH322-82P07 3L	8101298	8122298	estimated_end	8101298
	located_end	8122298		
CH322-82P10 2R	3216047	3237047	estimated_end	3216047
	located_end	3237047		
CH322-82P12 3L	21877389	21898389	estimated_end	21877389
	located_end	21898389		
CH322-82P13 3R	12368405	12389405	estimated_end	12368405
	located_end	12389405		
CH322-82P15 ArmU	1090587	1111587	located_end	1090587
	estimated_end	1111587		
CH322-82P19 3L	4404839	4425839	estimated_end	4404839
	located_end	4425839		
CH322-83A01 2R	4389281	4410281	located_end	4389281
	estimated_end	4410281		
CH322-83A05 3L	24031879	24052879	located_end	24031879
	estimated_end	24052879		
CH322-83A06 3L	14678498	14699498	located_end	14678498
	estimated_end	14699498		
CH322-83A11 3RHet	437274	458274	located_end	437274
	estimated_end	458274		
CH322-83A19 2R	3261374	3282374	located_end	3261374
	estimated_end	3282374		
CH322-83A21 3R	9707225	9728225	located_end	9707225
	estimated_end	9728225		
CH322-83B02 3R	870838	891838	located_end	870838
	estimated_end	891838		
CH322-83B03 2L	5808216	5829216	located_end	5808216
	estimated_end	5829216		
CH322-83B06 2RHet	26821	47821	located_end	26821
	estimated_end	47821		
CH322-83B07 2R	2646626	2667626	estimated_end	2646626
	located_end	2667626		
CH322-83B08 ArmU	2814108	2835108	estimated_end	2814108
	located_end	2835108		
CH322-83B17 2L	12768188	12789188	located_end	12768188
	estimated_end	12789188		
CH322-83B19 3L	20631807	20652807	estimated_end	20631807
	located_end	20652807		
CH322-83B23 3R	3966286	3987286	located_end	3966286
	estimated_end	3987286		
CH322-83B24 ArmU	984705	1005705	located_end	984705
	estimated_end	1005705		
CH322-83C05 2R	6910794	6931794	estimated_end	6910794
	located_end	6931794		
CH322-83C07 3RHet	2207163	2228163	located_end	2207163
	estimated_end	2228163		
CH322-83C10 2L	5041405	5062405	estimated_end	5041405
	located_end	5062405		
CH322-83C14 X	15535842	15556842	estimated_end	15535842
	located_end	15556842		
CH322-83C22 2R	14863740	14884740	estimated_end	14863740
	located_end	14884740		

CH322-83C23 3LHet	1188253	1209253	located_end	1188253
	estimated_end	1209253		
CH322-83C24 2R	20363208	20384208	located_end	20363208
	estimated_end	20384208		
CH322-83D02 3L	1078099	1099099	estimated_end	1078099
	located_end	1099099		
CH322-83D16 3R	1001429	1022429	located_end	1001429
	estimated_end	1022429		
CH322-83D17 2R	17634123	17655123	estimated_end	17634123
	located_end	17655123		
CH322-83D20 2R	12564735	12585735	estimated_end	12564735
	located_end	12585735		
CH322-83D24 2L	7476532	7497532	located_end	7476532
	estimated_end	7497532		
CH322-83E01 3L	8592002	8613002	estimated_end	8592002
	located_end	8613002		
CH322-83E09 3R	10914496	10935496	located_end	10914496
	estimated_end	10935496		
CH322-83E15 X	10157014	10178014	located_end	10157014
	estimated_end	10178014		
CH322-83E19 2L	15298340	15319340	located_end	15298340
	estimated_end	15319340		
CH322-83E24 2R	19446333	19467333	located_end	19446333
	estimated_end	19467333		
CH322-83F02 3L	20745005	20766005	estimated_end	20745005
	located_end	20766005		
CH322-83F09 3L	15861202	15882202	estimated_end	15861202
	located_end	15882202		
CH322-83F11 4	1277088	1298088	located_end	1277088
	estimated_end	1298088		
CH322-83F19 3R	25506943	25527943	located_end	25506943
	estimated_end	25527943		
CH322-83F20 3R	8587239	8608239	located_end	8587239
	estimated_end	8608239		
CH322-83F24 3R	26246743	26267743	located_end	26246743
	estimated_end	26267743		
CH322-83G01 3L	6609753	6630753	located_end	6609753
	estimated_end	6630753		
CH322-83G03 3R	8168769	8189769	located_end	8168769
	estimated_end	8189769		
CH322-83G24 3L	6499956	6520956	located_end	6499956
	estimated_end	6520956		
CH322-83I02 2R	6860137	6881137	located_end	6860137
	estimated_end	6881137		
CH322-83I10 3R	23669404	23690404	located_end	23669404
	estimated_end	23690404		
CH322-83I12 X	15939964	15960964	estimated_end	15939964
	located_end	15960964		
CH322-83I20 3R	7752663	7773663	located_end	7752663
	estimated_end	7773663		
CH322-83I21 2L	13505776	13526776	located_end	13505776
	estimated_end	13526776		
CH322-83I24 2L	2289767	2310767	estimated_end	2289767
	located_end	2310767		

CH322-83J07 X	9433481	9454481	estimated_end	9433481
	located_end	9454481		
CH322-83K11 2L	12214629	12235629	estimated_end	12214629
	located_end	12235629		
CH322-83K23 2L	14736744	14757744	estimated_end	14736744
	located_end	14757744		
CH322-83L17 3R	27158152	27179152	estimated_end	27158152
	located_end	27179152		
CH322-83L21 X	21024450	21045450	estimated_end	21024450
	located_end	21045450		
CH322-83M01 2L	1614282	1635282	estimated_end	1614282
	located_end	1635282		
CH322-83M08 3R	26129170	26150170	located_end	26129170
	estimated_end	26150170		
CH322-83M09 3L	4452699	4473699	estimated_end	4452699
	located_end	4473699		
CH322-83M24 3R	17808106	17829106	located_end	17808106
	estimated_end	17829106		
CH322-83N03 2L	6257325	6278325	located_end	6257325
	estimated_end	6278325		
CH322-83N10 3L	22613117	22634117	estimated_end	22613117
	located_end	22634117		
CH322-83N14 3R	5110632	5131632	located_end	5110632
	estimated_end	5131632		
CH322-83N18 3R	36217	57217	estimated_end	36217
	located_end	57217		
CH322-83N23 3R	13068871	13089871	located_end	13068871
	estimated_end	13089871		
CH322-83O02 3L	13078248	13099248	located_end	13078248
	estimated_end	13099248		
CH322-83O08 3LHet	1380598	1401598	estimated_end	1380598
	located_end	1401598		
CH322-83O15 2L	13466130	13487130	estimated_end	13466130
	located_end	13487130		
CH322-83O20 3R	20599806	20620806	located_end	20599806
	estimated_end	20620806		
CH322-83O23 2L	19119323	19140323	estimated_end	19119323
	located_end	19140323		
CH322-83P04 3R	16346988	16367988	located_end	16346988
	estimated_end	16367988		
CH322-83P06 3L	7587276	7608276	located_end	7587276
	estimated_end	7608276		
CH322-83P08 2R	16262740	16283740	estimated_end	16262740
	located_end	16283740		
CH322-83P09 2R	7083188	7104188	located_end	7083188
	estimated_end	7104188		
CH322-83P10 3L	20559140	20580140	estimated_end	20559140
	located_end	20580140		
CH322-83P17 X	10318776	10339776	estimated_end	10318776
	located_end	10339776		
CH322-83P20 3R	486474	507474	located_end	486474
	estimated_end	507474		
CH322-83P21 3L	20154105	20175105	located_end	20154105
	estimated_end	20175105		

CH322-83P23 2L	16979800	17000800	located_end	16979800
estimated_end	17000800			
CH322-84A01 2R	18498650	18519650	located_end	18498650
estimated_end	18519650			
CH322-84A02 X	11035822	11056822	located_end	11035822
estimated_end	11056822			
CH322-84A03 3R	20801368	20822368	located_end	20801368
estimated_end	20822368			
CH322-84A04 3L	2867797	2888797	estimated_end	2867797
located_end	2888797			
CH322-84A05 3L	12280834	12301834	estimated_end	12280834
located_end	12301834			
CH322-84A06 3R	16836098	16857098	located_end	16836098
estimated_end	16857098			
CH322-84A07 3R	20446525	20467525	estimated_end	20446525
located_end	20467525			
CH322-84A08 2R	13864011	13885011	estimated_end	13864011
located_end	13885011			
CH322-84A11 2R	16035242	16056242	estimated_end	16035242
located_end	16056242			
CH322-84A12 2R	1955164	1976164	located_end	1955164
estimated_end	1976164			
CH322-84A14 2L	4911616	4932616	located_end	4911616
estimated_end	4932616			
CH322-84A15 3R	22019688	22040688	located_end	22019688
estimated_end	22040688			
CH322-84A16 3L	2433578	2454578	located_end	2433578
estimated_end	2454578			
CH322-84A17 2R	8660355	8681355	located_end	8660355
estimated_end	8681355			
CH322-84A19 3L	13934777	13955777	located_end	13934777
estimated_end	13955777			
CH322-84A20 3L	22886610	22907610	estimated_end	22886610
located_end	22907610			
CH322-84A21 3L	13577125	13598125	estimated_end	13577125
located_end	13598125			
CH322-84A22 3R	12368524	12389524	located_end	12368524
estimated_end	12389524			
CH322-84A23 3R	11530787	11551787	located_end	11530787
estimated_end	11551787			
CH322-84B01 ArmU	8886661	8907661	located_end	8886661
estimated_end	8907661			
CH322-84B02 2L	13757955	13778955	located_end	13757955
estimated_end	13778955			
CH322-84B03 2R	5160835	5181835	estimated_end	5160835
located_end	5181835			
CH322-84B04 2L	8358800	8379800	located_end	8358800
estimated_end	8379800			
CH322-84B05 3L	21622400	21643400	located_end	21622400
estimated_end	21643400			
CH322-84B06 3R	14495177	14516177	estimated_end	14495177
located_end	14516177			
CH322-84B07 3R	7103853	7124853	located_end	7103853
estimated_end	7124853			

CH322-84B09 3L	14466243	14487243	estimated_end	14466243
	located_end	14487243		
CH322-84B11 2R	19293365	19314365	estimated_end	19293365
	located_end	19314365		
CH322-84B12 4	990873	1011873	located_end	990873
	estimated_end	1011873		
CH322-84B13 3L	6175741	6196741	located_end	6175741
	estimated_end	6196741		
CH322-84B15 2L	20982438	21003438	located_end	20982438
	estimated_end	21003438		
CH322-84B16 4	1223144	1244144	located_end	1223144
	estimated_end	1244144		
CH322-84B17 2L	11689816	11710816	located_end	11689816
	estimated_end	11710816		
CH322-84B18 2R	2698180	2719180	estimated_end	2698180
	located_end	2719180		
CH322-84B19 3R	17381600	17402600	estimated_end	17381600
	located_end	17402600		
CH322-84B20 3L	2869838	2890838	located_end	2869838
	estimated_end	2890838		
CH322-84B21 3R	17124887	17145887	estimated_end	17124887
	located_end	17145887		
CH322-84B22 2L	7651142	7672142	estimated_end	7651142
	located_end	7672142		
CH322-84B23 2R	4345380	4366380	estimated_end	4345380
	located_end	4366380		
CH322-84B24 2L	4852663	4873663	located_end	4852663
	estimated_end	4873663		
CH322-84C01 3L	9430227	9451227	estimated_end	9430227
	located_end	9451227		
CH322-84C02 3R	3828139	3849139	estimated_end	3828139
	located_end	3849139		
CH322-84C03 2L	8158600	8179600	located_end	8158600
	estimated_end	8179600		
CH322-84C04 2R	15871040	15892040	estimated_end	15871040
	located_end	15892040		
CH322-84C06 2R	17104496	17125496	located_end	17104496
	estimated_end	17125496		
CH322-84C08 3R	1060427	1081427	located_end	1060427
	estimated_end	1081427		
CH322-84C09 3L	16160614	16181614	located_end	16160614
	estimated_end	16181614		
CH322-84C10 2L	12756327	12777327	located_end	12756327
	estimated_end	12777327		
CH322-84C11 2R	1697000	1718000	estimated_end	1697000
	located_end	1718000		
CH322-84C12 3R	11281742	11302742	estimated_end	11281742
	located_end	11302742		
CH322-84C13 2L	12038920	12059920	located_end	12038920
	estimated_end	12059920		
CH322-84C14 2L	21995466	22016466	estimated_end	21995466
	located_end	22016466		
CH322-84C15 3L	17691886	17712886	located_end	17691886
	estimated_end	17712886		

CH322-84C16 X	11274861	11295861	estimated_end	11274861
	located_end	11295861		
CH322-84C18 3L	16189530	16210530	located_end	16189530
	estimated_end	16210530		
CH322-84C19 2L	14173877	14194877	located_end	14173877
	estimated_end	14194877		
CH322-84C20 3L	6347773	6368773	estimated_end	6347773
	located_end	6368773		
CH322-84C21 3L	22683419	22704419	located_end	22683419
	estimated_end	22704419		
CH322-84D02 3R	18552655	18573655	estimated_end	18552655
	located_end	18573655		
CH322-84D03 3L	12523756	12544756	estimated_end	12523756
	located_end	12544756		
CH322-84D04 2L	1138802	1159802	located_end	1138802
	estimated_end	1159802		
CH322-84D05 2R	11278811	11299811	located_end	11278811
	estimated_end	11299811		
CH322-84D08 2L	1151721	1172721	estimated_end	1151721
	located_end	1172721		
CH322-84D09 2L	15630783	15651783	located_end	15630783
	estimated_end	15651783		
CH322-84D10 3R	19603086	19624086	estimated_end	19603086
	located_end	19624086		
CH322-84D11 2R	4398768	4419768	estimated_end	4398768
	located_end	4419768		
CH322-84D12 3R	2673959	2694959	located_end	2673959
	estimated_end	2694959		
CH322-84D13 2R	16075052	16096052	estimated_end	16075052
	located_end	16096052		
CH322-84D14 2L	6547596	6568596	estimated_end	6547596
	located_end	6568596		
CH322-84D15 2L	15171739	15192739	estimated_end	15171739
	located_end	15192739		
CH322-84D16 ArmU	7319982	7340982	estimated_end	7319982
	located_end	7340982		
CH322-84D17 3R	4191595	4212595	estimated_end	4191595
	located_end	4212595		
CH322-84D18 2R	8462081	8483081	estimated_end	8462081
	located_end	8483081		
CH322-84D19 2L	9116353	9137353	located_end	9116353
	estimated_end	9137353		
CH322-84D21 3L	4515895	4536895	located_end	4515895
	estimated_end	4536895		
CH322-84D22 3R	15883064	15904064	estimated_end	15883064
	located_end	15904064		
CH322-84D23 3L	5940029	5961029	located_end	5940029
	estimated_end	5961029		
CH322-84D24 3R	16962862	16983862	located_end	16962862
	estimated_end	16983862		
CH322-84E02 3R	27306463	27327463	located_end	27306463
	estimated_end	27327463		
CH322-84E03 X	4631029	4652029	located_end	4631029
	estimated_end	4652029		

CH322-84E05 2L	19749985	19770985	located_end	19749985
	estimated_end	19770985		
CH322-84E06 2R	3777433	3798433	located_end	3777433
	estimated_end	3798433		
CH322-84E07 3L	15753154	15774154	estimated_end	15753154
	located_end	15774154		
CH322-84E08 3R	21842384	21863384	located_end	21842384
	estimated_end	21863384		
CH322-84E09 3LHet	234436	255436	located_end	234436
	estimated_end	255436		
CH322-84E10 3L	20229657	20250657	located_end	20229657
	estimated_end	20250657		
CH322-84E11 2R	2604603	2625603	estimated_end	2604603
	located_end	2625603		
CH322-84E12 3L	7038769	7059769	estimated_end	7038769
	located_end	7059769		
CH322-84E16 3R	21760613	21781613	estimated_end	21760613
	located_end	21781613		
CH322-84E17 2R	2752183	2773183	located_end	2752183
	estimated_end	2773183		
CH322-84E18 X	4542933	4563933	located_end	4542933
	estimated_end	4563933		
CH322-84E20 3R	27848351	27869351	estimated_end	27848351
	located_end	27869351		
CH322-84E21 3R	26907520	26928520	located_end	26907520
	estimated_end	26928520		
CH322-84E22 3R	25587785	25608785	estimated_end	25587785
	located_end	25608785		
CH322-84E23 2R	12259343	12280343	located_end	12259343
	estimated_end	12280343		
CH322-84E24 3R	7780809	7801809	estimated_end	7780809
	located_end	7801809		
CH322-84F01 3R	15224470	15245470	estimated_end	15224470
	located_end	15245470		
CH322-84F02 2R	15658690	15679690	located_end	15658690
	estimated_end	15679690		
CH322-84F03 3R	13043537	13064537	estimated_end	13043537
	located_end	13064537		
CH322-84F05 3L	12420261	12441261	located_end	12420261
	estimated_end	12441261		
CH322-84F08 ArmU	7840224	7861224	estimated_end	7840224
	located_end	7861224		
CH322-84F10 3R	2825370	2846370	located_end	2825370
	estimated_end	2846370		
CH322-84F11 3R	27386291	27407291	estimated_end	27386291
	located_end	27407291		
CH322-84F12 3R	19431767	19452767	estimated_end	19431767
	located_end	19452767		
CH322-84F13 2L	14026783	14047783	estimated_end	14026783
	located_end	14047783		
CH322-84F14 2L	14266797	14287797	estimated_end	14266797
	located_end	14287797		
CH322-84F15 X	14500577	14521577	estimated_end	14500577
	located_end	14521577		

CH322-84F16 X	8812658	8833658	located_end	8812658
	estimated_end	8833658		
CH322-84F17 X	20759255	20780255	estimated_end	20759255
	located_end	20780255		
CH322-84F18 2R	4280530	4301530	located_end	4280530
	estimated_end	4301530		
CH322-84F19 3R	2793425	2814425	located_end	2793425
	estimated_end	2814425		
CH322-84F21 X	19632959	19653959	located_end	19632959
	estimated_end	19653959		
CH322-84F22 3R	16688138	16709138	located_end	16688138
	estimated_end	16709138		
CH322-84F24 3L	17217031	17238031	located_end	17217031
	estimated_end	17238031		
CH322-84G01 2R	1149509	1170509	estimated_end	1149509
	located_end	1170509		
CH322-84G03 2L	6255580	6276580	estimated_end	6255580
	located_end	6276580		
CH322-84G04 3R	3629147	3650147	located_end	3629147
	estimated_end	3650147		
CH322-84G05 X	300406	321406	estimated_end	300406
	located_end	321406		
CH322-84G06 2R	16917057	16938057	estimated_end	16917057
	located_end	16938057		
CH322-84G07 2R	4685086	4706086	estimated_end	4685086
	located_end	4706086		
CH322-84G08 2L	5924735	5945735	located_end	5924735
	estimated_end	5945735		
CH322-84G11 3L	6765715	6786715	located_end	6765715
	estimated_end	6786715		
CH322-84G12 3R	11037451	11058451	located_end	11037451
	estimated_end	11058451		
CH322-84G13 X	18620950	18641950	estimated_end	18620950
	located_end	18641950		
CH322-84G14 3L	14480277	14501277	estimated_end	14480277
	located_end	14501277		
CH322-84G15 3R	14766875	14787875	located_end	14766875
	estimated_end	14787875		
CH322-84G16 X	7789009	7810009	estimated_end	7789009
	located_end	7810009		
CH322-84G17 2L	12487351	12508351	located_end	12487351
	estimated_end	12508351		
CH322-84G18 X	10491819	10512819	located_end	10491819
	estimated_end	10512819		
CH322-84G20 X	8986941	9007941	located_end	8986941
	estimated_end	9007941		
CH322-84G21 3L	3122539	3143539	estimated_end	3122539
	located_end	3143539		
CH322-84G22 2L	16573830	16594830	estimated_end	16573830
	located_end	16594830		
CH322-84G24 3R	15777507	15798507	estimated_end	15777507
	located_end	15798507		
CH322-84H01 3L	14375536	14396536	located_end	14375536
	estimated_end	14396536		

CH322-84H02 X	11086218	11107218	located_end	11086218
	estimated_end	11107218		
CH322-84H03 3R	24557352	24578352	located_end	24557352
	estimated_end	24578352		
CH322-84H04 2L	18256260	18277260	located_end	18256260
	estimated_end	18277260		
CH322-84H05 3R	6095521	6116521	located_end	6095521
	estimated_end	6116521		
CH322-84H06 3R	20931782	20952782	estimated_end	20931782
	located_end	20952782		
CH322-84H07 3R	24922338	24943338	estimated_end	24922338
	located_end	24943338		
CH322-84H09 X	10410513	10431513	estimated_end	10410513
	located_end	10431513		
CH322-84H11 2R	16138830	16159830	located_end	16138830
	estimated_end	16159830		
CH322-84H12 2L	1161773	1182773	estimated_end	1161773
	located_end	1182773		
CH322-84H13 2L	6915380	6936380	located_end	6915380
	estimated_end	6936380		
CH322-84H14 3R	16370088	16391088	estimated_end	16370088
	located_end	16391088		
CH322-84H15 3R	16185883	16206883	located_end	16185883
	estimated_end	16206883		
CH322-84H16 2R	5702270	5723270	estimated_end	5702270
	located_end	5723270		
CH322-84H17 X	8437783	8458783	estimated_end	8437783
	located_end	8458783		
CH322-84H18 2R	10190679	10211679	located_end	10190679
	estimated_end	10211679		
CH322-84H19 2R	18389780	18410780	located_end	18389780
	estimated_end	18410780		
CH322-84H20 X	618247	639247	estimated_end	618247
	located_end	639247		
CH322-84H22 3L	4626924	4647924	estimated_end	4626924
	located_end	4647924		
CH322-84H24 3LHet	148785	169785	estimated_end	148785
	located_end	169785		
CH322-84I01 3R	6906363	6927363	estimated_end	6906363
	located_end	6927363		
CH322-84I02 2R	12018267	12039267	estimated_end	12018267
	located_end	12039267		
CH322-84I06 X	6094470	6115470	located_end	6094470
	estimated_end	6115470		
CH322-84I08 2R	4257383	4278383	located_end	4257383
	estimated_end	4278383		
CH322-84I10 2R	9530429	9551429	located_end	9530429
	estimated_end	9551429		
CH322-84I11 3L	13608845	13629845	estimated_end	13608845
	located_end	13629845		
CH322-84I12 2L	9870399	9891399	estimated_end	9870399
	located_end	9891399		
CH322-84I13 X	8292953	8313953	located_end	8292953
	estimated_end	8313953		

CH322-84I14 3R	1016061	1037061	estimated_end	1016061
	located_end	1037061		
CH322-84I15 X	13455166	13476166	estimated_end	13455166
	located_end	13476166		
CH322-84I17 X	3749668	3770668	estimated_end	3749668
	located_end	3770668		
CH322-84I18 X	13862343	13883343	estimated_end	13862343
	located_end	13883343		
CH322-84I19 3R	15806979	15827979	estimated_end	15806979
	located_end	15827979		
CH322-84I20 3R	18762506	18783506	located_end	18762506
	estimated_end	18783506		
CH322-84I21 3R	16339528	16360528	estimated_end	16339528
	located_end	16360528		
CH322-84I22 3R	735359	756359	located_end	735359
	estimated_end	756359		
CH322-84I24 3L	6692339	6713339	estimated_end	6692339
	located_end	6713339		
CH322-84J01 3L	1893851	1914851	located_end	1893851
	estimated_end	1914851		
CH322-84J02 3R	17367351	17388351	estimated_end	17367351
	located_end	17388351		
CH322-84J04 2RHet	410050	431050	located_end	410050
	estimated_end	431050		
CH322-84J05 X	11706797	11727797	estimated_end	11706797
	located_end	11727797		
CH322-84J06 ArmU	6714589	6735589	estimated_end	6714589
	located_end	6735589		
CH322-84J07 2L	10038526	10059526	located_end	10038526
	estimated_end	10059526		
CH322-84J08 3L	11439666	11460666	located_end	11439666
	estimated_end	11460666		
CH322-84J09 3L	9922151	9943151	located_end	9922151
	estimated_end	9943151		
CH322-84J10 2L	15073134	15094134	located_end	15073134
	estimated_end	15094134		
CH322-84J11 X	14344809	14365809	estimated_end	14344809
	located_end	14365809		
CH322-84J12 3L	14013518	14034518	estimated_end	14013518
	located_end	14034518		
CH322-84J16 3L	24133979	24154979	estimated_end	24133979
	located_end	24154979		
CH322-84J18 3R	15913149	15934149	estimated_end	15913149
	located_end	15934149		
CH322-84J19 2L	10153478	10174478	located_end	10153478
	estimated_end	10174478		
CH322-84J21 ArmU	3784003	3805003	located_end	3784003
	estimated_end	3805003		
CH322-84J22 3R	10295138	10316138	estimated_end	10295138
	located_end	10316138		
CH322-84J23 2R	11046209	11067209	located_end	11046209
	estimated_end	11067209		
CH322-84K01 3L	4591310	4612310	estimated_end	4591310
	located_end	4612310		

CH322-84K02 2R	11758845	11779845	located_end	11758845
	estimated_end	11779845		
CH322-84K04 X	4554000	4575000	located_end	4554000
	estimated_end	4575000		
CH322-84K05 2R	8978078	8999078	located_end	8978078
	estimated_end	8999078		
CH322-84K06 2L	10703796	10724796	located_end	10703796
	estimated_end	10724796		
CH322-84K07 3L	12615657	12636657	estimated_end	12615657
	located_end	12636657		
CH322-84K08 3R	8987955	9008955	located_end	8987955
	estimated_end	9008955		
CH322-84K10 2L	12304451	12325451	located_end	12304451
	estimated_end	12325451		
CH322-84K11 3L	16022652	16043652	located_end	16022652
	estimated_end	16043652		
CH322-84K12 3R	17786496	17807496	located_end	17786496
	estimated_end	17807496		
CH322-84K13 X	22019277	22040277	located_end	22019277
	estimated_end	22040277		
CH322-84K14 2L	10819264	10840264	estimated_end	10819264
	located_end	10840264		
CH322-84K15 3L	13897777	13918777	estimated_end	13897777
	located_end	13918777		
CH322-84K16 2R	18843656	18864656	estimated_end	18843656
	located_end	18864656		
CH322-84K17 2R	1940602	1961602	located_end	1940602
	estimated_end	1961602		
CH322-84K18 YHet	118629	139629	located_end	118629
	estimated_end	139629		
CH322-84K19 X	6289095	6310095	estimated_end	6289095
	located_end	6310095		
CH322-84K20 2L	10489574	10510574	located_end	10489574
	estimated_end	10510574		
CH322-84K21 3L	782980	803980	estimated_end	782980
	located_end	803980		
CH322-84K22 3L	7943410	7964410	estimated_end	7943410
	located_end	7964410		
CH322-84K24 2L	49113	70113	estimated_end	49113
	located_end	70113	located_end	70113
CH322-84L01 X	8111488	8132488	located_end	8111488
	estimated_end	8132488		
CH322-84L02 3R	18037696	18058696	located_end	18037696
	estimated_end	18058696		
CH322-84L03 2L	16850980	16871980	estimated_end	16850980
	located_end	16871980		
CH322-84L04 2R	20507737	20528737	located_end	20507737
	estimated_end	20528737		
CH322-84L05 3L	2997660	3018660	located_end	2997660
	estimated_end	3018660		
CH322-84L07 X	14311510	14332510	estimated_end	14311510
	located_end	14332510		
CH322-84L08 3L	13674925	13695925	estimated_end	13674925
	located_end	13695925		

CH322-84L10 2R	11284651	11305651	located_end 11284651
estimated_end	11305651		
CH322-84L11 3L	2368854	2389854	located_end 2368854
estimated_end	2389854		
CH322-84L12 2R	9639998	9660998	estimated_end 9639998
located_end	9660998		
CH322-84L13 X	22135256	22156256	located_end 22135256
estimated_end	22156256		
CH322-84L14 3R	22778063	22799063	located_end 22778063
estimated_end	22799063		
CH322-84L16 3R	11757618	11778618	estimated_end 11757618
located_end	11778618		
CH322-84L17 3R	26035698	26056698	located_end 26035698
estimated_end	26056698		
CH322-84L20 X	13432505	13453505	located_end 13432505
estimated_end	13453505		
CH322-84L21 3R	21120343	21141343	located_end 21120343
estimated_end	21141343		
CH322-84L22 2R	9135877	9156877	located_end 9135877
estimated_end	9156877		
CH322-84L24 2R	19768545	19789545	estimated_end 19768545
located_end	19789545		
CH322-84M02 3L	19059831	19080831	located_end 19059831
estimated_end	19080831		
CH322-84M03 X	14754323	14775323	located_end 14754323
estimated_end	14775323		
CH322-84M04 3R	15549205	15570205	estimated_end 15549205
located_end	15570205		
CH322-84M05 3L	22191453	22212453	estimated_end 22191453
located_end	22212453		
CH322-84M06 X	12049818	12070818	estimated_end 12049818
located_end	12070818		
CH322-84M07 3R	9138820	9159820	estimated_end 9138820
located_end	9159820		
CH322-84M08 2R	229585	250585	estimated_end 229585
located_end	250585		
CH322-84M09 3R	17291077	17312077	estimated_end 17291077
located_end	17312077		
CH322-84M10 3R	25899176	25920176	located_end 25899176
estimated_end	25920176		
CH322-84M11 3R	20865179	20886179	estimated_end 20865179
located_end	20886179		
CH322-84M12 2R	9193345	9214345	located_end 9193345
estimated_end	9214345		
CH322-84M13 2R	10603177	10624177	located_end 10603177
estimated_end	10624177		
CH322-84M14 2L	298363	319363	estimated_end 298363
located_end	319363		
CH322-84M15 3R	664307	685307	located_end 664307
estimated_end	685307		
CH322-84M16 3L	15246020	15267020	estimated_end 15246020
located_end	15267020		
CH322-84M17 2L	13259652	13280652	located_end 13259652
estimated_end	13280652		

CH322-84M18 2L	7162946	7183946	estimated_end	7162946
	located_end	7183946		
CH322-84M19 2L	14704282	14725282	located_end	14704282
	estimated_end	14725282		
CH322-84M20 2L	5734515	5755515	estimated_end	5734515
	located_end	5755515		
CH322-84M23 2RHet	1449384	1470384	estimated_end	1449384
	located_end	1470384		
CH322-84N01 3L	13931205	13952205	located_end	13931205
	estimated_end	13952205		
CH322-84N02 2L	16570534	16591534	located_end	16570534
	estimated_end	16591534		
CH322-84N03 2R	1344769	1365769	located_end	1344769
	estimated_end	1365769		
CH322-84N04 2R	12240779	12261779	estimated_end	12240779
	located_end	12261779		
CH322-84N05 3L	14904821	14925821	located_end	14904821
	estimated_end	14925821		
CH322-84N06 X	20851072	20872072	located_end	20851072
	estimated_end	20872072		
CH322-84N07 2L	11456034	11477034	estimated_end	11456034
	located_end	11477034		
CH322-84N08 2R	8592112	8613112	located_end	8592112
	estimated_end	8613112		
CH322-84N09 X	3356	24356	estimated_end	3356
			located_end	24356
CH322-84N10 2L	1011195	1032195	located_end	1011195
	estimated_end	1032195		
CH322-84N11 2L	14828514	14849514	located_end	14828514
	estimated_end	14849514		
CH322-84N12 3R	26071883	26092883	estimated_end	26071883
	located_end	26092883		
CH322-84N13 X	21437369	21458369	located_end	21437369
	estimated_end	21458369		
CH322-84N14 2R	17340371	17361371	located_end	17340371
	estimated_end	17361371		
CH322-84N16 2L	17199011	17220011	estimated_end	17199011
	located_end	17220011		
CH322-84N18 2R	8694799	8715799	estimated_end	8694799
	located_end	8715799		
CH322-84N19 X	4837467	4858467	located_end	4837467
	estimated_end	4858467		
CH322-84N20 3R	251712	272712	estimated_end	251712
	located_end	272712		
CH322-84N22 2L	10277627	10298627	estimated_end	10277627
	located_end	10298627		
CH322-84N24 4	853231	874231	estimated_end	853231
	located_end	874231		
CH322-84O01 2L	4313022	4334022	estimated_end	4313022
	located_end	4334022		
CH322-84O02 3R	26096842	26117842	located_end	26096842
	estimated_end	26117842		
CH322-84O04 3R	24046128	24067128	located_end	24046128
	estimated_end	24067128		

CH322-84005 2R	2995342	3016342	estimated_end	2995342
	located_end	3016342		
CH322-84007 3R	23861617	23882617	estimated_end	23861617
	located_end	23882617		
CH322-84008 2L	4991926	5012926	estimated_end	4991926
	located_end	5012926		
CH322-84009 X	11898578	11919578	estimated_end	11898578
	located_end	11919578		
CH322-84010 2L	11194478	11215478	located_end	11194478
	estimated_end	11215478		
CH322-84012 2R	5110228	5131228	estimated_end	5110228
	located_end	5131228		
CH322-84015 3L	9166466	9187466	estimated_end	9166466
	located_end	9187466		
CH322-84016 2L	8181219	8202219	located_end	8181219
	estimated_end	8202219		
CH322-84017 2L	18626298	18647298	located_end	18626298
	estimated_end	18647298		
CH322-84018 X	20607843	20628843	estimated_end	20607843
	located_end	20628843		
CH322-84020 3R	5592270	5613270	located_end	5592270
	estimated_end	5613270		
CH322-84021 2L	20514876	20535876	located_end	20514876
	estimated_end	20535876		
CH322-84022 2L	300213	321213	estimated_end	300213
	located_end	321213		
CH322-84023 2L	3448543	3469543	located_end	3448543
	estimated_end	3469543		
CH322-84P01 2L	3720339	3741339	located_end	3720339
	estimated_end	3741339		
CH322-84P02 3L	12590816	12611816	located_end	12590816
	estimated_end	12611816		
CH322-84P03 2L	17290671	17311671	estimated_end	17290671
	located_end	17311671		
CH322-84P04 ArmU	70741 91741	located_end 70741	estimated_end	91741
CH322-84P05 3R	18382112	18403112	estimated_end	18382112
	located_end	18403112		
CH322-84P06 3L	4921114	4942114	located_end	4921114
	estimated_end	4942114		
CH322-84P07 3R	19254468	19275468	estimated_end	19254468
	located_end	19275468		
CH322-84P08 3L	20026583	20047583	located_end	20026583
	estimated_end	20047583		
CH322-84P09 2L	21062440	21083440	located_end	21062440
	estimated_end	21083440		
CH322-84P10 3L	21985507	22006507	located_end	21985507
	estimated_end	22006507		
CH322-84P11 3R	24121403	24142403	estimated_end	24121403
	located_end	24142403		
CH322-84P12 3L	2313072	2334072	located_end	2313072
	estimated_end	2334072		
CH322-84P13 2L	4525333	4546333	estimated_end	4525333
	located_end	4546333		

CH322-84P14 3R	8547634	8568634	estimated_end	8547634
	located_end	8568634		
CH322-84P15 3LHet	2425910	2446910	estimated_end	2425910
	located_end	2446910		
CH322-84P16 3L	14479193	14500193	located_end	14479193
	estimated_end	14500193		
CH322-84P18 2L	4970644	4991644	located_end	4970644
	estimated_end	4991644		
CH322-84P19 3R	4364110	4385110	located_end	4364110
	estimated_end	4385110		
CH322-84P20 2R	13342105	13363105	located_end	13342105
	estimated_end	13363105		
CH322-84P21 2R	15338180	15359180	located_end	15338180
	estimated_end	15359180		
CH322-84P22 2L	18333827	18354827	located_end	18333827
	estimated_end	18354827		
CH322-84P23 X	2851212	2872212	located_end	2851212
	estimated_end	2872212		
CH322-85A01 2R	13911236	13932236	located_end	13911236
	estimated_end	13932236		
CH322-85A02 3R	2558089	2579089	located_end	2558089
	estimated_end	2579089		
CH322-85A03 3R	5042076	5063076	estimated_end	5042076
	located_end	5063076		
CH322-85A04 2L	19970540	19991540	located_end	19970540
	estimated_end	19991540		
CH322-85A05 3R	15005509	15026509	estimated_end	15005509
	located_end	15026509		
CH322-85A07 2R	3105206	3126206	located_end	3105206
	estimated_end	3126206		
CH322-85A08 3L	15086447	15107447	estimated_end	15086447
	located_end	15107447		
CH322-85A09 2L	19240608	19261608	estimated_end	19240608
	located_end	19261608		
CH322-85A10 X	18675004	18696004	estimated_end	18675004
	located_end	18696004		
CH322-85A11 3R	4540261	4561261	estimated_end	4540261
	located_end	4561261		
CH322-85A12 2R	14863740	14884740	estimated_end	14863740
	located_end	14884740		
CH322-85A13 X	5225141	5246141	estimated_end	5225141
	located_end	5246141		
CH322-85A16 3R	17861902	17882902	estimated_end	17861902
	located_end	17882902		
CH322-85A17 3R	7216116	7237116	estimated_end	7216116
	located_end	7237116		
CH322-85A18 4	335200	356200	located_end	335200
	estimated_end	356200		
CH322-85A19 2L	22188185	22209185	estimated_end	22188185
	located_end	22209185		
CH322-85A20 ArmU	5677689	5698689	estimated_end	5677689
	located_end	5698689		
CH322-85A21 X	11107831	11128831	located_end	11107831
	estimated_end	11128831		

CH322-85A22 2L	20302832	20323832	estimated_end	20302832
	located_end	20323832		
CH322-85A23 X	16912325	16933325	located_end	16912325
	estimated_end	16933325		
CH322-85B01 3R	171087	192087	estimated_end	171087
	located_end	192087		
CH322-85B03 3L	5398223	5419223	estimated_end	5398223
	located_end	5419223		
CH322-85B05 3L	2006260	2027260	located_end	2006260
	estimated_end	2027260		
CH322-85B06 2L	1880082	1901082	located_end	1880082
	estimated_end	1901082		
CH322-85B07 3R	19639572	19660572	estimated_end	19639572
	located_end	19660572		
CH322-85B08 3R	23579309	23600309	located_end	23579309
	estimated_end	23600309		
CH322-85B10 2L	20074589	20095589	estimated_end	20074589
	located_end	20095589		
CH322-85B11 2L	11117045	11138045	located_end	11117045
	estimated_end	11138045		
CH322-85B12 2R	7771580	7792580	estimated_end	7771580
	located_end	7792580		
CH322-85B13 X	6952125	6973125	located_end	6952125
	estimated_end	6973125		
CH322-85B15 3L	7798696	7819696	estimated_end	7798696
	located_end	7819696		
CH322-85B16 X	6163910	6184910	located_end	6163910
	estimated_end	6184910		
CH322-85B18 X	9306843	9327843	located_end	9306843
	estimated_end	9327843		
CH322-85B20 3R	24568993	24589993	located_end	24568993
	estimated_end	24589993		
CH322-85B22 3R	16288236	16309236	estimated_end	16288236
	located_end	16309236		
CH322-85B23 3R	27255430	27276430	estimated_end	27255430
	located_end	27276430		
CH322-85B24 3L	10391902	10412902	estimated_end	10391902
	located_end	10412902		
CH322-85C01 X	5265849	5286849	located_end	5265849
	estimated_end	5286849		
CH322-85C02 3R	5669840	5690840	estimated_end	5669840
	located_end	5690840		
CH322-85C03 2R	18925610	18946610	located_end	18925610
	estimated_end	18946610		
CH322-85C04 3R	26401780	26422780	estimated_end	26401780
	located_end	26422780		
CH322-85C06 2L	14492548	14513548	located_end	14492548
	estimated_end	14513548		
CH322-85C08 2L	10152786	10173786	estimated_end	10152786
	located_end	10173786		
CH322-85C09 2L	17243214	17264214	estimated_end	17243214
	located_end	17264214		
CH322-85C11 3R	2668127	2689127	located_end	2668127
	estimated_end	2689127		

CH322-85C12 2L	8255212	8276212	located_end	8255212
	estimated_end	8276212		
CH322-85C13 3R	11091570	11112570	estimated_end	11091570
	located_end	11112570		
CH322-85C15 3L	6259313	6280313	estimated_end	6259313
	located_end	6280313		
CH322-85C16 3L	668447	689447	estimated_end	668447
	located_end	689447		
CH322-85C17 3R	10863974	10884974	estimated_end	10863974
	located_end	10884974		
CH322-85C18 4	335202	356202	located_end	335202
	estimated_end	356202		
CH322-85C19 3L	12349679	12370679	located_end	12349679
	estimated_end	12370679		
CH322-85C20 3R	13531745	13552745	located_end	13531745
	estimated_end	13552745		
CH322-85C21 3R	13537232	13558232	located_end	13537232
	estimated_end	13558232		
CH322-85C24 3L	10352456	10373456	located_end	10352456
	estimated_end	10373456		
CH322-85D01 2R	16314119	16335119	estimated_end	16314119
	located_end	16335119		
CH322-85D03 3R	9015795	9036795	estimated_end	9015795
	located_end	9036795		
CH322-85D04 2R	3954813	3975813	located_end	3954813
	estimated_end	3975813		
CH322-85D05 2L	11850975	11871975	estimated_end	11850975
	located_end	11871975		
CH322-85D06 3R	6531050	6552050	estimated_end	6531050
	located_end	6552050		
CH322-85D07 2R	14864494	14885494	estimated_end	14864494
	located_end	14885494		
CH322-85D08 3R	23535762	23556762	located_end	23535762
	estimated_end	23556762		
CH322-85D09 3R	26981144	27002144	estimated_end	26981144
	located_end	27002144		
CH322-85D13 3R	26313509	26334509	estimated_end	26313509
	located_end	26334509		
CH322-85D14 3R	11265571	11286571	located_end	11265571
	estimated_end	11286571		
CH322-85D15 3R	27668490	27689490	located_end	27668490
	estimated_end	27689490		
CH322-85D17 2L	10027455	10048455	located_end	10027455
	estimated_end	10048455		
CH322-85D18 2R	18499638	18520638	estimated_end	18499638
	located_end	18520638		
CH322-85D19 3R	16263421	16284421	located_end	16263421
	estimated_end	16284421		
CH322-85D21 2L	7689957	7710957	estimated_end	7689957
	located_end	7710957		
CH322-85D23 X	19682536	19703536	located_end	19682536
	estimated_end	19703536		
CH322-85D24 3LHet	1721326	1742326	estimated_end	1721326
	located_end	1742326		

CH322-85E01 2L	260116	281116	estimated_end	260116
	located_end	281116		
CH322-85E03 X	17890908	17911908	located_end	17890908
	estimated_end	17911908		
CH322-85E05 3R	23142809	23163809	estimated_end	23142809
	located_end	23163809		
CH322-85E06 2L	1848668	1869668	located_end	1848668
	estimated_end	1869668		
CH322-85E07 X	553364	574364	estimated_end	553364
	located_end	574364		
CH322-85E08 3R	27188089	27209089	estimated_end	27188089
	located_end	27209089		
CH322-85E09 2R	18496731	18517731	located_end	18496731
	estimated_end	18517731		
CH322-85E10 4	250467	271467	estimated_end	250467
	located_end	271467		
CH322-85E12 3L	12639342	12660342	located_end	12639342
	estimated_end	12660342		
CH322-85E13 2R	17425425	17446425	located_end	17425425
	estimated_end	17446425		
CH322-85E14 2L	19921550	19942550	located_end	19921550
	estimated_end	19942550		
CH322-85E15 3L	7475374	7496374	located_end	7475374
	estimated_end	7496374		
CH322-85E16 3R	11245381	11266381	estimated_end	11245381
	located_end	11266381		
CH322-85E17 2L	15087193	15108193	estimated_end	15087193
	located_end	15108193		
CH322-85E18 2L	16937186	16958186	located_end	16937186
	estimated_end	16958186		
CH322-85E19 2R	3662405	3683405	estimated_end	3662405
	located_end	3683405		
CH322-85E20 3R	9983464	10004464	located_end	9983464
	estimated_end	10004464		
CH322-85E21 2L	14661257	14682257	located_end	14661257
	estimated_end	14682257		
CH322-85E22 2R	20137244	20158244	estimated_end	20137244
	located_end	20158244		
CH322-85E23 3L	2311028	2332028	located_end	2311028
	estimated_end	2332028		
CH322-85F01 2L	15610162	15631162	estimated_end	15610162
	located_end	15631162		
CH322-85F02 X	9743983	9764983	located_end	9743983
	estimated_end	9764983		
CH322-85F03 3R	22342227	22363227	estimated_end	22342227
	located_end	22363227		
CH322-85F05 2L	20616802	20637802	located_end	20616802
	estimated_end	20637802		
CH322-85F06 3R	15623914	15644914	located_end	15623914
	estimated_end	15644914		
CH322-85F07 2R	7845756	7866756	located_end	7845756
	estimated_end	7866756		
CH322-85F09 3R	19841041	19862041	located_end	19841041
	estimated_end	19862041		

CH322-85F10 3R	18620113	18641113	located_end	18620113
	estimated_end	18641113		
CH322-85F11 X	388524	409524	estimated_end	388524
	located_end	409524		
CH322-85F12 2R	7709937	7730937	located_end	7709937
	estimated_end	7730937		
CH322-85F13 3R	7158907	7179907	located_end	7158907
	estimated_end	7179907		
CH322-85F14 2L	3311453	3332453	located_end	3311453
	estimated_end	3332453		
CH322-85F17 2R	537440	558440	estimated_end	537440
	located_end	558440		
CH322-85F18 2L	9670060	9691060	located_end	9670060
	estimated_end	9691060		
CH322-85F21 3R	22863384	22884384	located_end	22863384
	estimated_end	22884384		
CH322-85F22 2R	8505923	8526923	estimated_end	8505923
	located_end	8526923		
CH322-85F24 3R	11826551	11847551	estimated_end	11826551
	located_end	11847551		
CH322-85G01 4	1307288	1328288	located_end	1307288
	estimated_end	1328288		
CH322-85G03 3L	11398174	11419174	estimated_end	11398174
	located_end	11419174		
CH322-85G04 3R	15243197	15264197	estimated_end	15243197
	located_end	15264197		
CH322-85G05 2R	17378551	17399551	located_end	17378551
	estimated_end	17399551		
CH322-85G06 2R	16955388	16976388	estimated_end	16955388
	located_end	16976388		
CH322-85G07 ArmU	1171393	1192393	estimated_end	1171393
	located_end	1192393		
CH322-85G08 2L	21867029	21888029	located_end	21867029
	estimated_end	21888029		
CH322-85G09 2R	15702767	15723767	estimated_end	15702767
	located_end	15723767		
CH322-85G10 2R	516646	537646	located_end	516646
	estimated_end	537646		
CH322-85G12 3R	12064518	12085518	estimated_end	12064518
	located_end	12085518		
CH322-85G13 2R	18972412	18993412	located_end	18972412
	estimated_end	18993412		
CH322-85G14 3L	21589821	21610821	estimated_end	21589821
	located_end	21610821		
CH322-85G15 3R	18613168	18634168	estimated_end	18613168
	located_end	18634168		
CH322-85G16 4	969071	990071	located_end	969071
	estimated_end	990071		
CH322-85G17 3L	13967462	13988462	estimated_end	13967462
	located_end	13988462		
CH322-85G18 3L	21929989	21950989	located_end	21929989
	estimated_end	21950989		
CH322-85G19 2R	17935515	17956515	located_end	17935515
	estimated_end	17956515		

CH322-85G20 3L	22503768	22524768	located_end	22503768
	estimated_end	22524768		
CH322-85G22 2R	2093085	2114085	estimated_end	2093085
	located_end	2114085		
CH322-85G23 3R	25425965	25446965	estimated_end	25425965
	located_end	25446965		
CH322-85G24 X	15302602	15323602	estimated_end	15302602
	located_end	15323602		
CH322-85H02 3R	20974492	20995492	estimated_end	20974492
	located_end	20995492		
CH322-85H03 2L	4046049	4067049	located_end	4046049
	estimated_end	4067049		
CH322-85H04 X	7362021	7383021	estimated_end	7362021
	located_end	7383021		
CH322-85H05 XHet	134646	155646	located_end	134646
	estimated_end	155646		
CH322-85H07 3R	7914776	7935776	estimated_end	7914776
	located_end	7935776		
CH322-85H08 3R	3474277	3495277	located_end	3474277
	estimated_end	3495277		
CH322-85H09 X	2992218	3013218	located_end	2992218
	estimated_end	3013218		
CH322-85H10 2R	7415492	7436492	located_end	7415492
	estimated_end	7436492		
CH322-85H11 2L	21271546	21292546	located_end	21271546
	estimated_end	21292546		
CH322-85H12 3L	2861958	2882958	estimated_end	2861958
	located_end	2882958		
CH322-85H13 2L	4744135	4765135	located_end	4744135
	estimated_end	4765135		
CH322-85H14 2R	9113556	9134556	estimated_end	9113556
	located_end	9134556		
CH322-85H15 2L	9204074	9225074	located_end	9204074
	estimated_end	9225074		
CH322-85H16 2R	6807254	6828254	estimated_end	6807254
	located_end	6828254		
CH322-85H17 3R	10819764	10840764	estimated_end	10819764
	located_end	10840764		
CH322-85H18 3R	3039820	3060820	located_end	3039820
	estimated_end	3060820		
CH322-85H19 3R	20881997	20902997	located_end	20881997
	estimated_end	20902997		
CH322-85H20 2L	6110137	6131137	located_end	6110137
	estimated_end	6131137		
CH322-85H21 3R	13734308	13755308	located_end	13734308
	estimated_end	13755308		
CH322-85I01 3R	21786083	21807083	located_end	21786083
	estimated_end	21807083		
CH322-85I02 3R	5011171	5032171	estimated_end	5011171
	located_end	5032171		
CH322-85I03 X	9782865	9803865	estimated_end	9782865
	located_end	9803865		
CH322-85I04 3L	14834343	14855343	located_end	14834343
	estimated_end	14855343		

CH322-85I05 3R	22954021	22975021	estimated_end	22954021
	located_end	22975021		
CH322-85I06 3R	22593551	22614551	estimated_end	22593551
	located_end	22614551		
CH322-85I08 X	21478755	21499755	estimated_end	21478755
	located_end	21499755		
CH322-85I09 2R	16318416	16339416	estimated_end	16318416
	located_end	16339416		
CH322-85I10 3R	18329742	18350742	located_end	18329742
	estimated_end	18350742		
CH322-85I11 2L	19627362	19648362	estimated_end	19627362
	located_end	19648362		
CH322-85I13 3R	10136121	10157121	located_end	10136121
	estimated_end	10157121		
CH322-85I15 3L	15387396	15408396	located_end	15387396
	estimated_end	15408396		
CH322-85I16 2L	9036857	9057857	located_end	9036857
	estimated_end	9057857		
CH322-85I17 3R	26013016	26034016	estimated_end	26013016
	located_end	26034016		
CH322-85I18 3R	4978430	4999430	located_end	4978430
	estimated_end	4999430		
CH322-85I20 X	17733362	17754362	located_end	17733362
	estimated_end	17754362		
CH322-85I21 4	450398	471398	estimated_end	450398
	located_end	471398		
CH322-85I23 3L	4602660	4623660	estimated_end	4602660
	located_end	4623660		
CH322-85J01 3R	5706894	5727894	located_end	5706894
	estimated_end	5727894		
CH322-85J02 X	14500369	14521369	located_end	14500369
	estimated_end	14521369		
CH322-85J03 3L	21821189	21842189	located_end	21821189
	estimated_end	21842189		
CH322-85J04 3R	20613835	20634835	located_end	20613835
	estimated_end	20634835		
CH322-85J05 3R	24363389	24384389	located_end	24363389
	estimated_end	24384389		
CH322-85J06 3R	6938316	6959316	estimated_end	6938316
	located_end	6959316		
CH322-85J08 X	11194722	11215722	estimated_end	11194722
	located_end	11215722		
CH322-85J09 2R	16524789	16545789	located_end	16524789
	estimated_end	16545789		
CH322-85J10 3R	658008	679008	estimated_end	658008
	located_end	679008		
CH322-85J11 2R	4743882	4764882	estimated_end	4743882
	located_end	4764882		
CH322-85J12 3R	3063981	3084981	estimated_end	3063981
	located_end	3084981		
CH322-85J13 2L	12295986	12316986	estimated_end	12295986
	located_end	12316986		
CH322-85J14 2R	12386370	12407370	located_end	12386370
	estimated_end	12407370		

CH322-85J15 2L	2501384	2522384	located_end	2501384
	estimated_end	2522384		
CH322-85J16 2R	20471525	20492525	estimated_end	20471525
	located_end	20492525		
CH322-85J17 3L	20049151	20070151	estimated_end	20049151
	located_end	20070151		
CH322-85J18 2L	21937667	21958667	located_end	21937667
	estimated_end	21958667		
CH322-85J19 3R	15040561	15061561	located_end	15040561
	estimated_end	15061561		
CH322-85J21 2R	19327363	19348363	estimated_end	19327363
	located_end	19348363		
CH322-85J22 3L	7524046	7545046	located_end	7524046
	estimated_end	7545046		
CH322-85J23 X	10001340	10022340	located_end	10001340
	estimated_end	10022340		
CH322-85J24 2L	14538363	14559363	located_end	14538363
	estimated_end	14559363		
CH322-85K01 2L	18544225	18565225	estimated_end	18544225
	located_end	18565225		
CH322-85K02 3L	19325820	19346820	located_end	19325820
	estimated_end	19346820		
CH322-85K03 2R	6742158	6763158	located_end	6742158
	estimated_end	6763158		
CH322-85K05 3L	14889117	14910117	located_end	14889117
	estimated_end	14910117		
CH322-85K08 3R	2421072	2442072	estimated_end	2421072
	located_end	2442072		
CH322-85K09 2L	4535979	4556979	estimated_end	4535979
	located_end	4556979		
CH322-85K11 2R	14759744	14780744	located_end	14759744
	estimated_end	14780744		
CH322-85K12 2L	3405719	3426719	located_end	3405719
	estimated_end	3426719		
CH322-85K13 2R	9518926	9539926	located_end	9518926
	estimated_end	9539926		
CH322-85K14 4	521998	542998	located_end	521998
	estimated_end	542998		
CH322-85K16 2L	17991147	18012147	located_end	17991147
	estimated_end	18012147		
CH322-85K18 2L	9626015	9647015	located_end	9626015
	estimated_end	9647015		
CH322-85K19 3L	15370151	15391151	located_end	15370151
	estimated_end	15391151		
CH322-85K20 3L	19361520	19382520	estimated_end	19361520
	located_end	19382520		
CH322-85K21 2L	1772955	1793955	estimated_end	1772955
	located_end	1793955		
CH322-85K24 3R	3409404	3430404	located_end	3409404
	estimated_end	3430404		
CH322-85L01 X	18604078	18625078	estimated_end	18604078
	located_end	18625078		
CH322-85L03 3L	21350221	21371221	located_end	21350221
	estimated_end	21371221		

CH322-85L04 3R	21519675	21540675	located_end	21519675
estimated_end	21540675			
CH322-85L08 X	16835975	16856975	located_end	16835975
estimated_end	16856975			
CH322-85L10 3R	12694422	12715422	estimated_end	12694422
located_end	12715422			
CH322-85L13 X	9501709	9522709	located_end	9501709
estimated_end	9522709			
CH322-85L14 ArmU	7192181	7213181	located_end	7192181
estimated_end	7213181			
CH322-85L15 3R	5581130	5602130	located_end	5581130
estimated_end	5602130			
CH322-85L16 2L	7486271	7507271	located_end	7486271
estimated_end	7507271			
CH322-85L17 2R	13885108	13906108	estimated_end	13885108
located_end	13906108			
CH322-85L18 2R	14616716	14637716	located_end	14616716
estimated_end	14637716			
CH322-85L19 2L	6539068	6560068	located_end	6539068
estimated_end	6560068			
CH322-85L22 2R	5877994	5898994	located_end	5877994
estimated_end	5898994			
CH322-85L23 2L	15498399	15519399	located_end	15498399
estimated_end	15519399			
CH322-85L24 2L	4413730	4434730	located_end	4413730
estimated_end	4434730			
CH322-85M01 3R	5038510	5059510	estimated_end	5038510
located_end	5059510			
CH322-85M02 2R	11843889	11864889	estimated_end	11843889
located_end	11864889			
CH322-85M03 2L	4103948	4124948	located_end	4103948
estimated_end	4124948			
CH322-85M04 3L	17766051	17787051	estimated_end	17766051
located_end	17787051			
CH322-85M06 X	2665859	2686859	estimated_end	2665859
located_end	2686859			
CH322-85M07 3L	14322250	14343250	located_end	14322250
estimated_end	14343250			
CH322-85M08 2L	3250322	3271322	estimated_end	3250322
located_end	3271322			
CH322-85M09 2L	9119036	9140036	estimated_end	9119036
located_end	9140036			
CH322-85M11 2R	8923892	8944892	located_end	8923892
estimated_end	8944892			
CH322-85M12 2L	9662737	9683737	estimated_end	9662737
located_end	9683737			
CH322-85M13 X	13237583	13258583	located_end	13237583
estimated_end	13258583			
CH322-85M14 3R	21049903	21070903	located_end	21049903
estimated_end	21070903			
CH322-85M17 X	8880531	8901531	located_end	8880531
estimated_end	8901531			
CH322-85M18 3R	15779408	15800408	estimated_end	15779408
located_end	15800408			

CH322-85M20 2R	12505414	12526414	located_end	12505414
	estimated_end	12526414		
CH322-85M22 3L	2332073	2353073	estimated_end	2332073
	located_end	2353073		
CH322-85M24 2L	4046585	4067585	located_end	4046585
	estimated_end	4067585		
CH322-85N01 2R	19059203	19080203	located_end	19059203
	estimated_end	19080203		
CH322-85N02 2R	4254480	4275480	estimated_end	4254480
	located_end	4275480		
CH322-85N03 3L	5384840	5405840	located_end	5384840
	estimated_end	5405840		
CH322-85N04 X	8298833	8319833	estimated_end	8298833
	located_end	8319833		
CH322-85N05 X	798530	819530	located_end	798530
	estimated_end	819530		
CH322-85N06 X	20959539	20980539	located_end	20959539
	estimated_end	20980539		
CH322-85N07 2L	21752565	21773565	located_end	21752565
	estimated_end	21773565		
CH322-85N09 X	12990004	13011004	estimated_end	12990004
	located_end	13011004		
CH322-85N10 2R	19465351	19486351	estimated_end	19465351
	located_end	19486351		
CH322-85N11 2L	573756	594756	located_end	573756
	estimated_end	594756		
CH322-85N13 2L	16310101	16331101	located_end	16310101
	estimated_end	16331101		
CH322-85N14 2R	13081154	13102154	estimated_end	13081154
	located_end	13102154		
CH322-85N15 2L	12336196	12357196	estimated_end	12336196
	located_end	12357196		
CH322-85N16 ArmU	453544	474544	estimated_end	453544
	located_end	474544		
CH322-85N17 2R	19945331	19966331	estimated_end	19945331
	located_end	19966331		
CH322-85N18 3R	15003610	15024610	located_end	15003610
	estimated_end	15024610		
CH322-85N19 3L	9228659	9249659	estimated_end	9228659
	located_end	9249659		
CH322-85N21 3R	9434646	9455646	estimated_end	9434646
	located_end	9455646		
CH322-85N22 3RHet	1464698	1485698	located_end	1464698
	estimated_end	1485698		
CH322-85N23 2L	12213794	12234794	located_end	12213794
	estimated_end	12234794		
CH322-85N24 2L	1315924	1336924	estimated_end	1315924
	located_end	1336924		
CH322-85O01 X	13663379	13684379	estimated_end	13663379
	located_end	13684379		
CH322-85O02 2L	12465349	12486349	located_end	12465349
	estimated_end	12486349		
CH322-85O04 3R	10099251	10120251	estimated_end	10099251
	located_end	10120251		

CH322-85005 3R	2844581	2865581	located_end	2844581
	estimated_end	2865581		
CH322-85006 3R	13681434	13702434	located_end	13681434
	estimated_end	13702434		
CH322-85007 3R	23746101	23767101	estimated_end	23746101
	located_end	23767101		
CH322-85008 3L	21803158	21824158	located_end	21803158
	estimated_end	21824158		
CH322-85009 3R	9678552	9699552	estimated_end	9678552
	located_end	9699552		
CH322-85010 2L	15785022	15806022	estimated_end	15785022
	located_end	15806022		
CH322-85011 2L	15477406	15498406	estimated_end	15477406
	located_end	15498406		
CH322-85012 3L	18525476	18546476	estimated_end	18525476
	located_end	18546476		
CH322-85013 2R	12196641	12217641	estimated_end	12196641
	located_end	12217641		
CH322-85014 3R	14640200	14661200	estimated_end	14640200
	located_end	14661200		
CH322-85015 X	17782308	17803308	estimated_end	17782308
	located_end	17803308		
CH322-85017 3L	6027556	6048556	estimated_end	6027556
	located_end	6048556		
CH322-85018 2L	1509246	1530246	located_end	1509246
	estimated_end	1530246		
CH322-85020 X	19280108	19301108	estimated_end	19280108
	located_end	19301108		
CH322-85021 3L	4598452	4619452	located_end	4598452
	estimated_end	4619452		
CH322-85022 3R	155892	176892	located_end	155892
	estimated_end	176892		
CH322-85023 3L	21494070	21515070	located_end	21494070
	estimated_end	21515070		
CH322-85P01 3R	17366869	17387869	located_end	17366869
	estimated_end	17387869		
CH322-85P02 X	9411024	9432024	located_end	9411024
	estimated_end	9432024		
CH322-85P03 3R	25796155	25817155	located_end	25796155
	estimated_end	25817155		
CH322-85P04 X	12352162	12373162	estimated_end	12352162
	located_end	12373162		
CH322-85P05 ArmU	4427390	4448390	estimated_end	4427390
	located_end	4448390		
CH322-85P06 2L	9111548	9132548	estimated_end	9111548
	located_end	9132548		
CH322-85P07 2L	1688678	1709678	estimated_end	1688678
	located_end	1709678		
CH322-85P09 X	17746407	17767407	located_end	17746407
	estimated_end	17767407		
CH322-85P10 2L	6351553	6372553	estimated_end	6351553
	located_end	6372553		
CH322-85P11 2L	17950018	17971018	estimated_end	17950018
	located_end	17971018		

CH322-85P12 X	22187593	22208593	estimated_end	22187593
	located_end	22208593		
CH322-85P14 3L	21983031	22004031	estimated_end	21983031
	located_end	22004031		
CH322-85P16 3L	16853017	16874017	located_end	16853017
	estimated_end	16874017		
CH322-85P17 3L	13328190	13349190	located_end	13328190
	estimated_end	13349190		
CH322-85P18 3R	7671351	7692351	estimated_end	7671351
	located_end	7692351		
CH322-85P19 2L	18571019	18592019	located_end	18571019
	estimated_end	18592019		
CH322-85P20 3L	20625971	20646971	estimated_end	20625971
	located_end	20646971		
CH322-85P21 3L	1744516	1765516	estimated_end	1744516
	located_end	1765516		
CH322-86A09 4	236017	257017	located_end	236017
	estimated_end	257017		
CH322-86A19 3R	27089177	27110177	located_end	27089177
	estimated_end	27110177		
CH322-86A22 3R	23445926	23466926	located_end	23445926
	estimated_end	23466926		
CH322-86B18 3RHet	2107630	2128630	estimated_end	2107630
	located_end	2128630		
CH322-86C01 2L	20455039	20476039	estimated_end	20455039
	located_end	20476039		
CH322-86D15 3R	23189361	23210361	estimated_end	23189361
	located_end	23210361		
CH322-86D21 X	11513624	11534624	located_end	11513624
	estimated_end	11534624		
CH322-86E01 ArmU	1549607	1570607	estimated_end	1549607
	located_end	1570607		
CH322-86E09 3R	14473810	14494810	located_end	14473810
	estimated_end	14494810		
CH322-86F16 2L	1228065	1249065	estimated_end	1228065
	located_end	1249065		
CH322-86F18 X	22006140	22027140	located_end	22006140
	estimated_end	22027140		
CH322-86G08 3R	14779215	14800215	located_end	14779215
	estimated_end	14800215		
CH322-86G14 2L	17149151	17170151	estimated_end	17149151
	located_end	17170151		
CH322-86G18 3R	18103326	18124326	located_end	18103326
	estimated_end	18124326		
CH322-86G24 ArmU	948568	969568	estimated_end	948568
	located_end	969568		
CH322-86H05 2L	1752339	1773339	located_end	1752339
	estimated_end	1773339		
CH322-86H14 2L	5403963	5424963	estimated_end	5403963
	located_end	5424963		
CH322-86H17 2RHet	605589	626589	located_end	605589
	estimated_end	626589		
CH322-86I19 2L	19148546	19169546	estimated_end	19148546
	located_end	19169546		

CH322-86J02 2L	19690042	19711042	located_end	19690042
	estimated_end	19711042		
CH322-86J09 2RHet	1895316	1916316	located_end	1895316
	estimated_end	1916316		
CH322-86J15 2R	3295950	3316950	located_end	3295950
	estimated_end	3316950		
CH322-86J23 3R	1967123	1988123	located_end	1967123
	estimated_end	1988123		
CH322-86K01 3R	7821066	7842066	located_end	7821066
	estimated_end	7842066		
CH322-86K04 3R	506380	527380	estimated_end	506380
	located_end	527380		
CH322-86K07 X	13052391	13073391	located_end	13052391
	estimated_end	13073391		
CH322-86L11 3R	25478825	25499825	estimated_end	25478825
	located_end	25499825		
CH322-86M19 2R	11005239	11026239	estimated_end	11005239
	located_end	11026239		
CH322-86M21 3R	2339240	2360240	estimated_end	2339240
	located_end	2360240		
CH322-86N02 3L	22695670	22716670	located_end	22695670
	estimated_end	22716670		
CH322-86N08 3R	11729688	11750688	estimated_end	11729688
	located_end	11750688		
CH322-86N13 3RHet	2329614	2350614	estimated_end	2329614
	located_end	2350614		
CH322-86N20 X	11511794	11532794	located_end	11511794
	estimated_end	11532794		
CH322-86O23 3L	7159082	7180082	located_end	7159082
	estimated_end	7180082		
CH322-86P02 ArmU	8185131	8206131	located_end	8185131
	estimated_end	8206131		
CH322-86P09 2L	22984645	23005645	located_end	22984645
	estimated_end	23005645		
CH322-87A02 3L	20182091	20203091	located_end	20182091
	estimated_end	20203091		
CH322-87A03 3R	27769891	27790891	estimated_end	27769891
	located_end	27790891		
CH322-87A04 3L	13089869	13110869	estimated_end	13089869
	located_end	13110869		
CH322-87A06 X	2162954	2183954	located_end	2162954
	estimated_end	2183954		
CH322-87A07 2L	6775543	6796543	estimated_end	6775543
	located_end	6796543		
CH322-87A08 3L	331733	352733	located_end	331733
	estimated_end	352733		
CH322-87A09 3L	10231394	10252394	estimated_end	10231394
	located_end	10252394		
CH322-87A10 2L	19908741	19929741	estimated_end	19908741
	located_end	19929741		
CH322-87A11 4	952583	973583	estimated_end	952583
	located_end	973583		
CH322-87A13 2L	21609231	21630231	located_end	21609231
	estimated_end	21630231		

CH322-87A14 2R	8707854	8728854	estimated_end	8707854
	located_end	8728854		
CH322-87A15 3L	2542763	2563763	located_end	2542763
	estimated_end	2563763		
CH322-87A16 X	17918247	17939247	estimated_end	17918247
	located_end	17939247		
CH322-87A17 X	4903734	4924734	located_end	4903734
	estimated_end	4924734		
CH322-87A18 3R	6960449	6981449	estimated_end	6960449
	located_end	6981449		
CH322-87A19 2R	4208813	4229813	estimated_end	4208813
	located_end	4229813		
CH322-87A20 X	20676858	20697858	located_end	20676858
	estimated_end	20697858		
CH322-87A21 X	6568813	6589813	estimated_end	6568813
	located_end	6589813		
CH322-87A24 3L	4558036	4579036	estimated_end	4558036
	located_end	4579036		
CH322-87B01 X	7317011	7338011	estimated_end	7317011
	located_end	7338011		
CH322-87B02 3LHet	1202870	1223870	estimated_end	1202870
	located_end	1223870		
CH322-87B03 3L	20592932	20613932	located_end	20592932
	estimated_end	20613932		
CH322-87B05 3R	16310470	16331470	estimated_end	16310470
	located_end	16331470		
CH322-87B06 2L	9286701	9307701	located_end	9286701
	estimated_end	9307701		
CH322-87B08 2R	20566571	20587571	estimated_end	20566571
	located_end	20587571		
CH322-87B09 X	1748048	1769048	located_end	1748048
	estimated_end	1769048		
CH322-87B10 3L	11644455	11665455	estimated_end	11644455
	located_end	11665455		
CH322-87B11 3L	22468552	22489552	located_end	22468552
	estimated_end	22489552		
CH322-87B12 3L	2756915	2777915	estimated_end	2756915
	located_end	2777915		
CH322-87B13 3R	5272700	5293700	located_end	5272700
	estimated_end	5293700		
CH322-87B14 3L	23720777	23741777	estimated_end	23720777
	located_end	23741777		
CH322-87B15 2L	10028308	10049308	located_end	10028308
	estimated_end	10049308		
CH322-87B16 X	21980953	22001953	estimated_end	21980953
	located_end	22001953		
CH322-87B17 3R	1461210	1482210	located_end	1461210
	estimated_end	1482210		
CH322-87B18 3R	25594200	25615200	located_end	25594200
	estimated_end	25615200		
CH322-87B19 3R	2736689	2757689	located_end	2736689
	estimated_end	2757689		
CH322-87B20 2L	21184617	21205617	located_end	21184617
	estimated_end	21205617		

CH322-87B22 3R	13659025	13680025	estimated_end	13659025
	located_end	13680025		
CH322-87B24 2RHet	3154468	3175468	located_end	3154468
	estimated_end	3175468		
CH322-87C01 3L	13248092	13269092	estimated_end	13248092
	located_end	13269092		
CH322-87C02 2R	631638	652638	located_end	631638
	estimated_end	652638		
CH322-87C03 X	20453318	20474318	estimated_end	20453318
	located_end	20474318		
CH322-87C05 2R	10460084	10481084	located_end	10460084
	estimated_end	10481084		
CH322-87C09 2R	7323701	7344701	estimated_end	7323701
	located_end	7344701		
CH322-87C12 2R	5646116	5667116	estimated_end	5646116
	located_end	5667116		
CH322-87C13 3R	5089630	5110630	located_end	5089630
	estimated_end	5110630		
CH322-87C15 3R	8669402	8690402	located_end	8669402
	estimated_end	8690402		
CH322-87C16 X	9371285	9392285	estimated_end	9371285
	located_end	9392285		
CH322-87C17 X	4349700	4370700	estimated_end	4349700
	located_end	4370700		
CH322-87C19 3R	3944157	3965157	located_end	3944157
	estimated_end	3965157		
CH322-87C21 2L	9551028	9572028	estimated_end	9551028
	located_end	9572028		
CH322-87C23 2L	3985226	4006226	estimated_end	3985226
	located_end	4006226		
CH322-87C24 X	14732619	14753619	located_end	14732619
	estimated_end	14753619		
CH322-87D01 2R	12466501	12487501	estimated_end	12466501
	located_end	12487501		
CH322-87D02 X	2109627	2130627	located_end	2109627
	estimated_end	2130627		
CH322-87D04 X	12618743	12639743	located_end	12618743
	estimated_end	12639743		
CH322-87D06 3R	5315146	5336146	located_end	5315146
	estimated_end	5336146		
CH322-87D09 2L	10735634	10756634	located_end	10735634
	estimated_end	10756634		
CH322-87D11 3R	8194556	8215556	estimated_end	8194556
	located_end	8215556		
CH322-87D13 X	10889989	10910989	estimated_end	10889989
	located_end	10910989		
CH322-87D14 3R	13755358	13776358	estimated_end	13755358
	located_end	13776358		
CH322-87D15 3L	16618068	16639068	estimated_end	16618068
	located_end	16639068		
CH322-87D17 2R	19377345	19398345	located_end	19377345
	estimated_end	19398345		
CH322-87D19 2L	9397750	9418750	located_end	9397750
	estimated_end	9418750		

CH322-87D20 X	18768162	18789162	located_end	18768162
	estimated_end	18789162		
CH322-87D21 X	14395944	14416944	located_end	14395944
	estimated_end	14416944		
CH322-87D22 X	4012182	4033182	estimated_end	4012182
	located_end	4033182		
CH322-87D24 2L	16608786	16629786	located_end	16608786
	estimated_end	16629786		
CH322-87E01 3R	9982987	10003987	estimated_end	9982987
	located_end	10003987		
CH322-87E05 3R	26433271	26454271	located_end	26433271
	estimated_end	26454271		
CH322-87E06 3L	4777872	4798872	estimated_end	4777872
	located_end	4798872		
CH322-87E07 3L	10489054	10510054	estimated_end	10489054
	located_end	10510054		
CH322-87E10 X	3854074	3875074	located_end	3854074
	estimated_end	3875074		
CH322-87E11 2R	6729214	6750214	located_end	6729214
	estimated_end	6750214		
CH322-87E12 2L	18235157	18256157	estimated_end	18235157
	located_end	18256157		
CH322-87E13 3L	7822467	7843467	located_end	7822467
	estimated_end	7843467		
CH322-87E14 3L	11640230	11661230	estimated_end	11640230
	located_end	11661230		
CH322-87E15 3L	12041819	12062819	estimated_end	12041819
	located_end	12062819		
CH322-87E16 3R	14477733	14498733	located_end	14477733
	estimated_end	14498733		
CH322-87E17 2L	17531647	17552647	estimated_end	17531647
	located_end	17552647		
CH322-87E19 3L	23230437	23251437	estimated_end	23230437
	located_end	23251437		
CH322-87E20 2R	13466590	13487590	located_end	13466590
	estimated_end	13487590		
CH322-87E21 2R	15421248	15442248	estimated_end	15421248
	located_end	15442248		
CH322-87E22 2R	6309568	6330568	estimated_end	6309568
	located_end	6330568		
CH322-87E23 2R	18431090	18452090	located_end	18431090
	estimated_end	18452090		
CH322-87E24 2L	12487103	12508103	located_end	12487103
	estimated_end	12508103		
CH322-87F01 2L	19601808	19622808	estimated_end	19601808
	located_end	19622808		
CH322-87F02 3R	1703552	1724552	estimated_end	1703552
	located_end	1724552		
CH322-87F03 3R	22102547	22123547	located_end	22102547
	estimated_end	22123547		
CH322-87F04 2L	771380	792380	estimated_end	771380
	located_end	792380		
CH322-87F05 X	981796	1002796	estimated_end	981796
	located_end	1002796		

CH322-87F06 3L	9741268	9762268	estimated_end	9741268
	located_end	9762268		
CH322-87F07 3R	16797948	16818948	estimated_end	16797948
	located_end	16818948		
CH322-87F08 3L	3787047	3808047	located_end	3787047
	estimated_end	3808047		
CH322-87F09 2R	10437175	10458175	located_end	10437175
	estimated_end	10458175		
CH322-87F10 3L	18511727	18532727	estimated_end	18511727
	located_end	18532727		
CH322-87F11 X	14171360	14192360	estimated_end	14171360
	located_end	14192360		
CH322-87F12 3R	20967878	20988878	located_end	20967878
	estimated_end	20988878		
CH322-87F13 2R	3721443	3742443	estimated_end	3721443
	located_end	3742443		
CH322-87F16 2L	22963327	22984327	located_end	22963327
	estimated_end	22984327		
CH322-87F18 X	9016942	9037942	located_end	9016942
	estimated_end	9037942		
CH322-87F19 2L	1178032	1199032	located_end	1178032
	estimated_end	1199032		
CH322-87F20 X	18724374	18745374	estimated_end	18724374
	located_end	18745374		
CH322-87F21 3R	1252752	1273752	located_end	1252752
	estimated_end	1273752		
CH322-87F22 3L	20801248	20822248	located_end	20801248
	estimated_end	20822248		
CH322-87F23 3L	7276831	7297831	located_end	7276831
	estimated_end	7297831		
CH322-87F24 2R	15680202	15701202	estimated_end	15680202
	located_end	15701202		
CH322-87G02 2R	8615962	8636962	located_end	8615962
	estimated_end	8636962		
CH322-87G03 3L	21900976	21921976	located_end	21900976
	estimated_end	21921976		
CH322-87G04 3R	15235263	15256263	estimated_end	15235263
	located_end	15256263		
CH322-87G05 2L	2630438	2651438	located_end	2630438
	estimated_end	2651438		
CH322-87G06 3R	21087061	21108061	estimated_end	21087061
	located_end	21108061		
CH322-87G07 3L	14980651	15001651	estimated_end	14980651
	located_end	15001651		
CH322-87G09 2L	15068057	15089057	estimated_end	15068057
	located_end	15089057		
CH322-87G10 2L	13936459	13957459	located_end	13936459
	estimated_end	13957459		
CH322-87G11 3R	8826813	8847813	estimated_end	8826813
	located_end	8847813		
CH322-87G12 3R	16502180	16523180	located_end	16502180
	estimated_end	16523180		
CH322-87G15 3L	14910296	14931296	located_end	14910296
	estimated_end	14931296		

CH322-87G16 2R	15562340	15583340	estimated_end	15562340
	located_end	15583340		
CH322-87G17 3R	27892632	27913632	located_end	27892632
	estimated_end	27913632		
CH322-87G18 2L	20334016	20355016	estimated_end	20334016
	located_end	20355016		
CH322-87G19 2R	14549958	14570958	estimated_end	14549958
	located_end	14570958		
CH322-87G20 3L	2802668	2823668	located_end	2802668
	estimated_end	2823668		
CH322-87G21 X	1432803	1453803	estimated_end	1432803
	located_end	1453803		
CH322-87G23 3R	4783451	4804451	estimated_end	4783451
	located_end	4804451		
CH322-87H02 X	17470895	17491895	estimated_end	17470895
	located_end	17491895		
CH322-87H03 X	417921	438921	estimated_end	417921
	located_end	438921		
CH322-87H04 3R	7455079	7476079	located_end	7455079
	estimated_end	7476079		
CH322-87H05 2L	8112104	8133104	located_end	8112104
	estimated_end	8133104		
CH322-87H07 2L	21304725	21325725	estimated_end	21304725
	located_end	21325725		
CH322-87H08 3R	25262730	25283730	located_end	25262730
	estimated_end	25283730		
CH322-87H09 3R	8192358	8213358	located_end	8192358
	estimated_end	8213358		
CH322-87H10 3L	18329240	18350240	estimated_end	18329240
	located_end	18350240		
CH322-87H11 3L	5270744	5291744	estimated_end	5270744
	located_end	5291744		
CH322-87H12 3R	8805159	8826159	estimated_end	8805159
	located_end	8826159		
CH322-87H14 3R	21333030	21354030	located_end	21333030
	estimated_end	21354030		
CH322-87H15 3R	9401165	9422165	located_end	9401165
	estimated_end	9422165		
CH322-87H16 3R	20795188	20816188	located_end	20795188
	estimated_end	20816188		
CH322-87H17 3R	22564343	22585343	estimated_end	22564343
	located_end	22585343		
CH322-87H18 X	15059935	15080935	located_end	15059935
	estimated_end	15080935		
CH322-87H19 X	18995321	19016321	estimated_end	18995321
	located_end	19016321		
CH322-87H24 3R	17790723	17811723	located_end	17790723
	estimated_end	17811723		
CH322-87I01 3R	22058965	22079965	located_end	22058965
	estimated_end	22079965		
CH322-87I02 2L	15267856	15288856	estimated_end	15267856
	located_end	15288856		
CH322-87I06 3R	4927418	4948418	located_end	4927418
	estimated_end	4948418		

CH322-87I08 X	14524546	14545546	estimated_end	14524546
	located_end	14545546		
CH322-87I09 X	17939322	17960322	estimated_end	17939322
	located_end	17960322		
CH322-87I10 3L	15320626	15341626	located_end	15320626
	estimated_end	15341626		
CH322-87I11 2L	22579487	22600487	estimated_end	22579487
	located_end	22600487		
CH322-87I12 3R	14137106	14158106	located_end	14137106
	estimated_end	14158106		
CH322-87I14 3L	1470214	1491214	estimated_end	1470214
	located_end	1491214		
CH322-87I15 2L	13476681	13497681	located_end	13476681
	estimated_end	13497681		
CH322-87I17 3L	3075867	3096867	estimated_end	3075867
	located_end	3096867		
CH322-87I19 2R	10161605	10182605	located_end	10161605
	estimated_end	10182605		
CH322-87I20 X	6019396	6040396	estimated_end	6019396
	located_end	6040396		
CH322-87I21 3L	18470094	18491094	estimated_end	18470094
	located_end	18491094		
CH322-87I22 3R	7546545	7567545	located_end	7546545
	estimated_end	7567545		
CH322-87I23 3R	16597299	16618299	estimated_end	16597299
	located_end	16618299		
CH322-87J02 2L	576796	597796	estimated_end	576796
	located_end	597796		
CH322-87J05 2R	15503334	15524334	estimated_end	15503334
	located_end	15524334		
CH322-87J06 3L	16282945	16303945	estimated_end	16282945
	located_end	16303945		
CH322-87J08 3R	23167759	23188759	estimated_end	23167759
	located_end	23188759		
CH322-87J10 3R	23167759	23188759	estimated_end	23167759
	located_end	23188759		
CH322-87J11 3R	18459384	18480384	estimated_end	18459384
	located_end	18480384		
CH322-87J12 2L	19959549	19980549	located_end	19959549
	estimated_end	19980549		
CH322-87J13 2L	10176109	10197109	estimated_end	10176109
	located_end	10197109		
CH322-87J14 3R	21792475	21813475	estimated_end	21792475
	located_end	21813475		
CH322-87J15 3L	17914423	17935423	estimated_end	17914423
	located_end	17935423		
CH322-87J16 2R	19180567	19201567	located_end	19180567
	estimated_end	19201567		
CH322-87J17 2R	16314643	16335643	estimated_end	16314643
	located_end	16335643		
CH322-87J18 2R	17845980	17866980	estimated_end	17845980
	located_end	17866980		
CH322-87J19 2R	5193640	5214640	estimated_end	5193640
	located_end	5214640		

CH322-87J20 2R	1718246	1739246	estimated_end	1718246
	located_end	1739246		
CH322-87J21 2R	14798295	14819295	located_end	14798295
	estimated_end	14819295		
CH322-87J22 3L	10945113	10966113	estimated_end	10945113
	located_end	10966113		
CH322-87J23 3L	2400558	2421558	located_end	2400558
	estimated_end	2421558		
CH322-87J24 X	18506018	18527018	located_end	18506018
	estimated_end	18527018		
CH322-87K02 3R	5089910	5110910	estimated_end	5089910
	located_end	5110910		
CH322-87K03 2L	14715923	14736923	located_end	14715923
	estimated_end	14736923		
CH322-87K04 3L	7970587	7991587	estimated_end	7970587
	located_end	7991587		
CH322-87K06 X	3170639	3191639	located_end	3170639
	estimated_end	3191639		
CH322-87K08 3L	9053257	9074257	located_end	9053257
	estimated_end	9074257		
CH322-87K09 3R	11818772	11839772	estimated_end	11818772
	located_end	11839772		
CH322-87K12 3R	11820197	11841197	located_end	11820197
	estimated_end	11841197		
CH322-87K13 3R	8505476	8526476	located_end	8505476
	estimated_end	8526476		
CH322-87K14 2R	7495608	7516608	located_end	7495608
	estimated_end	7516608		
CH322-87K16 2L	11620598	11641598	located_end	11620598
	estimated_end	11641598		
CH322-87K17 X	3432803	3453803	estimated_end	3432803
	located_end	3453803		
CH322-87K18 3L	3057497	3078497	located_end	3057497
	estimated_end	3078497		
CH322-87K19 2R	5386422	5407422	located_end	5386422
	estimated_end	5407422		
CH322-87K21 3L	6859396	6880396	estimated_end	6859396
	located_end	6880396		
CH322-87K22 X	15022363	15043363	estimated_end	15022363
	located_end	15043363		
CH322-87K24 3L	7786602	7807602	estimated_end	7786602
	located_end	7807602		
CH322-87L01 ArmU	9997155	10018155	located_end	9997155
	estimated_end	10018155		
CH322-87L02 2L	11908190	11929190	estimated_end	11908190
	located_end	11929190		
CH322-87L03 3L	17702870	17723870	located_end	17702870
	estimated_end	17723870		
CH322-87L04 X	3569140	3590140	estimated_end	3569140
	located_end	3590140		
CH322-87L05 X	4697648	4718648	located_end	4697648
	estimated_end	4718648		
CH322-87L06 3L	9032622	9053622	estimated_end	9032622
	located_end	9053622		

CH322-87L07 3L	22898691	22919691	located_end 22898691
	estimated_end	22919691	
CH322-87L08 3L	7583815	7604815	located_end 7583815
	estimated_end	7604815	
CH322-87L09 3L	22324751	22345751	estimated_end 22324751
	located_end	22345751	
CH322-87L10 X	9306843	9327843	located_end 9306843
	estimated_end	9327843	
CH322-87L11 X	10197229	10218229	located_end 10197229
	estimated_end	10218229	
CH322-87L12 2L	915436	936436	located_end 915436
	estimated_end	936436	
CH322-87L15 3R	6199455	6220455	estimated_end 6199455
	located_end	6220455	
CH322-87L16 3L	6611236	6632236	located_end 6611236
	estimated_end	6632236	
CH322-87L17 3R	11975881	11996881	estimated_end 11975881
	located_end	11996881	
CH322-87L18 3R	8386784	8407784	located_end 8386784
	estimated_end	8407784	
CH322-87L19 3L	17599204	17620204	located_end 17599204
	estimated_end	17620204	
CH322-87L21 X	1583257	1604257	located_end 1583257
	estimated_end	1604257	
CH322-87L22 3L	21798525	21819525	estimated_end 21798525
	located_end	21819525	
CH322-87L23 3L	13386834	13407834	estimated_end 13386834
	located_end	13407834	
CH322-87M02 3R	11833306	11854306	located_end 11833306
	estimated_end	11854306	
CH322-87M03 2R	9849516	9870516	estimated_end 9849516
	located_end	9870516	
CH322-87M05 X	8707246	8728246	located_end 8707246
	estimated_end	8728246	
CH322-87M06 3R	13270943	13291943	located_end 13270943
	estimated_end	13291943	
CH322-87M07 2R	10788578	10809578	located_end 10788578
	estimated_end	10809578	
CH322-87M08 X	21803600	21824600	located_end 21803600
	estimated_end	21824600	
CH322-87M09 3L	19363188	19384188	located_end 19363188
	estimated_end	19384188	
CH322-87M10 3L	17127635	17148635	located_end 17127635
	estimated_end	17148635	
CH322-87M12 2R	17868851	17889851	estimated_end 17868851
	located_end	17889851	
CH322-87M13 2L	8299422	8320422	located_end 8299422
	estimated_end	8320422	
CH322-87M14 3R	7001558	7022558	estimated_end 7001558
	located_end	7022558	
CH322-87M15 3R	19553555	19574555	estimated_end 19553555
	located_end	19574555	
CH322-87M16 2R	5338671	5359671	estimated_end 5338671
	located_end	5359671	

CH322-87M17 2L	16005236	16026236	estimated_end	16005236
	located_end	16026236		
CH322-87M18 2L	15295188	15316188	estimated_end	15295188
	located_end	15316188		
CH322-87M19 3L	4009006	4030006	located_end	4009006
	estimated_end	4030006		
CH322-87M20 X	4114644	4135644	estimated_end	4114644
	located_end	4135644		
CH322-87M21 3L	4402422	4423422	located_end	4402422
	estimated_end	4423422		
CH322-87M22 X	9624637	9645637	located_end	9624637
	estimated_end	9645637		
CH322-87M23 3L	11850435	11871435	located_end	11850435
	estimated_end	11871435		
CH322-87N01 3R	14960786	14981786	estimated_end	14960786
	located_end	14981786		
CH322-87N03 X	16969575	16990575	located_end	16969575
	estimated_end	16990575		
CH322-87N04 3R	24192786	24213786	located_end	24192786
	estimated_end	24213786		
CH322-87N05 2LHet	225439	246439	estimated_end	225439
	located_end	246439		
CH322-87N06 3R	5842810	5863810	estimated_end	5842810
	located_end	5863810		
CH322-87N07 3R	21676007	21697007	located_end	21676007
	estimated_end	21697007		
CH322-87N08 2L	21271684	21292684	estimated_end	21271684
	located_end	21292684		
CH322-87N09 3R	26481009	26502009	located_end	26481009
	estimated_end	26502009		
CH322-87N12 X	2456277	2477277	located_end	2456277
	estimated_end	2477277		
CH322-87N13 2L	4794459	4815459	estimated_end	4794459
	located_end	4815459		
CH322-87N14 2L	13541322	13562322	located_end	13541322
	estimated_end	13562322		
CH322-87N15 3L	17767077	17788077	located_end	17767077
	estimated_end	17788077		
CH322-87N17 2L	11808299	11829299	located_end	11808299
	estimated_end	11829299		
CH322-87N18 3LHet	854599	875599	estimated_end	854599
	located_end	875599		
CH322-87N19 2L	19226552	19247552	estimated_end	19226552
	located_end	19247552		
CH322-87N20 2L	17786504	17807504	estimated_end	17786504
	located_end	17807504		
CH322-87N21 2L	11803851	11824851	located_end	11803851
	estimated_end	11824851		
CH322-87N23 3R	7151861	7172861	located_end	7151861
	estimated_end	7172861		
CH322-87N24 2RHet	3182148	3203148	located_end	3182148
	estimated_end	3203148		
CH322-87O01 3R	6153939	6174939	located_end	6153939
	estimated_end	6174939		

CH322-87O03 3R	14702734	14723734	located_end	14702734
	estimated_end	14723734		
CH322-87O04 2R	12590286	12611286	estimated_end	12590286
	located_end	12611286		
CH322-87O05 X	10450234	10471234	located_end	10450234
	estimated_end	10471234		
CH322-87O06 3L	19523963	19544963	located_end	19523963
	estimated_end	19544963		
CH322-87O07 X	7117764	7138764	estimated_end	7117764
	located_end	7138764		
CH322-87O08 2RHet	1340481	1361481	estimated_end	1340481
	located_end	1361481		
CH322-87O09 2L	20814196	20835196	located_end	20814196
	estimated_end	20835196		
CH322-87O10 ArmU	3426997	3447997	located_end	3426997
	estimated_end	3447997		
CH322-87O13 2L	15129537	15150537	located_end	15129537
	estimated_end	15150537		
CH322-87O14 3R	14665632	14686632	located_end	14665632
	estimated_end	14686632		
CH322-87O15 3R	661177	682177	estimated_end	661177
	located_end	682177		
CH322-87O16 X	13919929	13940929	located_end	13919929
	estimated_end	13940929		
CH322-87O17 3L	13060429	13081429	located_end	13060429
	estimated_end	13081429		
CH322-87O18 2L	1178032	1199032	located_end	1178032
	estimated_end	1199032		
CH322-87O20 2L	13936459	13957459	located_end	13936459
	estimated_end	13957459		
CH322-87O21 3R	12020565	12041565	estimated_end	12020565
	located_end	12041565		
CH322-87O22 2L	5283684	5304684	estimated_end	5283684
	located_end	5304684		
CH322-87O23 3L	19885000	19906000	estimated_end	19885000
	located_end	19906000		
CH322-87P01 3R	19076979	19097979	estimated_end	19076979
	located_end	19097979		
CH322-87P02 2L	6345120	6366120	located_end	6345120
	estimated_end	6366120		
CH322-87P03 3R	11981184	12002184	located_end	11981184
	estimated_end	12002184		
CH322-87P05 3R	4691132	4712132	estimated_end	4691132
	located_end	4712132		
CH322-87P06 3L	3290402	3311402	located_end	3290402
	estimated_end	3311402		
CH322-87P08 3L	24221848	24242848	located_end	24221848
	estimated_end	24242848		
CH322-87P09 2L	1468200	1489200	located_end	1468200
	estimated_end	1489200		
CH322-87P11 2L	1084792	1105792	estimated_end	1084792
	located_end	1105792		
CH322-87P12 3R	14246473	14267473	located_end	14246473
	estimated_end	14267473		

CH322-87P14 3R	21928796	21949796	located_end	21928796
	estimated_end	21949796		
CH322-87P15 3R	3075794	3096794	estimated_end	3075794
	located_end	3096794		
CH322-87P16 X	6468963	6489963	estimated_end	6468963
	located_end	6489963		
CH322-87P17 3R	10529872	10550872	estimated_end	10529872
	located_end	10550872		
CH322-87P19 2R	9559777	9580777	estimated_end	9559777
	located_end	9580777		
CH322-87P20 3R	26428557	26449557	estimated_end	26428557
	located_end	26449557		
CH322-87P22 3R	11581764	11602764	located_end	11581764
	estimated_end	11602764		
CH322-87P23 2R	4808776	4829776	estimated_end	4808776
	located_end	4829776		
CH322-88A02 3R	14376618	14397618	estimated_end	14376618
	located_end	14397618		
CH322-88A03 3R	5159597	5180597	estimated_end	5159597
	located_end	5180597		
CH322-88A06 3R	15213842	15234842	estimated_end	15213842
	located_end	15234842		
CH322-88A07 3L	15729068	15750068	estimated_end	15729068
	located_end	15750068		
CH322-88A08 3R	15945127	15966127	estimated_end	15945127
	located_end	15966127		
CH322-88A09 3R	9423507	9444507	located_end	9423507
	estimated_end	9444507		
CH322-88A13 3L	21516139	21537139	estimated_end	21516139
	located_end	21537139		
CH322-88A14 3R	17469806	17490806	estimated_end	17469806
	located_end	17490806		
CH322-88A15 2R	8747562	8768562	estimated_end	8747562
	located_end	8768562		
CH322-88A16 3R	24212212	24233212	located_end	24212212
	estimated_end	24233212		
CH322-88A17 2R	17648203	17669203	located_end	17648203
	estimated_end	17669203		
CH322-88A21 3R	18465144	18486144	located_end	18465144
	estimated_end	18486144		
CH322-88A22 3L	21743862	21764862	estimated_end	21743862
	located_end	21764862		
CH322-88B01 4	433817	454817	located_end	433817
	estimated_end	454817		
CH322-88B03 3R	10303863	10324863	estimated_end	10303863
	located_end	10324863		
CH322-88B06 3R	6110277	6131277	estimated_end	6110277
	located_end	6131277		
CH322-88B09 X	3582237	3603237	estimated_end	3582237
	located_end	3603237		
CH322-88B10 3R	1309884	1330884	estimated_end	1309884
	located_end	1330884		
CH322-88B12 3R	11819153	11840153	located_end	11819153
	estimated_end	11840153		

CH322-88B14 3L	19399287	19420287	estimated_end	19399287
	located_end	19420287		
CH322-88B15 3RHet	259659	280659	estimated_end	259659
	located_end	280659		
CH322-88B19 3L	9376978	9397978	estimated_end	9376978
	located_end	9397978		
CH322-88B20 3R	19185296	19206296	estimated_end	19185296
	located_end	19206296		
CH322-88B22 2L	10516887	10537887	located_end	10516887
	estimated_end	10537887		
CH322-88B24 3L	17172367	17193367	estimated_end	17172367
	located_end	17193367		
CH322-88C01 3R	11260652	11281652	estimated_end	11260652
	located_end	11281652		
CH322-88C02 3L	14861553	14882553	estimated_end	14861553
	located_end	14882553		
CH322-88C06 2L	9849776	9870776	estimated_end	9849776
	located_end	9870776		
CH322-88C11 2L	12495593	12516593	estimated_end	12495593
	located_end	12516593		
CH322-88C13 X	11636424	11657424	estimated_end	11636424
	located_end	11657424		
CH322-88C14 3L	18430287	18451287	located_end	18430287
	estimated_end	18451287		
CH322-88C17 2R	3078426	3099426	located_end	3078426
	estimated_end	3099426		
CH322-88C18 2R	10096209	10117209	located_end	10096209
	estimated_end	10117209		
CH322-88C19 3L	22850555	22871555	estimated_end	22850555
	located_end	22871555		
CH322-88C20 2L	12372869	12393869	estimated_end	12372869
	located_end	12393869		
CH322-88C21 2R	20085842	20106842	located_end	20085842
	estimated_end	20106842		
CH322-88C22 3L	20523803	20544803	located_end	20523803
	estimated_end	20544803		
CH322-88C23 3R	14605343	14626343	located_end	14605343
	estimated_end	14626343		
CH322-88C24 3L	11580533	11601533	located_end	11580533
	estimated_end	11601533		
CH322-88D01 X	6790335	6811335	located_end	6790335
	estimated_end	6811335		
CH322-88D02 2RHet	731505	752505	estimated_end	731505
	located_end	752505		
CH322-88D03 2L	6795572	6816572	estimated_end	6795572
	located_end	6816572		
CH322-88D05 3L	12239421	12260421	estimated_end	12239421
	located_end	12260421		
CH322-88D06 3L	18633627	18654627	estimated_end	18633627
	located_end	18654627		
CH322-88D10 3R	19257376	19278376	located_end	19257376
	estimated_end	19278376		
CH322-88D11 2R	13199403	13220403	estimated_end	13199403
	located_end	13220403		

CH322-88D13 X	2927547	2948547	located_end	2927547
	estimated_end	2948547		
CH322-88D14 ArmU	544268	565268	estimated_end	544268
	located_end	565268		
CH322-88D17 2L	22115661	22136661	located_end	22115661
	estimated_end	22136661		
CH322-88D20 2L	7163301	7184301	located_end	7163301
	estimated_end	7184301		
CH322-88D23 2L	5806949	5827949	located_end	5806949
	estimated_end	5827949		
CH322-88D24 3R	15315445	15336445	located_end	15315445
	estimated_end	15336445		
CH322-88E10 2L	13426830	13447830	estimated_end	13426830
	located_end	13447830		
CH322-88E11 2R	9779501	9800501	located_end	9779501
	estimated_end	9800501		
CH322-88E14 X	8869706	8890706	estimated_end	8869706
	located_end	8890706		
CH322-88E17 2L	3959340	3980340	located_end	3959340
	estimated_end	3980340		
CH322-88E19 3L	20685892	20706892	estimated_end	20685892
	located_end	20706892		
CH322-88E20 3R	9771706	9792706	located_end	9771706
	estimated_end	9792706		
CH322-88E23 2L	13309294	13330294	estimated_end	13309294
	located_end	13330294		
CH322-88E24 2RHet	1237351	1258351	estimated_end	1237351
	located_end	1258351		
CH322-88F02 2R	6383612	6404612	estimated_end	6383612
	located_end	6404612		
CH322-88F03 X	2157702	2178702	located_end	2157702
	estimated_end	2178702		
CH322-88F05 3LHet	1617053	1638053	estimated_end	1617053
	located_end	1638053		
CH322-88F06 3L	14213290	14234290	located_end	14213290
	estimated_end	14234290		
CH322-88F09 3L	22092086	22113086	estimated_end	22092086
	located_end	22113086		
CH322-88F10 3R	1936328	1957328	estimated_end	1936328
	located_end	1957328		
CH322-88F11 3R	19605286	19626286	located_end	19605286
	estimated_end	19626286		
CH322-88F13 2L	10703796	10724796	located_end	10703796
	estimated_end	10724796		
CH322-88F18 3R	18639669	18660669	estimated_end	18639669
	located_end	18660669		
CH322-88F20 X	20876908	20897908	estimated_end	20876908
	located_end	20897908		
CH322-88F23 3R	19654445	19675445	estimated_end	19654445
	located_end	19675445		
CH322-88F24 2R	12499423	12520423	located_end	12499423
	estimated_end	12520423		
CH322-88G03 2R	13880327	13901327	located_end	13880327
	estimated_end	13901327		

CH322-88G04 2R	20291347	20312347	estimated_end	20291347
	located_end	20312347		
CH322-88G05 2L	2610514	2631514	located_end	2610514
	estimated_end	2631514		
CH322-88G06 2R	11567562	11588562	located_end	11567562
	estimated_end	11588562		
CH322-88G07 2R	6324447	6345447	located_end	6324447
	estimated_end	6345447		
CH322-88G10 3R	7649888	7670888	located_end	7649888
	estimated_end	7670888		
CH322-88G11 3R	21655422	21676422	located_end	21655422
	estimated_end	21676422		
CH322-88G15 2R	10010459	10031459	located_end	10010459
	estimated_end	10031459		
CH322-88G19 X	18316871	18337871	estimated_end	18316871
	located_end	18337871		
CH322-88G20 2R	8961636	8982636	estimated_end	8961636
	located_end	8982636		
CH322-88G21 3R	15966002	15987002	located_end	15966002
	estimated_end	15987002		
CH322-88G23 2L	8156405	8177405	estimated_end	8156405
	located_end	8177405		
CH322-88H02 3L	19614781	19635781	estimated_end	19614781
	located_end	19635781		
CH322-88H03 3R	15965741	15986741	located_end	15965741
	estimated_end	15986741		
CH322-88H05 3R	7935248	7956248	located_end	7935248
	estimated_end	7956248		
CH322-88H06 X	15417043	15438043	estimated_end	15417043
	located_end	15438043		
CH322-88H10 3L	17451452	17472452	estimated_end	17451452
	located_end	17472452		
CH322-88H18 2L	4080338	4101338	estimated_end	4080338
	located_end	4101338		
CH322-88H20 3R	11647822	11668822	estimated_end	11647822
	located_end	11668822		
CH322-88H23 2R	7108223	7129223	located_end	7108223
	estimated_end	7129223		
CH322-88H24 3R	27183598	27204598	estimated_end	27183598
	located_end	27204598		
CH322-88I05 3R	7417956	7438956	located_end	7417956
	estimated_end	7438956		
CH322-88I11 2L	11525676	11546676	located_end	11525676
	estimated_end	11546676		
CH322-88I12 2R	10598706	10619706	estimated_end	10598706
	located_end	10619706		
CH322-88I14 2R	8518371	8539371	located_end	8518371
	estimated_end	8539371		
CH322-88I15 3L	16220220	16241220	located_end	16220220
	estimated_end	16241220		
CH322-88I16 3L	4324162	4345162	located_end	4324162
	estimated_end	4345162		
CH322-88I19 2R	7350493	7371493	located_end	7350493
	estimated_end	7371493		

CH322-88I21 3R	12667631	12688631	located_end	12667631
	estimated_end	12688631		
CH322-88I22 X	14011117	14032117	estimated_end	14011117
	located_end	14032117		
CH322-88I23 2R	20877010	20898010	estimated_end	20877010
	located_end	20898010		
CH322-88I24 2L	9306931	9327931	estimated_end	9306931
	located_end	9327931		
CH322-88J01 3R	13127179	13148179	located_end	13127179
	estimated_end	13148179		
CH322-88J02 X	19310205	19331205	estimated_end	19310205
	located_end	19331205		
CH322-88J05 2R	8599725	8620725	estimated_end	8599725
	located_end	8620725		
CH322-88J07 X	8626747	8647747	estimated_end	8626747
	located_end	8647747		
CH322-88J11 X	17874776	17895776	located_end	17874776
	estimated_end	17895776		
CH322-88J14 2R	10523727	10544727	located_end	10523727
	estimated_end	10544727		
CH322-88J15 2L	20390107	20411107	located_end	20390107
	estimated_end	20411107		
CH322-88J16 3R	14453234	14474234	located_end	14453234
	estimated_end	14474234		
CH322-88J17 3R	19440316	19461316	estimated_end	19440316
	located_end	19461316		
CH322-88J21 2L	3848743	3869743	estimated_end	3848743
	located_end	3869743		
CH322-88J23 X	21158819	21179819	estimated_end	21158819
	located_end	21179819		
CH322-88J24 2R	11430611	11451611	located_end	11430611
	estimated_end	11451611		
CH322-88K01 ArmU	517783	538783	located_end	517783
	estimated_end	538783		
CH322-88K05 X	18219171	18240171	located_end	18219171
	estimated_end	18240171		
CH322-88K07 3R	2006964	2027964	estimated_end	2006964
	located_end	2027964		
CH322-88K11 X	8928661	8949661	estimated_end	8928661
	located_end	8949661		
CH322-88K15 3L	4654584	4675584	estimated_end	4654584
	located_end	4675584		
CH322-88K17 2R	253576	274576	estimated_end	253576
	located_end	274576		
CH322-88L01 2L	5837592	5858592	estimated_end	5837592
	located_end	5858592		
CH322-88L02 2L	19509205	19530205	located_end	19509205
	estimated_end	19530205		
CH322-88L04 3L	2611554	2632554	located_end	2611554
	estimated_end	2632554		
CH322-88L09 3R	451491	472491	estimated_end	451491
	located_end	472491		
CH322-88L14 3L	12289887	12310887	estimated_end	12289887
	located_end	12310887		

CH322-88L15 2R	13497537	13518537	located_end	13497537
	estimated_end	13518537		
CH322-88L18 3R	20787474	20808474	estimated_end	20787474
	located_end	20808474		
CH322-88L21 3L	19832507	19853507	estimated_end	19832507
	located_end	19853507		
CH322-88M03 X	17188072	17209072	estimated_end	17188072
	located_end	17209072		
CH322-88M04 3R	20031915	20052915	located_end	20031915
	estimated_end	20052915		
CH322-88M15 2R	19529164	19550164	estimated_end	19529164
	located_end	19550164		
CH322-88M16 3L	2151573	2172573	estimated_end	2151573
	located_end	2172573		
CH322-88M17 3L	8416522	8437522	estimated_end	8416522
	located_end	8437522		
CH322-88M18 X	10179923	10200923	located_end	10179923
	estimated_end	10200923		
CH322-88M21 3L	13757991	13778991	located_end	13757991
	estimated_end	13778991		
CH322-88M22 3R	26817267	26838267	estimated_end	26817267
	located_end	26838267		
CH322-88M24 X	7683884	7704884	estimated_end	7683884
	located_end	7704884		
CH322-88N02 3R	6090430	6111430	located_end	6090430
	estimated_end	6111430		
CH322-88N03 3R	26984438	27005438	located_end	26984438
	estimated_end	27005438		
CH322-88N05 2L	10742722	10763722	located_end	10742722
	estimated_end	10763722		
CH322-88N06 3R	27446650	27467650	located_end	27446650
	estimated_end	27467650		
CH322-88N09 3R	27679924	27700924	estimated_end	27679924
	located_end	27700924		
CH322-88N17 2L	11753258	11774258	located_end	11753258
	estimated_end	11774258		
CH322-88N22 3R	4677158	4698158	located_end	4677158
	estimated_end	4698158		
CH322-88O01 2R	1123676	1144676	estimated_end	1123676
	located_end	1144676		
CH322-88O02 X	15348147	15369147	located_end	15348147
	estimated_end	15369147		
CH322-88O03 3L	15131083	15152083	estimated_end	15131083
	located_end	15152083		
CH322-88O05 2L	15815758	15836758	estimated_end	15815758
	located_end	15836758		
CH322-88O06 2R	20089015	20110015	located_end	20089015
	estimated_end	20110015		
CH322-88O09 2L	21863690	21884690	located_end	21863690
	estimated_end	21884690		
CH322-88P01 2R	1162857	1183857	estimated_end	1162857
	located_end	1183857		
CH322-88P03 2R	6956602	6977602	located_end	6956602
	estimated_end	6977602		

CH322-88P04 3R	606640	627640	located_end	606640
	estimated_end	627640		
CH322-88P05 3L	13436472	13457472	located_end	13436472
	estimated_end	13457472		
CH322-88P09 2R	19661256	19682256	located_end	19661256
	estimated_end	19682256		
CH322-88P11 3R	4221676	4242676	estimated_end	4221676
	located_end	4242676		
CH322-88P13 X	14342727	14363727	located_end	14342727
	estimated_end	14363727		
CH322-88P15 X	16414599	16435599	estimated_end	16414599
	located_end	16435599		
CH322-88P16 2RHet	218319	239319	located_end	218319
	estimated_end	239319		
CH322-88P17 2L	21776435	21797435	estimated_end	21776435
	located_end	21797435		
CH322-88P18 X	12008800	12029800	located_end	12008800
	estimated_end	12029800		
CH322-89A01 3LHet	865161	886161	estimated_end	865161
	located_end	886161		
CH322-89A10 ArmU	9603345	9624345	estimated_end	9603345
	located_end	9624345		
CH322-89B03 2L	7544361	7565361	estimated_end	7544361
	located_end	7565361		
CH322-89B06 ArmU	3771595	3792595	estimated_end	3771595
	located_end	3792595		
CH322-89B11 3RHet	1515004	1536004	estimated_end	1515004
	located_end	1536004		
CH322-89B12 3R	6144087	6165087	located_end	6144087
	estimated_end	6165087		
CH322-89B15 3LHet	1221867	1242867	located_end	1221867
	estimated_end	1242867		
CH322-89B20 3L	5694520	5715520	estimated_end	5694520
	located_end	5715520		
CH322-89C09 ArmU	8840061	8861061	located_end	8840061
	estimated_end	8861061		
CH322-89C10 2L	3126485	3147485	located_end	3126485
	estimated_end	3147485		
CH322-89C14 2L	4324945	4345945	located_end	4324945
	estimated_end	4345945		
CH322-89C15 3R	10844928	10865928	located_end	10844928
	estimated_end	10865928		
CH322-89C16 X	3613489	3634489	estimated_end	3613489
	located_end	3634489		
CH322-89C23 XHet	83593	104593	located_end	83593
	104593		estimated_end	
CH322-89D03 X	20874894	20895894	estimated_end	20874894
	located_end	20895894		
CH322-89D06 3R	13731408	13752408	located_end	13731408
	estimated_end	13752408		
CH322-89D09 2R	6098275	6119275	located_end	6098275
	estimated_end	6119275		
CH322-89D13 3R	7146743	7167743	estimated_end	7146743
	located_end	7167743		

CH322-89D14 3LHet	1885235	1906235	located_end	1885235
	estimated_end	1906235		
CH322-89D16 3R	20833361	20854361	located_end	20833361
	estimated_end	20854361		
CH322-89D23 3L	5048981	5069981	estimated_end	5048981
	located_end	5069981		
CH322-89E10 X	9862820	9883820	estimated_end	9862820
	located_end	9883820		
CH322-89E14 2L	19370971	19391971	located_end	19370971
	estimated_end	19391971		
CH322-89E16 3R	23804504	23825504	estimated_end	23804504
	located_end	23825504		
CH322-89E18 2L	12982296	13003296	estimated_end	12982296
	located_end	13003296		
CH322-89F01 3L	23095838	23116838	located_end	23095838
	estimated_end	23116838		
CH322-89F07 2L	13256980	13277980	estimated_end	13256980
	located_end	13277980		
CH322-89F12 2L	10337403	10358403	estimated_end	10337403
	located_end	10358403		
CH322-89F15 3LHet	1929672	1950672	estimated_end	1929672
	located_end	1950672		
CH322-89F16 2L	7423711	7444711	estimated_end	7423711
	located_end	7444711		
CH322-89G05 2L	181029	202029	estimated_end	181029
	located_end	202029		
CH322-89G09 3R	19699545	19720545	located_end	19699545
	estimated_end	19720545		
CH322-89G13 2R	1345676	1366676	located_end	1345676
	estimated_end	1366676		
CH322-89G15 X	131571	152571	estimated_end	131571
	located_end	152571		
CH322-89G16 3R	1890517	1911517	located_end	1890517
	estimated_end	1911517		
CH322-89G17 X	14099601	14120601	located_end	14099601
	estimated_end	14120601		
CH322-89G19 ArmU	7521905	7542905	located_end	7521905
	estimated_end	7542905		
CH322-89G20 3R	2864012	2885012	estimated_end	2864012
	located_end	2885012		
CH322-89G22 ArmU	6908950	6929950	estimated_end	6908950
	located_end	6929950		
CH322-89H10 3L	17653908	17674908	estimated_end	17653908
	located_end	17674908		
CH322-89H14 3L	18481455	18502455	located_end	18481455
	estimated_end	18502455		
CH322-89H16 3R	485089	506089	estimated_end	485089
	located_end	506089		
CH322-89H19 3R	580004	601004	estimated_end	580004
	located_end	601004		
CH322-89H20 3L	19489639	19510639	located_end	19489639
	estimated_end	19510639		
CH322-89H23 2R	8709881	8730881	estimated_end	8709881
	located_end	8730881		

CH322-89I02 2R	9816079	9837079	estimated_end	9816079
	located_end	9837079		
CH322-89I08 ArmU	8332063	8353063	located_end	8332063
	estimated_end	8353063		
CH322-89I13 3R	9536379	9557379	estimated_end	9536379
	located_end	9557379		
CH322-89I14 2R	16700829	16721829	located_end	16700829
	estimated_end	16721829		
CH322-89I16 3L	2695106	2716106	estimated_end	2695106
	located_end	2716106		
CH322-89I17 X	6329688	6350688	estimated_end	6329688
	located_end	6350688		
CH322-89I20 X	17502701	17523701	located_end	17502701
	estimated_end	17523701		
CH322-89I21 2RHet	736308	757308	estimated_end	736308
	located_end	757308		
CH322-89I22 3L	11753456	11774456	located_end	11753456
	estimated_end	11774456		
CH322-89I23 3R	8355525	8376525	estimated_end	8355525
	located_end	8376525		
CH322-89J04 3R	9788471	9809471	located_end	9788471
	estimated_end	9809471		
CH322-89J08 2R	15658690	15679690	located_end	15658690
	estimated_end	15679690		
CH322-89J11 3R	6763560	6784560	located_end	6763560
	estimated_end	6784560		
CH322-89J13 2R	11681145	11702145	estimated_end	11681145
	located_end	11702145		
CH322-89J14 2L	3931013	3952013	located_end	3931013
	estimated_end	3952013		
CH322-89J15 3L	9652085	9673085	estimated_end	9652085
	located_end	9673085		
CH322-89J18 3R	24825378	24846378	located_end	24825378
	estimated_end	24846378		
CH322-89J19 X	20262325	20283325	estimated_end	20262325
	located_end	20283325		
CH322-89J21 2L	15974660	15995660	located_end	15974660
	estimated_end	15995660		
CH322-89J22 2L	5073822	5094822	located_end	5073822
	estimated_end	5094822		
CH322-89K11 2R	20410938	20431938	located_end	20410938
	estimated_end	20431938		
CH322-89K12 X	2880110	2901110	located_end	2880110
	estimated_end	2901110		
CH322-89K13 X	14855204	14876204	located_end	14855204
	estimated_end	14876204		
CH322-89K14 2L	20805804	20826804	estimated_end	20805804
	located_end	20826804		
CH322-89K16 X	12710781	12731781	estimated_end	12710781
	located_end	12731781		
CH322-89K19 3R	19588637	19609637	located_end	19588637
	estimated_end	19609637		
CH322-89K21 2RHet	117071	138071	estimated_end	117071
	located_end	138071		

CH322-89L08 2L	2090752	2111752	located_end	2090752
	estimated_end	2111752		
CH322-89L10 2RHet	417381	438381	estimated_end	417381
	located_end	438381		
CH322-89L12 3R	9214056	9235056	located_end	9214056
	estimated_end	9235056		
CH322-89L14 2R	17233241	17254241	estimated_end	17233241
	located_end	17254241		
CH322-89L16 2L	8383893	8404893	estimated_end	8383893
	located_end	8404893		
CH322-89L17 2R	7811651	7832651	estimated_end	7811651
	located_end	7832651		
CH322-89L20 3L	22419842	22440842	located_end	22419842
	estimated_end	22440842		
CH322-89M01 X	14870434	14891434	estimated_end	14870434
	located_end	14891434		
CH322-89M03 X	10885126	10906126	estimated_end	10885126
	located_end	10906126		
CH322-89M12 3R	25458446	25479446	located_end	25458446
	estimated_end	25479446		
CH322-89M20 2L	6079405	6100405	located_end	6079405
	estimated_end	6100405		
CH322-89M23 ArmU	9003354	9024354	estimated_end	9003354
	located_end	9024354		
CH322-89N10 3R	23597622	23618622	located_end	23597622
	estimated_end	23618622		
CH322-89N14 X	6649110	6670110	located_end	6649110
	estimated_end	6670110		
CH322-89N18 3R	17303246	17324246	estimated_end	17303246
	located_end	17324246		
CH322-89N21 X	11629391	11650391	located_end	11629391
	estimated_end	11650391		
CH322-89N23 2R	2145250	2166250	located_end	2145250
	estimated_end	2166250		
CH322-89O11 3L	4908822	4929822	estimated_end	4908822
	located_end	4929822		
CH322-89O14 2R	18248093	18269093	estimated_end	18248093
	located_end	18269093		
CH322-89P24 3L	13262107	13283107	located_end	13262107
	estimated_end	13283107		
CH322-90A03 3R	24185742	24206742	located_end	24185742
	estimated_end	24206742		
CH322-90A04 X	10324096	10345096	estimated_end	10324096
	located_end	10345096		
CH322-90A07 X	6734160	6755160	estimated_end	6734160
	located_end	6755160		
CH322-90A08 X	16910120	16931120	located_end	16910120
	estimated_end	16931120		
CH322-90A09 4	578632	599632	located_end	578632
	estimated_end	599632		
CH322-90A10 2R	4063276	4084276	estimated_end	4063276
	located_end	4084276		
CH322-90A12 3R	21752513	21773513	estimated_end	21752513
	located_end	21773513		

CH322-90A16 2L	4046051	4067051	located_end	4046051
	estimated_end	4067051		
CH322-90A20 3L	8666852	8687852	estimated_end	8666852
	located_end	8687852		
CH322-90B04 3R	10422249	10443249	estimated_end	10422249
	located_end	10443249		
CH322-90B06 3L	22573114	22594114	estimated_end	22573114
	located_end	22594114		
CH322-90B07 2R	19828604	19849604	estimated_end	19828604
	located_end	19849604		
CH322-90B10 3R	19139063	19160063	estimated_end	19139063
	located_end	19160063		
CH322-90B20 X	15054250	15075250	estimated_end	15054250
	located_end	15075250		
CH322-90C01 3R	18657477	18678477	estimated_end	18657477
	located_end	18678477		
CH322-90C07 3R	18095447	18116447	estimated_end	18095447
	located_end	18116447		
CH322-90C13 X	2665021	2686021	estimated_end	2665021
	located_end	2686021		
CH322-90D01 2R	8709881	8730881	estimated_end	8709881
	located_end	8730881		
CH322-90D02 2R	15657013	15678013	estimated_end	15657013
	located_end	15678013		
CH322-90E24 3LHet	1267845	1288845	located_end	1267845
	estimated_end	1288845		
CH322-90F05 2R	5596153	5617153	located_end	5596153
	estimated_end	5617153		
CH322-90F09 2L	20276735	20297735	estimated_end	20276735
	located_end	20297735		
CH322-90F11 2L	19687572	19708572	located_end	19687572
	estimated_end	19708572		
CH322-90F22 3R	23066704	23087704	located_end	23066704
	estimated_end	23087704		
CH322-90G01 3R	7653319	7674319	estimated_end	7653319
	located_end	7674319		
CH322-90G02 2LHet	6119	27119	estimated_end	6119
			located_end	27119
CH322-90G18 2LHet	287828	308828	located_end	287828
	estimated_end	308828		
CH322-90G19 3R	7671351	7692351	estimated_end	7671351
	located_end	7692351		
CH322-90G23 3L	801119	822119	located_end	801119
	estimated_end	822119		
CH322-90G24 3L	2379969	2400969	estimated_end	2379969
	located_end	2400969		
CH322-90H01 3L	3404847	3425847	located_end	3404847
	estimated_end	3425847		
CH322-90H10 ArmU	9775223	9796223	estimated_end	9775223
	located_end	9796223		
CH322-90H14 X	21024404	21045404	estimated_end	21024404
	located_end	21045404		
CH322-90H17 3L	10904531	10925531	estimated_end	10904531
	located_end	10925531		

CH322-90I01 2L	3651451	3672451	estimated_end	3651451
	located_end	3672451		
CH322-90I03 X	742998	763998	estimated_end	742998
	located_end	763998		
CH322-90I21 3L	2451895	2472895	estimated_end	2451895
	located_end	2472895		
CH322-90J04 3L	11133126	11154126	located_end	11133126
	estimated_end	11154126		
CH322-90J11 X	14311510	14332510	estimated_end	14311510
	located_end	14332510		
CH322-90J15 ArmU	10033792	10054792	located_end	10033792
	estimated_end	10054792		
CH322-90J22 3L	15155818	15176818	estimated_end	15155818
	located_end	15176818		
CH322-90K06 X	10500348	10521348	estimated_end	10500348
	located_end	10521348		
CH322-90K10 3L	13548094	13569094	located_end	13548094
	estimated_end	13569094		
CH322-90K14 X	11641395	11662395	estimated_end	11641395
	located_end	11662395		
CH322-90K17 3L	11901002	11922002	located_end	11901002
	estimated_end	11922002		
CH322-90K21 X	21099853	21120853	estimated_end	21099853
	located_end	21120853		
CH322-90K22 2R	18153716	18174716	located_end	18153716
	estimated_end	18174716		
CH322-90L01 3R	10424059	10445059	estimated_end	10424059
	located_end	10445059		
CH322-90L04 3L	2573052	2594052	located_end	2573052
	estimated_end	2594052		
CH322-90L05 2R	10882787	10903787	located_end	10882787
	estimated_end	10903787		
CH322-90L18 3R	15270331	15291331	estimated_end	15270331
	located_end	15291331		
CH322-90L23 3L	7907539	7928539	estimated_end	7907539
	located_end	7928539		
CH322-90M06 X	5393457	5414457	located_end	5393457
	estimated_end	5414457		
CH322-90M07 2L	11794211	11815211	estimated_end	11794211
	located_end	11815211		
CH322-90M09 2R	7488753	7509753	estimated_end	7488753
	located_end	7509753		
CH322-90M10 3L	1197885	1218885	located_end	1197885
	estimated_end	1218885		
CH322-90M19 3R	21344465	21365465	located_end	21344465
	estimated_end	21365465		
CH322-90N01 3L	5205099	5226099	located_end	5205099
	estimated_end	5226099		
CH322-90N02 2L	5253456	5274456	located_end	5253456
	estimated_end	5274456		
CH322-90N04 3R	23038972	23059972	estimated_end	23038972
	located_end	23059972		
CH322-90N06 X	10635109	10656109	located_end	10635109
	estimated_end	10656109		

CH322-90N07 3R	5654134	5675134	located_end	5654134
	estimated_end	5675134		
CH322-90N20 3L	7970589	7991589	estimated_end	7970589
	located_end	7991589		
CH322-90N22 3R	14105396	14126396	estimated_end	14105396
	located_end	14126396		
CH322-90O02 3R	18783059	18804059	located_end	18783059
	estimated_end	18804059		
CH322-90O03 2L	10947826	10968826	estimated_end	10947826
	located_end	10968826		
CH322-90O07 3R	12308544	12329544	estimated_end	12308544
	located_end	12329544		
CH322-90O10 2R	17319748	17340748	located_end	17319748
	estimated_end	17340748		
CH322-90O21 2R	6843109	6864109	located_end	6843109
	estimated_end	6864109		
CH322-90P05 2L	15386784	15407784	located_end	15386784
	estimated_end	15407784		
CH322-90P06 2L	16916539	16937539	estimated_end	16916539
	located_end	16937539		
CH322-90P08 3R	23794449	23815449	located_end	23794449
	estimated_end	23815449		
CH322-90P09 3L	22879017	22900017	located_end	22879017
	estimated_end	22900017		
CH322-90P10 3L	7602254	7623254	located_end	7602254
	estimated_end	7623254		
CH322-90P13 3R	27640037	27661037	located_end	27640037
	estimated_end	27661037		
CH322-90P16 3L	20104117	20125117	located_end	20104117
	estimated_end	20125117		
CH322-90P17 3L	16463137	16484137	estimated_end	16463137
	located_end	16484137		
CH322-91A03 3R	9982708	10003708	located_end	9982708
	estimated_end	10003708		
CH322-91A04 3R	9819004	9840004	estimated_end	9819004
	located_end	9840004		
CH322-91A06 3L	9703102	9724102	estimated_end	9703102
	located_end	9724102		
CH322-91A10 2L	11695774	11716774	located_end	11695774
	estimated_end	11716774		
CH322-91A15 2R	3642035	3663035	located_end	3642035
	estimated_end	3663035		
CH322-91A23 2L	20937873	20958873	estimated_end	20937873
	located_end	20958873		
CH322-91B01 X	3010277	3031277	located_end	3010277
	estimated_end	3031277		
CH322-91B02 3R	13191130	13212130	located_end	13191130
	estimated_end	13212130		
CH322-91B07 2RHet	379859	400859	estimated_end	379859
	located_end	400859		
CH322-91B13 3R	26535601	26556601	estimated_end	26535601
	located_end	26556601		
CH322-91B21 X	9171521	9192521	located_end	9171521
	estimated_end	9192521		

CH322-91B22 3R	2796911	2817911	estimated_end	2796911
	located_end	2817911		
CH322-91C13 3R	16712687	16733687	estimated_end	16712687
	located_end	16733687		
CH322-91C18 2R	10951678	10972678	located_end	10951678
	estimated_end	10972678		
CH322-91C21 ArmU	999891	1020891	estimated_end	999891
	located_end	1020891		
CH322-91C24 3R	18026807	18047807	estimated_end	18026807
	located_end	18047807		
CH322-91D04 X	21948304	21969304	located_end	21948304
	estimated_end	21969304		
CH322-91D05 3L	4204	25204	estimated_end	4204
			located_end	25204
CH322-91D24 3L	16621541	16642541	estimated_end	16621541
	located_end	16642541		
CH322-91E07 3R	14414313	14435313	located_end	14414313
	estimated_end	14435313		
CH322-91F05 3L	405417	426417	estimated_end	405417
	located_end	426417		
CH322-91G13 ArmU	9774959	9795959	estimated_end	9774959
	located_end	9795959		
CH322-91G14 2R	1482357	1503357	estimated_end	1482357
	located_end	1503357		
CH322-91G18 3LHet	947906	968906	located_end	947906
	estimated_end	968906		
CH322-91H04 2L	6883312	6904312	estimated_end	6883312
	located_end	6904312		
CH322-91H10 2L	17135631	17156631	estimated_end	17135631
	located_end	17156631		
CH322-91I07 3L	23356444	23377444	estimated_end	23356444
	located_end	23377444		
CH322-91I11 X	3112850	3133850	estimated_end	3112850
	located_end	3133850		
CH322-91I16 3R	26145257	26166257	estimated_end	26145257
	located_end	26166257		
CH322-91I23 3L	15906321	15927321	located_end	15906321
	estimated_end	15927321		
CH322-91J12 3RHet	1481237	1502237	located_end	1481237
	estimated_end	1502237		
CH322-91J17 3R	18665465	18686465	estimated_end	18665465
	located_end	18686465		
CH322-91J24 2L	18092156	18113156	estimated_end	18092156
	located_end	18113156		
CH322-91K11 3R	26188146	26209146	located_end	26188146
	estimated_end	26209146		
CH322-91K21 3L	18766256	18787256	estimated_end	18766256
	located_end	18787256		
CH322-91L01 3R	11699567	11720567	located_end	11699567
	estimated_end	11720567		
CH322-91L13 3R	814304	835304	located_end	814304
	estimated_end	835304		
CH322-91L23 ArmU	5722334	5743334	estimated_end	5722334
	located_end	5743334		

CH322-91M09 2L	12791828	12812828	estimated_end	12791828
	located_end	12812828		
CH322-91N19 2L	6278043	6299043	located_end	6278043
	estimated_end	6299043		
CH322-91N23 2L	2261231	2282231	estimated_end	2261231
	located_end	2282231		
CH322-91O06 ArmU	1192390	1213390	located_end	1192390
	estimated_end	1213390		
CH322-91O11 X	-12357	8643	estimated_end	-12357
	located_end	8643		
CH322-91P03 3R	2689677	2710677	located_end	2689677
	estimated_end	2710677		
CH322-91P07 3L	18718178	18739178	estimated_end	18718178
	located_end	18739178		
CH322-91P09 3R	22468575	22489575	estimated_end	22468575
	located_end	22489575		
CH322-91P10 3R	13663099	13684099	estimated_end	13663099
	located_end	13684099		
CH322-91P12 X	6977164	6998164	estimated_end	6977164
	located_end	6998164		
CH322-91P19 2L	12130835	12151835	located_end	12130835
	estimated_end	12151835		
CH322-92A06 3R	1914618	1935618	located_end	1914618
	estimated_end	1935618		
CH322-92A12 2L	4991435	5012435	estimated_end	4991435
	located_end	5012435		
CH322-92A19 3R	23260365	23281365	located_end	23260365
	estimated_end	23281365		
CH322-92A20 X	19267161	19288161	estimated_end	19267161
	located_end	19288161		
CH322-92A22 X	13456393	13477393	located_end	13456393
	estimated_end	13477393		
CH322-92B01 3RHet	1816532	1837532	estimated_end	1816532
	located_end	1837532		
CH322-92B10 X	20542986	20563986	estimated_end	20542986
	located_end	20563986		
CH322-92B13 2R	9992139	10013139	estimated_end	9992139
	located_end	10013139		
CH322-92B17 X	19967724	19988724	located_end	19967724
	estimated_end	19988724		
CH322-92B20 3R	24239299	24260299	estimated_end	24239299
	located_end	24260299		
CH322-92B21 2R	9053737	9074737	located_end	9053737
	estimated_end	9074737		
CH322-92B22 2R	14105244	14126244	located_end	14105244
	estimated_end	14126244		
CH322-92B23 4	1067897	1088897	estimated_end	1067897
	located_end	1088897		
CH322-92C01 3R	16748148	16769148	located_end	16748148
	estimated_end	16769148		
CH322-92C05 2L	12769955	12790955	located_end	12769955
	estimated_end	12790955		
CH322-92C16 2L	15769045	15790045	located_end	15769045
	estimated_end	15790045		

CH322-92C21 ArmU	9144245	9165245	located_end	9144245
	estimated_end	9165245		
CH322-92C23 3L	5777508	5798508	estimated_end	5777508
	located_end	5798508		
CH322-92D11 2L	9678399	9699399	located_end	9678399
	estimated_end	9699399		
CH322-92D16 X	15117570	15138570	estimated_end	15117570
	located_end	15138570		
CH322-92D19 3RHet	176408	197408	estimated_end	176408
	located_end	197408		
CH322-92D20 ArmU	8118866	8139866	estimated_end	8118866
	located_end	8139866		
CH322-92D23 3L	17194716	17215716	estimated_end	17194716
	located_end	17215716		
CH322-92E10 2L	12815204	12836204	estimated_end	12815204
	located_end	12836204		
CH322-92E13 2R	13180304	13201304	located_end	13180304
	estimated_end	13201304		
CH322-92E16 3R	24896920	24917920	estimated_end	24896920
	located_end	24917920		
CH322-92E17 X	850233	871233	located_end	850233
	estimated_end	871233		
CH322-92E18 X	14426120	14447120	located_end	14426120
	estimated_end	14447120		
CH322-92E23 3R	6928433	6949433	located_end	6928433
	estimated_end	6949433		
CH322-92F01 3R	7298711	7319711	estimated_end	7298711
	located_end	7319711		
CH322-92F03 2R	10880990	10901990	located_end	10880990
	estimated_end	10901990		
CH322-92F10 ArmU	2181232	2202232	estimated_end	2181232
	located_end	2202232		
CH322-92F11 X	9994547	10015547	estimated_end	9994547
	located_end	10015547		
CH322-92F12 2R	16799245	16820245	located_end	16799245
	estimated_end	16820245		
CH322-92F13 3R	21884543	21905543	located_end	21884543
	estimated_end	21905543		
CH322-92F15 2L	19321219	19342219	located_end	19321219
	estimated_end	19342219		
CH322-92F16 2L	19625492	19646492	located_end	19625492
	estimated_end	19646492		
CH322-92F21 X	742258	763258	located_end	742258
	estimated_end	763258		
CH322-92F24 3LHet	727540	748540	estimated_end	727540
	located_end	748540		
CH322-92G10 2L	8338151	8359151	located_end	8338151
	estimated_end	8359151		
CH322-92G16 3L	13685286	13706286	estimated_end	13685286
	located_end	13706286		
CH322-92G19 3L	12420134	12441134	estimated_end	12420134
	located_end	12441134		
CH322-92G20 2L	21938997	21959997	estimated_end	21938997
	located_end	21959997		

CH322-92G24 2R	9718926	9739926	located_end	9718926
	estimated_end	9739926		
CH322-92H01 2R	14930091	14951091	located_end	14930091
	estimated_end	14951091		
CH322-92H02 X	5130189	5151189	located_end	5130189
	estimated_end	5151189		
CH322-92H05 3R	6291930	6312930	located_end	6291930
	estimated_end	6312930		
CH322-92H13 2R	5753905	5774905	estimated_end	5753905
	located_end	5774905		
CH322-92H14 2L	7119154	7140154	estimated_end	7119154
	located_end	7140154		
CH322-92H15 X	1837029	1858029	located_end	1837029
	estimated_end	1858029		
CH322-92H19 X	3262208	3283208	estimated_end	3262208
	located_end	3283208		
CH322-92H20 2L	12140753	12161753	estimated_end	12140753
	located_end	12161753		
CH322-92H24 3R	6940865	6961865	estimated_end	6940865
	located_end	6961865		
CH322-92I02 3R	5888493	5909493	estimated_end	5888493
	located_end	5909493		
CH322-92I10 3L	3960433	3981433	estimated_end	3960433
	located_end	3981433		
CH322-92I16 2L	8556186	8577186	located_end	8556186
	estimated_end	8577186		
CH322-92I17 X	19751100	19772100	estimated_end	19751100
	located_end	19772100		
CH322-92I18 3R	13337899	13358899	estimated_end	13337899
	located_end	13358899		
CH322-92I19 2R	12322807	12343807	located_end	12322807
	estimated_end	12343807		
CH322-92I20 2R	17668608	17689608	estimated_end	17668608
	located_end	17689608		
CH322-92I21 3R	22187159	22208159	located_end	22187159
	estimated_end	22208159		
CH322-92I23 2RHet	429387	450387	estimated_end	429387
	located_end	450387		
CH322-92I24 2R	15829971	15850971	estimated_end	15829971
	located_end	15850971		
CH322-92J02 X	7690715	7711715	located_end	7690715
	estimated_end	7711715		
CH322-92J04 2L	5924575	5945575	estimated_end	5924575
	located_end	5945575		
CH322-92J10 3R	8334616	8355616	estimated_end	8334616
	located_end	8355616		
CH322-92J13 3R	12613886	12634886	located_end	12613886
	estimated_end	12634886		
CH322-92J15 3L	12392283	12413283	located_end	12392283
	estimated_end	12413283		
CH322-92J16 2L	17151803	17172803	estimated_end	17151803
	located_end	17172803		
CH322-92J18 3LHet	2183768	2204768	located_end	2183768
	estimated_end	2204768		

CH322-92J19 X	8209496	8230496	estimated_end	8209496
	located_end	8230496		
CH322-92K12 3R	17400717	17421717	estimated_end	17400717
	located_end	17421717		
CH322-92K16 3L	12289486	12310486	located_end	12289486
	estimated_end	12310486		
CH322-92K18 2L	11159223	11180223	estimated_end	11159223
	located_end	11180223		
CH322-92K23 3R	13857700	13878700	estimated_end	13857700
	located_end	13878700		
CH322-92K24 4	1000922	1021922	located_end	1000922
	estimated_end	1021922		
CH322-92L01 2R	3963542	3984542	estimated_end	3963542
	located_end	3984542		
CH322-92L06 3LHet	239671	260671	located_end	239671
	estimated_end	260671		
CH322-92L14 2L	19149313	19170313	estimated_end	19149313
	located_end	19170313		
CH322-92L22 2R	7651687	7672687	estimated_end	7651687
	located_end	7672687		
CH322-92L23 2L	4450692	4471692	estimated_end	4450692
	located_end	4471692		
CH322-92L24 3R	16969292	16990292	estimated_end	16969292
	located_end	16990292		
CH322-92M15 2R	792393	813393	located_end	792393
	estimated_end	813393		
CH322-92M17 2L	17595352	17616352	estimated_end	17595352
	located_end	17616352		
CH322-92M21 2R	6909682	6930682	estimated_end	6909682
	located_end	6930682		
CH322-92N01 2R	3440763	3461763	estimated_end	3440763
	located_end	3461763		
CH322-92N02 ArmU	7666198	7687198	estimated_end	7666198
	located_end	7687198		
CH322-92N12 3LHet	1276112	1297112	estimated_end	1276112
	located_end	1297112		
CH322-92N18 2L	10983004	11004004	located_end	10983004
	estimated_end	11004004		
CH322-92O01 3L	10486663	10507663	located_end	10486663
	estimated_end	10507663		
CH322-92O10 2L	16749403	16770403	estimated_end	16749403
	located_end	16770403		
CH322-92O17 2L	5080164	5101164	located_end	5080164
	estimated_end	5101164		
CH322-92O20 X	10149710	10170710	located_end	10149710
	estimated_end	10170710		
CH322-92O22 3R	21514107	21535107	estimated_end	21514107
	located_end	21535107		
CH322-92P03 3R	13927283	13948283	located_end	13927283
	estimated_end	13948283		
CH322-92P04 3R	3563557	3584557	located_end	3563557
	estimated_end	3584557		
CH322-92P05 2R	21038897	21059897	estimated_end	21038897
	located_end	21059897		

CH322-92P09 3L	13694324	13715324	estimated_end	13694324
	located_end	13715324		
CH322-92P13 3L	14519237	14540237	estimated_end	14519237
	located_end	14540237		
CH322-92P16 2RHet	1687398	1708398	estimated_end	1687398
	located_end	1708398		
CH322-92P21 X	16134500	16155500	estimated_end	16134500
	located_end	16155500		
CH322-93A09 2L	9204366	9225366	located_end	9204366
	estimated_end	9225366		
CH322-93A21 4	673882	694882	located_end	673882
	estimated_end	694882		
CH322-93B07 X	2666287	2687287	estimated_end	2666287
	located_end	2687287		
CH322-93C04 ArmU	7179426	7200426	estimated_end	7179426
	located_end	7200426		
CH322-93C07 2R	4302872	4323872	estimated_end	4302872
	located_end	4323872		
CH322-93C12 3L	15020848	15041848	located_end	15020848
	estimated_end	15041848		
CH322-93D01 3L	20107477	20128477	estimated_end	20107477
	located_end	20128477		
CH322-93D18 2L	7714026	7735026	located_end	7714026
	estimated_end	7735026		
CH322-93E05 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-93E18 X	3059444	3080444	located_end	3059444
	estimated_end	3080444		
CH322-93F06 3R	5648872	5669872	located_end	5648872
	estimated_end	5669872		
CH322-93G21 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-93G24 2L	10162546	10183546	estimated_end	10162546
	located_end	10183546		
CH322-93H03 2R	2106253	2127253	estimated_end	2106253
	located_end	2127253		
CH322-93H05 2R	1987974	2008974	estimated_end	1987974
	located_end	2008974		
CH322-93H23 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-93I17 2L	5562916	5583916	estimated_end	5562916
	located_end	5583916		
CH322-93I21 2RHet	26241	47241	located_end	26241
	estimated_end	47241		
CH322-93I22 3L	23815235	23836235	located_end	23815235
	estimated_end	23836235		
CH322-93J15 ArmU	7082565	7103565	located_end	7082565
	estimated_end	7103565		
CH322-93K02 3R	6311757	6332757	located_end	6311757
	estimated_end	6332757		
CH322-93K19 3L	7472480	7493480	located_end	7472480
	estimated_end	7493480		
CH322-93K24 X	330731	351731	located_end	330731
	estimated_end	351731		

CH322-93L15 3R	5662880	5683880	estimated_end	5662880
	located_end	5683880		
CH322-93M04 3L	1029142	1050142	located_end	1029142
	estimated_end	1050142		
CH322-93M11 X	12732309	12753309	located_end	12732309
	estimated_end	12753309		
CH322-93N20 X	16901530	16922530	estimated_end	16901530
	located_end	16922530		
CH322-93O14 2R	8687254	8708254	located_end	8687254
	estimated_end	8708254		
CH322-93O21 3R	16219302	16240302	estimated_end	16219302
	located_end	16240302		
CH322-93O24 ArmU	2615362	2636362	located_end	2615362
	estimated_end	2636362		
CH322-93P09 X	2669820	2690820	estimated_end	2669820
	located_end	2690820		
CH322-94A03 2L	9430043	9451043	estimated_end	9430043
	located_end	9451043		
CH322-94A06 2L	15108290	15129290	located_end	15108290
	estimated_end	15129290		
CH322-94A07 2L	14184342	14205342	located_end	14184342
	estimated_end	14205342		
CH322-94A08 2L	10547043	10568043	estimated_end	10547043
	located_end	10568043		
CH322-94A09 2R	13003664	13024664	estimated_end	13003664
	located_end	13024664		
CH322-94A12 3L	21630214	21651214	estimated_end	21630214
	located_end	21651214		
CH322-94A16 X	19231715	19252715	estimated_end	19231715
	located_end	19252715		
CH322-94A19 3L	16930974	16951974	estimated_end	16930974
	located_end	16951974		
CH322-94A20 X	5225784	5246784	located_end	5225784
	estimated_end	5246784		
CH322-94A21 3L	341622	362622	located_end	341622
	estimated_end	362622		
CH322-94B03 2R	9189395	9210395	estimated_end	9189395
	located_end	9210395		
CH322-94B04 3L	5171491	5192491	located_end	5171491
	estimated_end	5192491		
CH322-94B09 3R	25748255	25769255	estimated_end	25748255
	located_end	25769255		
CH322-94B19 3R	13109771	13130771	located_end	13109771
	estimated_end	13130771		
CH322-94B20 2L	12018416	12039416	located_end	12018416
	estimated_end	12039416		
CH322-94B21 3L	4153235	4174235	estimated_end	4153235
	located_end	4174235		
CH322-94B23 3L	7625292	7646292	estimated_end	7625292
	located_end	7646292		
CH322-94C01 3R	12728759	12749759	located_end	12728759
	estimated_end	12749759		
CH322-94C02 X	13643704	13664704	located_end	13643704
	estimated_end	13664704		

CH322-94C11 3R	17160268	17181268	located_end	17160268
	estimated_end	17181268		
CH322-94C16 X	20995821	21016821	located_end	20995821
	estimated_end	21016821		
CH322-94D02 2R	11068846	11089846	located_end	11068846
	estimated_end	11089846		
CH322-94D07 X	13304420	13325420	located_end	13304420
	estimated_end	13325420		
CH322-94D08 3R	6173633	6194633	estimated_end	6173633
	located_end	6194633		
CH322-94D12 3R	1214885	1235885	located_end	1214885
	estimated_end	1235885		
CH322-94E13 ArmU	3433698	3454698	located_end	3433698
	estimated_end	3454698		
CH322-94E21 X	13259428	13280428	estimated_end	13259428
	located_end	13280428		
CH322-94F01 X	9742902	9763902	located_end	9742902
	estimated_end	9763902		
CH322-94F08 3LHet	148846	169846	estimated_end	148846
	located_end	169846		
CH322-94F10 ArmU	2447143	2468143	estimated_end	2447143
	located_end	2468143		
CH322-94F22 3R	25359720	25380720	located_end	25359720
	estimated_end	25380720		
CH322-94G05 3R	14014931	14035931	estimated_end	14014931
	located_end	14035931		
CH322-94G08 ArmU	1044665	1065665	estimated_end	1044665
	located_end	1065665		
CH322-94G13 ArmU	5262957	5283957	located_end	5262957
	estimated_end	5283957		
CH322-94G14 2R	28055 49055	located_end 28055	estimated_end	49055
CH322-94H09 2R	13419365	13440365	located_end	13419365
	estimated_end	13440365		
CH322-94H10 3R	3799061	3820061	estimated_end	3799061
	located_end	3820061		
CH322-94H12 3L	10963506	10984506	estimated_end	10963506
	located_end	10984506		
CH322-94H13 X	19635000	19656000	estimated_end	19635000
	located_end	19656000		
CH322-94H14 2L	9427327	9448327	located_end	9427327
	estimated_end	9448327		
CH322-94H22 3L	22199264	22220264	estimated_end	22199264
	located_end	22220264		
CH322-94I02 3L	16964766	16985766	estimated_end	16964766
	located_end	16985766		
CH322-94I04 3L	18314576	18335576	estimated_end	18314576
	located_end	18335576		
CH322-94I09 3R	6088704	6109704	located_end	6088704
	estimated_end	6109704		
CH322-94I13 X	18115587	18136587	estimated_end	18115587
	located_end	18136587		
CH322-94I22 2L	12241655	12262655	located_end	12241655
	estimated_end	12262655		

CH322-94I24 3L	9308781	9329781	located_end	9308781
	estimated_end	9329781		
CH322-94K01 3R	18006818	18027818	located_end	18006818
	estimated_end	18027818		
CH322-94K11 2RHet	3239229	3260229	located_end	3239229
	estimated_end	3260229		
CH322-94K12 X	3630237	3651237	located_end	3630237
	estimated_end	3651237		
CH322-94K20 X	5095864	5116864	estimated_end	5095864
	located_end	5116864		
CH322-94K24 3R	19897364	19918364	estimated_end	19897364
	located_end	19918364		
CH322-94L05 ArmU	8576906	8597906	located_end	8576906
	estimated_end	8597906		
CH322-94N05 X	1518950	1539950	located_end	1518950
	estimated_end	1539950		
CH322-94N14 ArmU	291492	312492	estimated_end	291492
	located_end	312492		
CH322-94N22 3L	8796177	8817177	located_end	8796177
	estimated_end	8817177		
CH322-94N23 4	995833	1016833	located_end	995833
	estimated_end	1016833		
CH322-94O01 3L	12344416	12365416	located_end	12344416
	estimated_end	12365416		
CH322-94O09 3R	20829446	20850446	located_end	20829446
	estimated_end	20850446		
CH322-94O18 X	21777877	21798877	estimated_end	21777877
	located_end	21798877		
CH322-94O20 3L	67662	88662	located_end	67662
	estimated_end	88662		
CH322-94O22 2R	13222459	13243459	located_end	13222459
	estimated_end	13243459		
CH322-94P02 X	15747392	15768392	located_end	15747392
	estimated_end	15768392		
CH322-94P03 3L	17150713	17171713	estimated_end	17150713
	located_end	17171713		
CH322-94P04 3L	2665671	2686671	estimated_end	2665671
	located_end	2686671		
CH322-94P07 X	10790814	10811814	located_end	10790814
	estimated_end	10811814		
CH322-94P09 2R	15805843	15826843	estimated_end	15805843
	located_end	15826843		
CH322-94P11 3L	11104022	11125022	estimated_end	11104022
	located_end	11125022		
CH322-94P13 2L	10067003	10088003	located_end	10067003
	estimated_end	10088003		
CH322-94P18 2L	8712113	8733113	located_end	8712113
	estimated_end	8733113		
CH322-94P19 3R	10412618	10433618	estimated_end	10412618
	located_end	10433618		
CH322-94P20 3R	5701849	5722849	located_end	5701849
	estimated_end	5722849		
CH322-95A01 3L	20148803	20169803	located_end	20148803
	estimated_end	20169803		

CH322-95A02 3R	1246460	1267460	located_end	1246460
estimated_end	1267460			
CH322-95A03 3L	23671795	23692795	located_end	23671795
estimated_end	23692795			
CH322-95A06 3L	17283318	17304318	estimated_end	17283318
located_end	17304318			
CH322-95A07 X	6819523	6840523	estimated_end	6819523
located_end	6840523			
CH322-95A08 X	9382880	9403880	located_end	9382880
estimated_end	9403880			
CH322-95A10 2R	15770378	15791378	located_end	15770378
estimated_end	15791378			
CH322-95A11 3L	818026	839026	located_end	818026
estimated_end	839026			
CH322-95A12 3R	3259497	3280497	located_end	3259497
estimated_end	3280497			
CH322-95A14 X	2718119	2739119	estimated_end	2718119
located_end	2739119			
CH322-95A16 2L	22682135	22703135	estimated_end	22682135
located_end	22703135			
CH322-95A18 X	5304677	5325677	estimated_end	5304677
located_end	5325677			
CH322-95A19 2R	19120499	19141499	located_end	19120499
estimated_end	19141499			
CH322-95A20 2L	17635177	17656177	estimated_end	17635177
located_end	17656177			
CH322-95A21 X	368502	389502	located_end	368502
estimated_end	389502			
CH322-95A22 2R	7927970	7948970	located_end	7927970
estimated_end	7948970			
CH322-95A23 ArmU	971427	992427	located_end	971427
estimated_end	992427			
CH322-95A24 3L	20365015	20386015	located_end	20365015
estimated_end	20386015			
CH322-95B01 3R	6099809	6120809	located_end	6099809
estimated_end	6120809			
CH322-95B02 2L	916605	937605	estimated_end	916605
located_end	937605			
CH322-95B03 2R	8810197	8831197	estimated_end	8810197
located_end	8831197			
CH322-95B05 3R	19383974	19404974	estimated_end	19383974
located_end	19404974			
CH322-95B06 2L	17990790	18011790	located_end	17990790
estimated_end	18011790			
CH322-95B07 3R	4524644	4545644	estimated_end	4524644
located_end	4545644			
CH322-95B08 3R	17970545	17991545	estimated_end	17970545
located_end	17991545			
CH322-95B09 ArmU	9156673	9177673	located_end	9156673
estimated_end	9177673			
CH322-95B11 3R	15292631	15313631	located_end	15292631
estimated_end	15313631			
CH322-95B12 2L	10467098	10488098	located_end	10467098
estimated_end	10488098			

CH322-95B13 X	20424033	20445033	estimated_end	20424033
	located_end	20445033		
CH322-95B15 3R	15498613	15519613	estimated_end	15498613
	located_end	15519613		
CH322-95B16 X	3010729	3031729	located_end	3010729
	estimated_end	3031729		
CH322-95B17 2R	5599868	5620868	located_end	5599868
	estimated_end	5620868		
CH322-95B19 2L	2497661	2518661	located_end	2497661
	estimated_end	2518661		
CH322-95B20 X	20269488	20290488	estimated_end	20269488
	located_end	20290488		
CH322-95B22 2L	5916630	5937630	estimated_end	5916630
	located_end	5937630		
CH322-95B24 X	21192546	21213546	estimated_end	21192546
	located_end	21213546		
CH322-95C02 2L	8604334	8625334	estimated_end	8604334
	located_end	8625334		
CH322-95C04 3L	22062233	22083233	located_end	22062233
	estimated_end	22083233		
CH322-95C05 2L	9896855	9917855	located_end	9896855
	estimated_end	9917855		
CH322-95C06 X	15190022	15211022	located_end	15190022
	estimated_end	15211022		
CH322-95C07 2L	21752565	21773565	located_end	21752565
	estimated_end	21773565		
CH322-95C09 2L	18817050	18838050	estimated_end	18817050
	located_end	18838050		
CH322-95C10 2L	15230076	15251076	located_end	15230076
	estimated_end	15251076		
CH322-95C11 3R	21397551	21418551	estimated_end	21397551
	located_end	21418551		
CH322-95C14 3L	10110863	10131863	located_end	10110863
	estimated_end	10131863		
CH322-95C15 2R	11812534	11833534	estimated_end	11812534
	located_end	11833534		
CH322-95C17 3L	21103707	21124707	located_end	21103707
	estimated_end	21124707		
CH322-95C18 X	22308978	22329978	located_end	22308978
	estimated_end	22329978		
CH322-95C19 3L	11473526	11494526	located_end	11473526
	estimated_end	11494526		
CH322-95C20 3R	8901847	8922847	estimated_end	8901847
	located_end	8922847		
CH322-95C21 3L	10177521	10198521	estimated_end	10177521
	located_end	10198521		
CH322-95C22 3L	21211676	21232676	located_end	21211676
	estimated_end	21232676		
CH322-95C23 3R	21822284	21843284	estimated_end	21822284
	located_end	21843284		
CH322-95C24 2L	1393866	1414866	located_end	1393866
	estimated_end	1414866		
CH322-95D01 3L	19654602	19675602	estimated_end	19654602
	located_end	19675602		

CH322-95D02 2L	7763684	7784684	estimated_end	7763684
	located_end	7784684		
CH322-95D03 3R	8797155	8818155	estimated_end	8797155
	located_end	8818155		
CH322-95D04 2L	12241069	12262069	located_end	12241069
	estimated_end	12262069		
CH322-95D05 X	20644	41644	located_end	20644
	estimated_end	41644		
CH322-95D06 2R	20686824	20707824	estimated_end	20686824
	located_end	20707824		
CH322-95D08 3L	10656832	10677832	located_end	10656832
	estimated_end	10677832		
CH322-95D09 2R	11764098	11785098	estimated_end	11764098
	located_end	11785098		
CH322-95D10 2R	5153346	5174346	located_end	5153346
	estimated_end	5174346		
CH322-95D11 2R	16493138	16514138	estimated_end	16493138
	located_end	16514138		
CH322-95D12 3R	9016603	9037603	estimated_end	9016603
	located_end	9037603		
CH322-95D13 2R	12359536	12380536	estimated_end	12359536
	located_end	12380536		
CH322-95D14 2R	18773866	18794866	located_end	18773866
	estimated_end	18794866		
CH322-95D15 3L	5149744	5170744	located_end	5149744
	estimated_end	5170744		
CH322-95D17 4	304559	325559	estimated_end	304559
	located_end	325559		
CH322-95D18 3R	21337844	21358844	estimated_end	21337844
	located_end	21358844		
CH322-95D19 X	18219572	18240572	estimated_end	18219572
	located_end	18240572		
CH322-95D20 3R	8539096	8560096	estimated_end	8539096
	located_end	8560096		
CH322-95D21 X	21090529	21111529	estimated_end	21090529
	located_end	21111529		
CH322-95D22 2L	9149805	9170805	located_end	9149805
	estimated_end	9170805		
CH322-95D23 2RHet	105596	126596	estimated_end	105596
	located_end	126596		
CH322-95D24 3R	9014852	9035852	located_end	9014852
	estimated_end	9035852		
CH322-95E01 2L	5105982	5126982	estimated_end	5105982
	located_end	5126982		
CH322-95E02 3R	15013648	15034648	located_end	15013648
	estimated_end	15034648		
CH322-95E03 X	14163485	14184485	estimated_end	14163485
	located_end	14184485		
CH322-95E04 2L	12663184	12684184	located_end	12663184
	estimated_end	12684184		
CH322-95E05 3R	27638896	27659896	estimated_end	27638896
	located_end	27659896		
CH322-95E06 2L	18571190	18592190	located_end	18571190
	estimated_end	18592190		

CH322-95E09 3R	13276125	13297125	estimated_end	13276125
	located_end	13297125		
CH322-95E10 2L	4840303	4861303	estimated_end	4840303
	located_end	4861303		
CH322-95E11 2R	6837578	6858578	estimated_end	6837578
	located_end	6858578		
CH322-95E12 2L	19891122	19912122	located_end	19891122
	estimated_end	19912122		
CH322-95E14 3L	8537666	8558666	located_end	8537666
	estimated_end	8558666		
CH322-95E16 X	12683530	12704530	located_end	12683530
	estimated_end	12704530		
CH322-95E17 3L	16264772	16285772	located_end	16264772
	estimated_end	16285772		
CH322-95E18 2L	22741894	22762894	located_end	22741894
	estimated_end	22762894		
CH322-95E19 3L	8185235	8206235	estimated_end	8185235
	located_end	8206235		
CH322-95E20 4	916130	937130	located_end	916130
	estimated_end	937130		
CH322-95E21 2L	103348	124348	located_end	103348
	estimated_end	124348		
CH322-95E24 3R	27420219	27441219	estimated_end	27420219
	located_end	27441219		
CH322-95F01 3R	7659939	7680939	estimated_end	7659939
	located_end	7680939		
CH322-95F02 3R	10938782	10959782	located_end	10938782
	estimated_end	10959782		
CH322-95F03 3L	9663505	9684505	estimated_end	9663505
	located_end	9684505		
CH322-95F04 X	19411650	19432650	located_end	19411650
	estimated_end	19432650		
CH322-95F06 3L	12618283	12639283	estimated_end	12618283
	located_end	12639283		
CH322-95F07 2R	14172095	14193095	estimated_end	14172095
	located_end	14193095		
CH322-95F08 3R	16232691	16253691	located_end	16232691
	estimated_end	16253691		
CH322-95F10 2L	15477978	15498978	located_end	15477978
	estimated_end	15498978		
CH322-95F12 3R	21127711	21148711	located_end	21127711
	estimated_end	21148711		
CH322-95F13 2R	9739654	9760654	estimated_end	9739654
	located_end	9760654		
CH322-95F16 X	22146427	22167427	located_end	22146427
	estimated_end	22167427		
CH322-95F17 3R	3565162	3586162	located_end	3565162
	estimated_end	3586162		
CH322-95F18 3R	19429055	19450055	estimated_end	19429055
	located_end	19450055		
CH322-95F20 X	10816240	10837240	estimated_end	10816240
	located_end	10837240		
CH322-95F21 3R	17766179	17787179	located_end	17766179
	estimated_end	17787179		

CH322-95F22 3R	25893063	25914063	estimated_end	25893063
	located_end	25914063		
CH322-95F23 2L	14265976	14286976	estimated_end	14265976
	located_end	14286976		
CH322-95F24 2L	14545835	14566835	located_end	14545835
	estimated_end	14566835		
CH322-95G01 2R	6276495	6297495	located_end	6276495
	estimated_end	6297495		
CH322-95G02 3L	15499383	15520383	located_end	15499383
	estimated_end	15520383		
CH322-95G03 3R	21245926	21266926	estimated_end	21245926
	located_end	21266926		
CH322-95G04 2L	9829719	9850719	located_end	9829719
	estimated_end	9850719		
CH322-95G05 3L	16187413	16208413	estimated_end	16187413
	located_end	16208413		
CH322-95G08 3L	21951038	21972038	estimated_end	21951038
	located_end	21972038		
CH322-95G09 2R	13883598	13904598	estimated_end	13883598
	located_end	13904598		
CH322-95G10 3R	24376955	24397955	estimated_end	24376955
	located_end	24397955		
CH322-95G12 2L	7159950	7180950	located_end	7159950
	estimated_end	7180950		
CH322-95G14 3L	1207877	1228877	located_end	1207877
	estimated_end	1228877		
CH322-95G15 3L	13730407	13751407	estimated_end	13730407
	located_end	13751407		
CH322-95G16 3R	23160082	23181082	located_end	23160082
	estimated_end	23181082		
CH322-95G17 3L	10929998	10950998	located_end	10929998
	estimated_end	10950998		
CH322-95G18 3R	8344005	8365005	estimated_end	8344005
	located_end	8365005		
CH322-95G19 2R	1645174	1666174	estimated_end	1645174
	located_end	1666174		
CH322-95G20 3R	13037809	13058809	estimated_end	13037809
	located_end	13058809		
CH322-95G21 3R	6094252	6115252	estimated_end	6094252
	located_end	6115252		
CH322-95G22 4	1197115	1218115	estimated_end	1197115
	located_end	1218115		
CH322-95G24 3R	5841365	5862365	located_end	5841365
	estimated_end	5862365		
CH322-95H01 2R	3825983	3846983	located_end	3825983
	estimated_end	3846983		
CH322-95H02 3R	4784985	4805985	estimated_end	4784985
	located_end	4805985		
CH322-95H03 2L	21302753	21323753	located_end	21302753
	estimated_end	21323753		
CH322-95H04 3R	14957164	14978164	located_end	14957164
	estimated_end	14978164		
CH322-95H05 X	2938347	2959347	located_end	2938347
	estimated_end	2959347		

CH322-95H06 X	3770796	3791796	located_end	3770796
	estimated_end	3791796		
CH322-95H07 2R	14456786	14477786	located_end	14456786
	estimated_end	14477786		
CH322-95H08 X	19997300	20018300	estimated_end	19997300
	located_end	20018300		
CH322-95H09 3R	14641107	14662107	estimated_end	14641107
	located_end	14662107		
CH322-95H10 3R	13586093	13607093	located_end	13586093
	estimated_end	13607093		
CH322-95H12 X	16462172	16483172	located_end	16462172
	estimated_end	16483172		
CH322-95H13 3L	14421850	14442850	estimated_end	14421850
	located_end	14442850		
CH322-95H14 2L	10655558	10676558	estimated_end	10655558
	located_end	10676558		
CH322-95H15 X	10046292	10067292	estimated_end	10046292
	located_end	10067292		
CH322-95H16 3R	27445751	27466751	estimated_end	27445751
	located_end	27466751		
CH322-95H17 3L	5892407	5913407	estimated_end	5892407
	located_end	5913407		
CH322-95H18 2R	19593243	19614243	estimated_end	19593243
	located_end	19614243		
CH322-95H19 2R	16211522	16232522	estimated_end	16211522
	located_end	16232522		
CH322-95H20 2R	10576233	10597233	estimated_end	10576233
	located_end	10597233		
CH322-95H23 2R	11841972	11862972	estimated_end	11841972
	located_end	11862972		
CH322-95H24 3L	4294917	4315917	estimated_end	4294917
	located_end	4315917		
CH322-95I01 3L	3001618	3022618	estimated_end	3001618
	located_end	3022618		
CH322-95I02 3R	27756836	27777836	estimated_end	27756836
	located_end	27777836		
CH322-95I04 2L	7950573	7971573	estimated_end	7950573
	located_end	7971573		
CH322-95I07 2L	15352811	15373811	located_end	15352811
	estimated_end	15373811		
CH322-95I08 2L	362467	383467	estimated_end	362467
	located_end	383467		
CH322-95I09 3R	15547784	15568784	estimated_end	15547784
	located_end	15568784		
CH322-95I13 3R	17769726	17790726	estimated_end	17769726
	located_end	17790726		
CH322-95I14 3L	13438705	13459705	estimated_end	13438705
	located_end	13459705		
CH322-95I15 3R	8502999	8523999	located_end	8502999
	estimated_end	8523999		
CH322-95I16 ArmU	8143658	8164658	located_end	8143658
	estimated_end	8164658		
CH322-95I17 3R	20502720	20523720	estimated_end	20502720
	located_end	20523720		

CH322-95I18 2L	276303	297303	located_end	276303
	estimated_end	297303		
CH322-95I20 X	15311593	15332593	estimated_end	15311593
	located_end	15332593		
CH322-95I21 3R	5426439	5447439	estimated_end	5426439
	located_end	5447439		
CH322-95I22 3R	353929	374929	estimated_end	353929
	located_end	374929		
CH322-95I23 3R	3890162	3911162	estimated_end	3890162
	located_end	3911162		
CH322-95J02 2R	1835255	1856255	estimated_end	1835255
	located_end	1856255		
CH322-95J03 3L	5906187	5927187	estimated_end	5906187
	located_end	5927187		
CH322-95J04 3L	12820527	12841527	estimated_end	12820527
	located_end	12841527		
CH322-95J06 2L	18330850	18351850	estimated_end	18330850
	located_end	18351850		
CH322-95J10 2R	18825815	18846815	located_end	18825815
	estimated_end	18846815		
CH322-95J12 3LHet	1082573	1103573	estimated_end	1082573
	located_end	1103573		
CH322-95J16 3L	19099336	19120336	located_end	19099336
	estimated_end	19120336		
CH322-95J17 3L	12095765	12116765	estimated_end	12095765
	located_end	12116765		
CH322-95J19 X	10504440	10525440	located_end	10504440
	estimated_end	10525440		
CH322-95J20 2L	16489269	16510269	estimated_end	16489269
	located_end	16510269		
CH322-95J22 X	21302705	21323705	located_end	21302705
	estimated_end	21323705		
CH322-95J24 2L	12887738	12908738	estimated_end	12887738
	located_end	12908738		
CH322-95K01 3L	13265393	13286393	estimated_end	13265393
	located_end	13286393		
CH322-95K02 2L	11406500	11427500	located_end	11406500
	estimated_end	11427500		
CH322-95K03 2L	7725615	7746615	estimated_end	7725615
	located_end	7746615		
CH322-95K04 3L	9227232	9248232	estimated_end	9227232
	located_end	9248232		
CH322-95K06 3R	19399666	19420666	located_end	19399666
	estimated_end	19420666		
CH322-95K07 X	1847173	1868173	estimated_end	1847173
	located_end	1868173		
CH322-95K09 2R	9352606	9373606	estimated_end	9352606
	located_end	9373606		
CH322-95K10 3RHet	603736	624736	estimated_end	603736
	located_end	624736		
CH322-95K16 3R	830905	851905	estimated_end	830905
	located_end	851905		
CH322-95K18 X	8858384	8879384	estimated_end	8858384
	located_end	8879384		

CH322-95K19 3R	5783796	5804796	located_end 5783796
estimated_end	5804796		
CH322-95K20 3R	23132372	23153372	estimated_end 23132372
located_end	23153372		
CH322-95K22 3L	10427902	10448902	located_end 10427902
estimated_end	10448902		
CH322-95K23 X	9359257	9380257	located_end 9359257
estimated_end	9380257		
CH322-95L01 3R	17779811	17800811	estimated_end 17779811
located_end	17800811		
CH322-95L02 X	14021050	14042050	located_end 14021050
estimated_end	14042050		
CH322-95L03 X	3225211	3246211	estimated_end 3225211
located_end	3246211		
CH322-95L05 3L	15692004	15713004	estimated_end 15692004
located_end	15713004		
CH322-95L06 2L	17120717	17141717	estimated_end 17120717
located_end	17141717		
CH322-95L10 3L	8004665	8025665	located_end 8004665
estimated_end	8025665		
CH322-95L14 3L	9546853	9567853	located_end 9546853
estimated_end	9567853		
CH322-95L15 2R	8984128	9005128	located_end 8984128
estimated_end	9005128		
CH322-95L16 3L	17178303	17199303	located_end 17178303
estimated_end	17199303		
CH322-95L17 3L	22224686	22245686	estimated_end 22224686
located_end	22245686		
CH322-95L18 4	417861	438861	located_end 417861
estimated_end	438861		
CH322-95L19 2R	13502645	13523645	estimated_end 13502645
located_end	13523645		
CH322-95L20 X	11178648	11199648	located_end 11178648
estimated_end	11199648		
CH322-95L23 4	513780	534780	estimated_end 513780
located_end	534780		
CH322-95L24 2L	1760992	1781992	located_end 1760992
estimated_end	1781992		
CH322-95M04 3R	10799991	10820991	estimated_end 10799991
located_end	10820991		
CH322-95M05 3L	4160718	4181718	estimated_end 4160718
located_end	4181718		
CH322-95M06 3L	2341257	2362257	estimated_end 2341257
located_end	2362257		
CH322-95M10 X	15349934	15370934	located_end 15349934
estimated_end	15370934		
CH322-95M13 2L	8068271	8089271	estimated_end 8068271
located_end	8089271		
CH322-95M15 2R	18873592	18894592	located_end 18873592
estimated_end	18894592		
CH322-95M16 3R	15143671	15164671	located_end 15143671
estimated_end	15164671		
CH322-95M17 3R	4003251	4024251	located_end 4003251
estimated_end	4024251		

CH322-95M18 3L	16622520	16643520	estimated_end	16622520
	located_end	16643520		
CH322-95M20 X	7621809	7642809	located_end	7621809
	estimated_end	7642809		
CH322-95M23 3L	10135388	10156388	estimated_end	10135388
	located_end	10156388		
CH322-95N01 3R	5093069	5114069	located_end	5093069
	estimated_end	5114069		
CH322-95N02 3R	2979965	3000965	located_end	2979965
	estimated_end	3000965		
CH322-95N03 3R	22545509	22566509	estimated_end	22545509
	located_end	22566509		
CH322-95N04 2L	14027691	14048691	located_end	14027691
	estimated_end	14048691		
CH322-95N06 2L	10602531	10623531	located_end	10602531
	estimated_end	10623531		
CH322-95N08 2R	8227738	8248738	located_end	8227738
	estimated_end	8248738		
CH322-95N09 2L	22321010	22342010	estimated_end	22321010
	located_end	22342010		
CH322-95N10 2R	5990613	6011613	located_end	5990613
	estimated_end	6011613		
CH322-95N13 3R	8261730	8282730	estimated_end	8261730
	located_end	8282730		
CH322-95N14 3R	14027583	14048583	located_end	14027583
	estimated_end	14048583		
CH322-95N17 2L	20789766	20810766	estimated_end	20789766
	located_end	20810766		
CH322-95N18 3L	5506966	5527966	estimated_end	5506966
	located_end	5527966		
CH322-95N22 X	13795850	13816850	estimated_end	13795850
	located_end	13816850		
CH322-95N24 X	11120915	11141915	estimated_end	11120915
	located_end	11141915		
CH322-95O01 2R	15913146	15934146	estimated_end	15913146
	located_end	15934146		
CH322-95O02 X	14869335	14890335	located_end	14869335
	estimated_end	14890335		
CH322-95O03 X	12198733	12219733	estimated_end	12198733
	located_end	12219733		
CH322-95O04 2R	13820287	13841287	estimated_end	13820287
	located_end	13841287		
CH322-95O06 3R	22115154	22136154	located_end	22115154
	estimated_end	22136154		
CH322-95O10 2R	2817960	2838960	estimated_end	2817960
	located_end	2838960		
CH322-95O11 2L	16026841	16047841	located_end	16026841
	estimated_end	16047841		
CH322-95O12 2L	22304114	22325114	estimated_end	22304114
	located_end	22325114		
CH322-95O13 3R	25319918	25340918	located_end	25319918
	estimated_end	25340918		
CH322-95O14 3L	5159914	5180914	located_end	5159914
	estimated_end	5180914		

CH322-95015 2R	6096977	6117977	estimated_end	6096977
	located_end	6117977		
CH322-95016 2L	1465658	1486658	located_end	1465658
	estimated_end	1486658		
CH322-95017 2L	16590518	16611518	estimated_end	16590518
	located_end	16611518		
CH322-95018 3R	27300315	27321315	located_end	27300315
	estimated_end	27321315		
CH322-95021 X	14028821	14049821	estimated_end	14028821
	located_end	14049821		
CH322-95024 2L	1394354	1415354	estimated_end	1394354
	located_end	1415354		
CH322-95P01 3R	3471170	3492170	located_end	3471170
	estimated_end	3492170		
CH322-95P02 3L	23746467	23767467	estimated_end	23746467
	located_end	23767467		
CH322-95P04 3R	1882877	1903877	estimated_end	1882877
	located_end	1903877		
CH322-95P08 3L	16227032	16248032	located_end	16227032
	estimated_end	16248032		
CH322-95P10 2R	786047	807047	located_end	786047
	estimated_end	807047		
CH322-95P11 2L	4113880	4134880	located_end	4113880
	estimated_end	4134880		
CH322-95P12 3L	6588600	6609600	estimated_end	6588600
	located_end	6609600		
CH322-95P13 2R	19636334	19657334	estimated_end	19636334
	located_end	19657334		
CH322-95P15 X	8941	29941	located_end	8941
			estimated_end	29941
CH322-95P16 X	12169045	12190045	estimated_end	12169045
	located_end	12190045		
CH322-95P18 3R	10153948	10174948	located_end	10153948
	estimated_end	10174948		
CH322-95P20 3L	2732611	2753611	located_end	2732611
	estimated_end	2753611		
CH322-96A05 X	12195565	12216565	estimated_end	12195565
	located_end	12216565		
CH322-96A09 3R	19092868	19113868	located_end	19092868
	estimated_end	19113868		
CH322-96B05 3R	26188146	26209146	located_end	26188146
	estimated_end	26209146		
CH322-96B23 2RHet	3267143	3288143	located_end	3267143
	estimated_end	3288143		
CH322-96C02 ArmU	7500769	7521769	estimated_end	7500769
	located_end	7521769		
CH322-96C10 2L	2622134	2643134	located_end	2622134
	estimated_end	2643134		
CH322-96C11 2R	19027877	19048877	estimated_end	19027877
	located_end	19048877		
CH322-96C12 4	914665	935665	located_end	914665
	estimated_end	935665		
CH322-96C14 2L	21720548	21741548	estimated_end	21720548
	located_end	21741548		

CH322-96C15 3R	5251526	5272526	located_end	5251526
	estimated_end	5272526		
CH322-96C16 3L	2149511	2170511	located_end	2149511
	estimated_end	2170511		
CH322-96C18 3R	22955262	22976262	located_end	22955262
	estimated_end	22976262		
CH322-96C23 2R	20140557	20161557	located_end	20140557
	estimated_end	20161557		
CH322-96D02 3R	9953540	9974540	estimated_end	9953540
	located_end	9974540		
CH322-96D06 2R	1437127	1458127	located_end	1437127
	estimated_end	1458127		
CH322-96D08 3R	23634466	23655466	estimated_end	23634466
	located_end	23655466		
CH322-96D11 2L	15871729	15892729	located_end	15871729
	estimated_end	15892729		
CH322-96D12 2L	4412727	4433727	estimated_end	4412727
	located_end	4433727		
CH322-96D15 2L	10394848	10415848	located_end	10394848
	estimated_end	10415848		
CH322-96D19 2L	11813093	11834093	estimated_end	11813093
	located_end	11834093		
CH322-96D20 2R	8784594	8805594	located_end	8784594
	estimated_end	8805594		
CH322-96E02 2R	19423456	19444456	estimated_end	19423456
	located_end	19444456		
CH322-96E07 2L	9239157	9260157	estimated_end	9239157
	located_end	9260157		
CH322-96E09 X	11265121	11286121	estimated_end	11265121
	located_end	11286121		
CH322-96E10 2R	1468497	1489497	estimated_end	1468497
	located_end	1489497		
CH322-96E18 3L	13018117	13039117	estimated_end	13018117
	located_end	13039117		
CH322-96F04 2L	718708	739708	estimated_end	718708
	located_end	739708		
CH322-96F07 3L	21126296	21147296	located_end	21126296
	estimated_end	21147296		
CH322-96F08 2L	8107045	8128045	located_end	8107045
	estimated_end	8128045		
CH322-96F11 2L	9047504	9068504	located_end	9047504
	estimated_end	9068504		
CH322-96F12 2L	5308875	5329875	located_end	5308875
	estimated_end	5329875		
CH322-96F17 2L	2273588	2294588	located_end	2273588
	estimated_end	2294588		
CH322-96G04 2L	9270474	9291474	estimated_end	9270474
	located_end	9291474		
CH322-96G05 3L	21467300	21488300	estimated_end	21467300
	located_end	21488300		
CH322-96G06 3R	5347257	5368257	estimated_end	5347257
	located_end	5368257		
CH322-96G09 X	7809106	7830106	located_end	7809106
	estimated_end	7830106		

CH322-96G13 3L	13809963	13830963	estimated_end	13809963
	located_end	13830963		
CH322-96G16 2R	10015051	10036051	estimated_end	10015051
	located_end	10036051		
CH322-96G17 3L	328321	349321	estimated_end	328321
	located_end	349321		
CH322-96G18 3L	16483607	16504607	located_end	16483607
	estimated_end	16504607		
CH322-96G20 2R	16300768	16321768	located_end	16300768
	estimated_end	16321768		
CH322-96H03 3R	23865344	23886344	estimated_end	23865344
	located_end	23886344		
CH322-96H06 X	20746273	20767273	located_end	20746273
	estimated_end	20767273		
CH322-96H18 2R	15127988	15148988	located_end	15127988
	estimated_end	15148988		
CH322-96H23 2R	18491435	18512435	estimated_end	18491435
	located_end	18512435		
CH322-96I06 X	15975264	15996264	located_end	15975264
	estimated_end	15996264		
CH322-96I07 3R	4925324	4946324	located_end	4925324
	estimated_end	4946324		
CH322-96I08 3R	9982201	10003201	estimated_end	9982201
	located_end	10003201		
CH322-96I11 3R	16541878	16562878	estimated_end	16541878
	located_end	16562878		
CH322-96I15 3R	11510922	11531922	located_end	11510922
	estimated_end	11531922		
CH322-96I16 X	7689540	7710540	located_end	7689540
	estimated_end	7710540		
CH322-96I20 2L	2564452	2585452	located_end	2564452
	estimated_end	2585452		
CH322-96I24 X	20213943	20234943	estimated_end	20213943
	located_end	20234943		
CH322-96J06 3L	6715261	6736261	located_end	6715261
	estimated_end	6736261		
CH322-96J07 X	22019277	22040277	located_end	22019277
	estimated_end	22040277		
CH322-96J08 4	588123	609123	estimated_end	588123
	located_end	609123		
CH322-96J09 2R	15525412	15546412	located_end	15525412
	estimated_end	15546412		
CH322-96J17 2R	18815372	18836372	located_end	18815372
	estimated_end	18836372		
CH322-96K03 2R	8709881	8730881	estimated_end	8709881
	located_end	8730881		
CH322-96K05 2R	12406342	12427342	located_end	12406342
	estimated_end	12427342		
CH322-96K07 2L	1888804	1909804	located_end	1888804
	estimated_end	1909804		
CH322-96K08 3R	3986001	4007001	located_end	3986001
	estimated_end	4007001		
CH322-96K09 3L	16986180	17007180	located_end	16986180
	estimated_end	17007180		

CH322-96K10 2R	18469618	18490618	estimated_end	18469618
	located_end	18490618		
CH322-96K11 2R	17818797	17839797	estimated_end	17818797
	located_end	17839797		
CH322-96K12 3L	8590029	8611029	estimated_end	8590029
	located_end	8611029		
CH322-96K13 3R	17514898	17535898	located_end	17514898
	estimated_end	17535898		
CH322-96K14 2R	14255346	14276346	estimated_end	14255346
	located_end	14276346		
CH322-96K20 2R	2598272	2619272	estimated_end	2598272
	located_end	2619272		
CH322-96L01 3R	18042020	18063020	located_end	18042020
	estimated_end	18063020		
CH322-96L03 3R	18245965	18266965	located_end	18245965
	estimated_end	18266965		
CH322-96L04 3R	13509359	13530359	located_end	13509359
	estimated_end	13530359		
CH322-96L11 2L	22522459	22543459	located_end	22522459
	estimated_end	22543459		
CH322-96L12 2LHet	187186	208186	located_end	187186
	estimated_end	208186		
CH322-96L20 3L	13279208	13300208	estimated_end	13279208
	located_end	13300208		
CH322-96M02 3L	3745389	3766389	located_end	3745389
	estimated_end	3766389		
CH322-96M07 3L	17756950	17777950	estimated_end	17756950
	located_end	17777950		
CH322-96M08 2RHet	1112315	1133315	estimated_end	1112315
	located_end	1133315		
CH322-96M11 3R	16247110	16268110	located_end	16247110
	estimated_end	16268110		
CH322-96M12 3R	27675306	27696306	estimated_end	27675306
	located_end	27696306		
CH322-96M14 3R	3335074	3356074	estimated_end	3335074
	located_end	3356074		
CH322-96M15 3L	2330780	2351780	located_end	2330780
	estimated_end	2351780		
CH322-96M23 2RHet	2115298	2136298	estimated_end	2115298
	located_end	2136298		
CH322-96N12 2R	869834	890834	located_end	869834
	estimated_end	890834		
CH322-96N16 3L	11369967	11390967	estimated_end	11369967
	located_end	11390967		
CH322-96O04 3LHet	1985621	2006621	estimated_end	1985621
	located_end	2006621		
CH322-96O05 3R	7650060	7671060	located_end	7650060
	estimated_end	7671060		
CH322-96O12 3R	18656412	18677412	estimated_end	18656412
	located_end	18677412		
CH322-96O18 3L	17841561	17862561	located_end	17841561
	estimated_end	17862561		
CH322-96O21 3R	27388924	27409924	estimated_end	27388924
	located_end	27409924		

CH322-96P07 X	1616791	1637791	located_end	1616791
	estimated_end	1637791		
CH322-96P09 2R	15171640	15192640	located_end	15171640
	estimated_end	15192640		
CH322-96P14 3R	10047175	10068175	located_end	10047175
	estimated_end	10068175		
CH322-96P20 3L	24290560	24311560	located_end	24290560
	estimated_end	24311560		
CH322-96P21 3L	20696290	20717290	located_end	20696290
	estimated_end	20717290		
CH322-96P22 2R	16089347	16110347	located_end	16089347
	estimated_end	16110347		
CH322-97A02 2L	17375008	17396008	estimated_end	17375008
	located_end	17396008		
CH322-97A05 2R	13262904	13283904	estimated_end	13262904
	located_end	13283904		
CH322-97A09 3R	23996630	24017630	estimated_end	23996630
	located_end	24017630		
CH322-97A23 2R	11894168	11915168	located_end	11894168
	estimated_end	11915168		
CH322-97B08 ArmU	8283093	8304093	estimated_end	8283093
	located_end	8304093		
CH322-97B14 3R	20509330	20530330	estimated_end	20509330
	located_end	20530330		
CH322-97B24 3L	5526467	5547467	located_end	5526467
	estimated_end	5547467		
CH322-97C01 3L	14876874	14897874	estimated_end	14876874
	located_end	14897874		
CH322-97C04 3L	22946832	22967832	estimated_end	22946832
	located_end	22967832		
CH322-97C11 3R	21425837	21446837	estimated_end	21425837
	located_end	21446837		
CH322-97C13 2R	20479597	20500597	estimated_end	20479597
	located_end	20500597		
CH322-97D03 X	134723	155723	estimated_end	134723
	located_end	155723		
CH322-97D06 ArmU	5676307	5697307	estimated_end	5676307
	located_end	5697307		
CH322-97D11 3R	18845969	18866969	located_end	18845969
	estimated_end	18866969		
CH322-97E10 X	1901382	1922382	located_end	1901382
	estimated_end	1922382		
CH322-97E11 X	13841159	13862159	located_end	13841159
	estimated_end	13862159		
CH322-97E12 2R	21026411	21047411	located_end	21026411
	estimated_end	21047411		
CH322-97E19 3LHet	2279140	2300140	located_end	2279140
	estimated_end	2300140		
CH322-97F08 3L	4628178	4649178	estimated_end	4628178
	located_end	4649178		
CH322-97F11 3L	23219561	23240561	located_end	23219561
	estimated_end	23240561		
CH322-97F13 3L	22555340	22576340	estimated_end	22555340
	located_end	22576340		

CH322-97F15 ArmU	4026513	4047513	located_end	4026513
	estimated_end	4047513		
CH322-97F16 3R	14854210	14875210	located_end	14854210
	estimated_end	14875210		
CH322-97F24 X	13728881	13749881	located_end	13728881
	estimated_end	13749881		
CH322-97G01 XHet	44216	65216	located_end	44216
	estimated_end	65216		65216
CH322-97G07 3RHet	1680280	1701280	estimated_end	1680280
	located_end	1701280		
CH322-97G10 X	6686939	6707939	located_end	6686939
	estimated_end	6707939		
CH322-97G11 2RHet	3239085	3260085	located_end	3239085
	estimated_end	3260085		
CH322-97G12 3R	13215859	13236859	estimated_end	13215859
	located_end	13236859		
CH322-97G18 2L	6736430	6757430	estimated_end	6736430
	located_end	6757430		
CH322-97H05 3L	7025095	7046095	estimated_end	7025095
	located_end	7046095		
CH322-97H11 2R	3984926	4005926	estimated_end	3984926
	located_end	4005926		
CH322-97I01 3L	21270280	21291280	located_end	21270280
	estimated_end	21291280		
CH322-97I06 3R	11969576	11990576	located_end	11969576
	estimated_end	11990576		
CH322-97I08 2L	3376140	3397140	estimated_end	3376140
	located_end	3397140		
CH322-97I10 X	19116970	19137970	located_end	19116970
	estimated_end	19137970		
CH322-97I11 3L	8888285	8909285	estimated_end	8888285
	located_end	8909285		
CH322-97I13 3R	4431458	4452458	estimated_end	4431458
	located_end	4452458		
CH322-97I14 ArmU	1000347	1021347	located_end	1000347
	estimated_end	1021347		
CH322-97I17 2L	6704693	6725693	located_end	6704693
	estimated_end	6725693		
CH322-97I24 2RHet	1453079	1474079	located_end	1453079
	estimated_end	1474079		
CH322-97J10 2L	18672197	18693197	located_end	18672197
	estimated_end	18693197		
CH322-97J11 3R	1795261	1816261	located_end	1795261
	estimated_end	1816261		
CH322-97J20 2R	17251999	17272999	estimated_end	17251999
	located_end	17272999		
CH322-97K12 3L	13429462	13450462	estimated_end	13429462
	located_end	13450462		
CH322-97K13 X	16908050	16929050	estimated_end	16908050
	located_end	16929050		
CH322-97K20 2R	10766163	10787163	estimated_end	10766163
	located_end	10787163		
CH322-97L07 ArmU	2154151	2175151	located_end	2154151
	estimated_end	2175151		

CH322-97L09 2R	15848832	15869832	estimated_end	15848832
	located_end	15869832		
CH322-97L10 2L	16360524	16381524	estimated_end	16360524
	located_end	16381524		
CH322-97L15 3R	15250213	15271213	located_end	15250213
	estimated_end	15271213		
CH322-97L20 2R	14515450	14536450	estimated_end	14515450
	located_end	14536450		
CH322-97M01 3L	13079636	13100636	located_end	13079636
	estimated_end	13100636		
CH322-97M04 3LHet	655475	676475	estimated_end	655475
	located_end	676475		
CH322-97M07 3RHet	2165368	2186368	estimated_end	2165368
	located_end	2186368		
CH322-97M15 ArmU	343595	364595	estimated_end	343595
	located_end	364595		
CH322-97M16 2RHet	2245493	2266493	located_end	2245493
	estimated_end	2266493		
CH322-97N01 2L	19188413	19209413	estimated_end	19188413
	located_end	19209413		
CH322-97N05 X	19950468	19971468	located_end	19950468
	estimated_end	19971468		
CH322-97N15 X	14660212	14681212	estimated_end	14660212
	located_end	14681212		
CH322-97N20 2R	14291044	14312044	located_end	14291044
	estimated_end	14312044		
CH322-97N22 3RHet	2212273	2233273	located_end	2212273
	estimated_end	2233273		
CH322-97N24 2L	22332676	22353676	estimated_end	22332676
	located_end	22353676		
CH322-97O01 3R	11792212	11813212	located_end	11792212
	estimated_end	11813212		
CH322-97O02 ArmU	128479	149479	located_end	128479
	estimated_end	149479		
CH322-97O06 2R	18305922	18326922	located_end	18305922
	estimated_end	18326922		
CH322-97O14 2R	2318191	2339191	located_end	2318191
	estimated_end	2339191		
CH322-97O23 2L	8419092	8440092	estimated_end	8419092
	located_end	8440092		
CH322-97P01 2R	13092968	13113968	located_end	13092968
	estimated_end	13113968		
CH322-97P02 X	17413369	17434369	located_end	17413369
	estimated_end	17434369		
CH322-97P03 X	4778616	4799616	estimated_end	4778616
	located_end	4799616		
CH322-97P04 ArmU	8231602	8252602	located_end	8231602
	estimated_end	8252602		
CH322-97P06 3R	7700146	7721146	located_end	7700146
	estimated_end	7721146		
CH322-97P07 2L	13826194	13847194	located_end	13826194
	estimated_end	13847194		
CH322-97P09 3RHet	1780157	1801157	located_end	1780157
	estimated_end	1801157		

CH322-97P12 2R	20047860	20068860	located_end	20047860
	estimated_end	20068860		
CH322-97P14 3L	9572484	9593484	estimated_end	9572484
	located_end	9593484		
CH322-97P15 3L	8130604	8151604	estimated_end	8130604
	located_end	8151604		
CH322-97P16 3R	17706378	17727378	located_end	17706378
	estimated_end	17727378		
CH322-97P18 X	3092831	3113831	located_end	3092831
	estimated_end	3113831		
CH322-97P20 2L	19984213	20005213	estimated_end	19984213
	located_end	20005213		
CH322-97P23 2L	430635	451635	estimated_end	430635
	located_end	451635		
CH322-98A19 X	17848767	17869767	located_end	17848767
	estimated_end	17869767		
CH322-98A20 3R	22953280	22974280	estimated_end	22953280
	located_end	22974280		
CH322-98B02 2R	5623971	5644971	located_end	5623971
	estimated_end	5644971		
CH322-98B06 X	21318409	21339409	estimated_end	21318409
	located_end	21339409		
CH322-98B07 2R	17558716	17579716	located_end	17558716
	estimated_end	17579716		
CH322-98B13 2R	710512	731512	located_end	710512
	estimated_end	731512		
CH322-98B15 3R	7260976	7281976	located_end	7260976
	estimated_end	7281976		
CH322-98B17 2L	7800825	7821825	located_end	7800825
	estimated_end	7821825		
CH322-98B18 2L	16835561	16856561	located_end	16835561
	estimated_end	16856561		
CH322-98B19 X	11965962	11986962	estimated_end	11965962
	located_end	11986962		
CH322-98B20 3R	12454870	12475870	located_end	12454870
	estimated_end	12475870		
CH322-98B22 2L	9751517	9772517	estimated_end	9751517
	located_end	9772517		
CH322-98C13 2R	46110	67110	located_end	46110
	estimated_end	67110		
CH322-98C15 3R	7032271	7053271	estimated_end	7032271
	located_end	7053271		
CH322-98C17 2R	7083285	7104285	estimated_end	7083285
	located_end	7104285		
CH322-98C21 2R	147079	168079	estimated_end	147079
	located_end	168079		
CH322-98C22 2R	16274076	16295076	located_end	16274076
	estimated_end	16295076		
CH322-98C24 3L	8616425	8637425	located_end	8616425
	estimated_end	8637425		
CH322-98D04 3L	11904624	11925624	located_end	11904624
	estimated_end	11925624		
CH322-98D07 3R	1012990	1033990	estimated_end	1012990
	located_end	1033990		

CH322-98D08 2R	13486628	13507628	located_end	13486628
	estimated_end	13507628		
CH322-98D13 3L	16056572	16077572	located_end	16056572
	estimated_end	16077572		
CH322-98D20 2R	13754457	13775457	estimated_end	13754457
	located_end	13775457		
CH322-98D22 3R	5174187	5195187	estimated_end	5174187
	located_end	5195187		
CH322-98D24 2L	10514208	10535208	estimated_end	10514208
	located_end	10535208		
CH322-98E03 3L	17714004	17735004	located_end	17714004
	estimated_end	17735004		
CH322-98E06 3LHet	2507877	2528877	located_end	2507877
	estimated_end	2528877		
CH322-98E08 X	18383478	18404478	located_end	18383478
	estimated_end	18404478		
CH322-98E09 3LHet	611602	632602	located_end	611602
	estimated_end	632602		
CH322-98E10 3R	19930095	19951095	estimated_end	19930095
	located_end	19951095		
CH322-98E12 3R	5271242	5292242	estimated_end	5271242
	located_end	5292242		
CH322-98E14 2R	20022680	20043680	located_end	20022680
	estimated_end	20043680		
CH322-98E17 X	15447702	15468702	located_end	15447702
	estimated_end	15468702		
CH322-98E18 X	9062027	9083027	located_end	9062027
	estimated_end	9083027		
CH322-98E22 3R	13838575	13859575	located_end	13838575
	estimated_end	13859575		
CH322-98F03 2L	18367517	18388517	estimated_end	18367517
	located_end	18388517		
CH322-98F08 3L	13831031	13852031	located_end	13831031
	estimated_end	13852031		
CH322-98F11 3R	11300574	11321574	estimated_end	11300574
	located_end	11321574		
CH322-98F14 2R	6604482	6625482	located_end	6604482
	estimated_end	6625482		
CH322-98F16 2R	12492895	12513895	estimated_end	12492895
	located_end	12513895		
CH322-98F17 3R	24983071	25004071	estimated_end	24983071
	located_end	25004071		
CH322-98F18 X	16517935	16538935	located_end	16517935
	estimated_end	16538935		
CH322-98F19 3L	13131960	13152960	located_end	13131960
	estimated_end	13152960		
CH322-98F20 2L	7312859	7333859	estimated_end	7312859
	located_end	7333859		
CH322-98F24 3L	5141757	5162757	located_end	5141757
	estimated_end	5162757		
CH322-98G01 3R	8223521	8244521	estimated_end	8223521
	located_end	8244521		
CH322-98G03 3R	5051862	5072862	estimated_end	5051862
	located_end	5072862		

CH322-98G06 X	5555581	5576581	estimated_end	5555581
located_end	5576581			
CH322-98G11 X	7999507	8020507	estimated_end	7999507
located_end	8020507			
CH322-98G17 2R	7880672	7901672	estimated_end	7880672
located_end	7901672			
CH322-98G19 3L	6346677	6367677	estimated_end	6346677
located_end	6367677			
CH322-98H02 3L	4629359	4650359	located_end	4629359
estimated_end	4650359			
CH322-98H06 2R	3571174	3592174	located_end	3571174
estimated_end	3592174			
CH322-98H12 2L	7479512	7500512	estimated_end	7479512
located_end	7500512			
CH322-98H16 3R	27606141	27627141	located_end	27606141
estimated_end	27627141			
CH322-98H18 2L	12100566	12121566	located_end	12100566
estimated_end	12121566			
CH322-98H23 3L	11196319	11217319	located_end	11196319
estimated_end	11217319			
CH322-98H24 3R	20059671	20080671	estimated_end	20059671
located_end	20080671			
CH322-98I05 3R	9477939	9498939	estimated_end	9477939
located_end	9498939			
CH322-98I08 X	19832588	19853588	estimated_end	19832588
located_end	19853588			
CH322-98I22 ArmU	7699187	7720187	estimated_end	7699187
located_end	7720187			
CH322-98J02 2L	1392814	1413814	estimated_end	1392814
located_end	1413814			
CH322-98J03 3L	1174100	1195100	estimated_end	1174100
located_end	1195100			
CH322-98J04 2R	5324497	5345497	estimated_end	5324497
located_end	5345497			
CH322-98J05 ArmU	155665	176665	located_end	155665
estimated_end	176665			
CH322-98J11 2L	437427	458427	estimated_end	437427
located_end	458427			
CH322-98J13 2L	16490013	16511013	located_end	16490013
estimated_end	16511013			
CH322-98J14 3R	25012464	25033464	located_end	25012464
estimated_end	25033464			
CH322-98J20 3R	5966778	5987778	estimated_end	5966778
located_end	5987778			
CH322-98J24 2L	9776520	9797520	estimated_end	9776520
located_end	9797520			
CH322-98K03 2L	19042764	19063764	estimated_end	19042764
located_end	19063764			
CH322-98K04 3R	16794295	16815295	estimated_end	16794295
located_end	16815295			
CH322-98K05 3R	13680912	13701912	estimated_end	13680912
located_end	13701912			
CH322-98K06 2L	21615580	21636580	estimated_end	21615580
located_end	21636580			

CH322-98K08 3R	3074878	3095878	located_end	3074878
	estimated_end	3095878		
CH322-98K15 2R	12994694	13015694	located_end	12994694
	estimated_end	13015694		
CH322-98K19 3L	19315284	19336284	estimated_end	19315284
	located_end	19336284		
CH322-98L04 3R	23309479	23330479	located_end	23309479
	estimated_end	23330479		
CH322-98L05 3L	8144459	8165459	estimated_end	8144459
	located_end	8165459		
CH322-98L06 3RHet	2469128	2490128	estimated_end	2469128
	located_end	2490128		
CH322-98L08 X	19243426	19264426	estimated_end	19243426
	located_end	19264426		
CH322-98L13 X	8185364	8206364	estimated_end	8185364
	located_end	8206364		
CH322-98L16 X	18853987	18874987	estimated_end	18853987
	located_end	18874987		
CH322-98L23 2L	21406453	21427453	estimated_end	21406453
	located_end	21427453		
CH322-98M03 3L	11234297	11255297	estimated_end	11234297
	located_end	11255297		
CH322-98M08 X	7684244	7705244	estimated_end	7684244
	located_end	7705244		
CH322-98M11 ArmU	4480885	4501885	located_end	4480885
	estimated_end	4501885		
CH322-98M12 3R	20477566	20498566	located_end	20477566
	estimated_end	20498566		
CH322-98M17 ArmU	5801463	5822463	estimated_end	5801463
	located_end	5822463		
CH322-98M19 2RHet	676048	697048	estimated_end	676048
	located_end	697048		
CH322-98M23 X	14134750	14155750	estimated_end	14134750
	located_end	14155750		
CH322-98N02 3L	11948131	11969131	estimated_end	11948131
	located_end	11969131		
CH322-98N05 X	6425111	6446111	estimated_end	6425111
	located_end	6446111		
CH322-98N06 3R	22555972	22576972	estimated_end	22555972
	located_end	22576972		
CH322-98N07 3L	5178667	5199667	located_end	5178667
	estimated_end	5199667		
CH322-98N09 3L	20283175	20304175	estimated_end	20283175
	located_end	20304175		
CH322-98N11 3L	12100524	12121524	located_end	12100524
	estimated_end	12121524		
CH322-98N12 3R	14666614	14687614	located_end	14666614
	estimated_end	14687614		
CH322-98N15 2R	6148775	6169775	located_end	6148775
	estimated_end	6169775		
CH322-98N20 X	15992692	16013692	estimated_end	15992692
	located_end	16013692		
CH322-98N22 2L	17836788	17857788	estimated_end	17836788
	located_end	17857788		

CH322-98O15 2L	7991877	8012877	estimated_end	7991877
	located_end	8012877		
CH322-98O23 3L	5536126	5557126	estimated_end	5536126
	located_end	5557126		
CH322-98P02 3R	5225842	5246842	located_end	5225842
	estimated_end	5246842		
CH322-98P06 2L	9139702	9160702	located_end	9139702
	estimated_end	9160702		
CH322-98P10 2L	20796283	20817283	estimated_end	20796283
	located_end	20817283		
CH322-98P12 3L	363377	384377	estimated_end	363377
	located_end	384377		
CH322-98P16 4	1150179	1171179	estimated_end	1150179
	located_end	1171179		
CH322-98P20 3R	20057128	20078128	estimated_end	20057128
	located_end	20078128		
CH322-98P22 3R	5373206	5394206	located_end	5373206
	estimated_end	5394206		
CH322-99A01 2R	11727468	11748468	located_end	11727468
	estimated_end	11748468		
CH322-99A02 3L	12377247	12398247	estimated_end	12377247
	located_end	12398247		
CH322-99A04 2RHet	7604 28604	located_end 7604	estimated_end	28604
CH322-99A05 2L	19202730	19223730	estimated_end	19202730
	located_end	19223730		
CH322-99A07 2L	20669126	20690126	located_end	20669126
	estimated_end	20690126		
CH322-99A09 2R	3224157	3245157	located_end	3224157
	estimated_end	3245157		
CH322-99A12 2R	19046699	19067699	located_end	19046699
	estimated_end	19067699		
CH322-99A16 3R	12482699	12503699	estimated_end	12482699
	located_end	12503699		
CH322-99A17 2L	11734957	11755957	estimated_end	11734957
	located_end	11755957		
CH322-99A21 3R	290262	311262	located_end	290262
	estimated_end	311262		
CH322-99A24 2R	216028	237028	estimated_end	216028
	located_end	237028		
CH322-99B15 X	2098481	2119481	located_end	2098481
	estimated_end	2119481		
CH322-99B23 3R	13388005	13409005	estimated_end	13388005
	located_end	13409005		
CH322-99C04 2L	10160616	10181616	estimated_end	10160616
	located_end	10181616		
CH322-99C07 2R	6143860	6164860	estimated_end	6143860
	located_end	6164860		
CH322-99C11 2L	22961610	22982610	estimated_end	22961610
	located_end	22982610		
CH322-99C15 3L	16227431	16248431	estimated_end	16227431
	located_end	16248431		
CH322-99C17 3L	19562910	19583910	located_end	19562910
	estimated_end	19583910		

CH322-99C24 X	10970394	10991394	located_end	10970394
	estimated_end	10991394		
CH322-99D01 3L	4075588	4096588	located_end	4075588
	estimated_end	4096588		
CH322-99D15 2R	6109131	6130131	located_end	6109131
	estimated_end	6130131		
CH322-99E01 3L	19986834	20007834	estimated_end	19986834
	located_end	20007834		
CH322-99E05 4	872237	893237	located_end	872237
	estimated_end	893237		
CH322-99E06 X	7894426	7915426	estimated_end	7894426
	located_end	7915426		
CH322-99E10 X	5226010	5247010	estimated_end	5226010
	located_end	5247010		
CH322-99E18 3R	6449713	6470713	estimated_end	6449713
	located_end	6470713		
CH322-99E19 ArmU	2648600	2669600	located_end	2648600
	estimated_end	2669600		
CH322-99E24 4	1124449	1145449	located_end	1124449
	estimated_end	1145449		
CH322-99F01 2L	4968392	4989392	estimated_end	4968392
	located_end	4989392		
CH322-99F04 3R	24515873	24536873	estimated_end	24515873
	located_end	24536873		
CH322-99F05 4	437428	458428	located_end	437428
	estimated_end	458428		
CH322-99F07 3L	3044641	3065641	located_end	3044641
	estimated_end	3065641		
CH322-99F20 3L	16713190	16734190	estimated_end	16713190
	located_end	16734190		
CH322-99F24 3R	3349741	3370741	located_end	3349741
	estimated_end	3370741		
CH322-99G11 3R	3881712	3902712	located_end	3881712
	estimated_end	3902712		
CH322-99G18 3L	24341326	24362326	located_end	24341326
	estimated_end	24362326		
CH322-99G20 ArmU	7447886	7468886	located_end	7447886
	estimated_end	7468886		
CH322-99G24 3L	18568654	18589654	located_end	18568654
	estimated_end	18589654		
CH322-99H11 3R	13921611	13942611	located_end	13921611
	estimated_end	13942611		
CH322-99H13 2R	9553982	9574982	estimated_end	9553982
	located_end	9574982		
CH322-99H14 3L	13880767	13901767	estimated_end	13880767
	located_end	13901767		
CH322-99H16 3R	5035700	5056700	estimated_end	5035700
	located_end	5056700		
CH322-99H23 X	15218737	15239737	located_end	15218737
	estimated_end	15239737		
CH322-99I03 3R	6496857	6517857	located_end	6496857
	estimated_end	6517857		
CH322-99I08 3R	22038212	22059212	estimated_end	22038212
	located_end	22059212		

CH322-99I18 3L	4447323	4468323	estimated_end	4447323
	located_end	4468323		
CH322-99I23 2R	7727930	7748930	located_end	7727930
	estimated_end	7748930		
CH322-99I24 3L	21400652	21421652	located_end	21400652
	estimated_end	21421652		
CH322-99J01 2L	4953675	4974675	estimated_end	4953675
	located_end	4974675		
CH322-99J03 2R	14885689	14906689	estimated_end	14885689
	located_end	14906689		
CH322-99J08 2R	19966457	19987457	estimated_end	19966457
	located_end	19987457		
CH322-99J12 3RHet	1116790	1137790	estimated_end	1116790
	located_end	1137790		
CH322-99J16 3R	16121825	16142825	estimated_end	16121825
	located_end	16142825		
CH322-99J24 3L	6280293	6301293	located_end	6280293
	estimated_end	6301293		
CH322-99K03 X	7870659	7891659	located_end	7870659
	estimated_end	7891659		
CH322-99K23 3L	6131789	6152789	located_end	6131789
	estimated_end	6152789		
CH322-99K24 2L	19811762	19832762	located_end	19811762
	estimated_end	19832762		
CH322-99L01 3L	20337930	20358930	located_end	20337930
	estimated_end	20358930		
CH322-99L05 2L	4042363	4063363	estimated_end	4042363
	located_end	4063363		
CH322-99L06 3R	138699	159699	estimated_end	138699
	located_end	159699		
CH322-99L10 ArmU	9774955	9795955	estimated_end	9774955
	located_end	9795955		
CH322-99L14 2L	4029772	4050772	estimated_end	4029772
	located_end	4050772		
CH322-99L21 3R	2173592	2194592	estimated_end	2173592
	located_end	2194592		
CH322-99L23 3L	23389460	23410460	located_end	23389460
	estimated_end	23410460		
CH322-99L24 3R	7044689	7065689	located_end	7044689
	estimated_end	7065689		
CH322-99M01 3L	5929196	5950196	estimated_end	5929196
	located_end	5950196		
CH322-99M08 3R	1139817	1160817	estimated_end	1139817
	located_end	1160817		
CH322-99M15 2R	19684478	19705478	located_end	19684478
	estimated_end	19705478		
CH322-99M23 2R	14525724	14546724	estimated_end	14525724
	located_end	14546724		
CH322-99N05 3L	10962765	10983765	estimated_end	10962765
	located_end	10983765		
CH322-99N07 2L	16074776	16095776	estimated_end	16074776
	located_end	16095776		
CH322-99N14 3R	20037373	20058373	estimated_end	20037373
	located_end	20058373		

CH322-99N24 3L	11795143	11816143	located_end	11795143
	estimated_end	11816143		
CH322-99O01 X	6586692	6607692	estimated_end	6586692
	located_end	6607692		
CH322-99O05 3R	10824836	10845836	estimated_end	10824836
	located_end	10845836		
CH322-99O17 3R	11824442	11845442	located_end	11824442
	estimated_end	11845442		
CH322-99O19 2R	8899878	8920878	estimated_end	8899878
	located_end	8920878		
CH322-99O20 3LHet	436812	457812	located_end	436812
	estimated_end	457812		
CH322-99O21 2L	11938010	11959010	located_end	11938010
	estimated_end	11959010		
CH322-99O24 3R	17123796	17144796	located_end	17123796
	estimated_end	17144796		
CH322-99P01 3R	21347733	21368733	located_end	21347733
	estimated_end	21368733		
CH322-99P02 3L	3087196	3108196	located_end	3087196
	estimated_end	3108196		
CH322-99P03 2R	17970619	17991619	estimated_end	17970619
	located_end	17991619		
CH322-99P04 2L	2143311	2164311	located_end	2143311
	estimated_end	2164311		
CH322-99P05 3L	9233407	9254407	estimated_end	9233407
	located_end	9254407		
CH322-99P21 3L	19609266	19630266	located_end	19609266
	estimated_end	19630266		
CH322-99P22 3R	3472340	3493340	located_end	3472340
	estimated_end	3493340		
CH322-99P24 2L	5893171	5914171	located_end	5893171
	estimated_end	5914171		