

NOAA COASTAL MAPPING PROGRAM PROJECT COMPLETION REPORT

PROJECT NY1406A-CM-T

Erie Canal, Waterford to Oneida Lake, New York

Introduction

Coastal Mapping Program (CMP) Project NY1406A-CM-T provides highly accurate digital shoreline data for the Erie Canal extending from Waterford to Oneida Lake, New York. NY1406A-CM-T is a sub-project of a larger project, NY1406-CM-T, which covers nearly the entire Erie Canal, from Lock 4 near Waterford to Tonawanda, NY. The Geographic Cell (GC) may be used in support of the NOAA Nautical Charting Program (NCP) as well as geographic information systems (GIS) for coastal zone management applications.

Project Design

Project NY1406-CM-T was designed per a request from the Marine Chart Division (MCD) of NOAA's Office of Coast Survey for GIS data to support an initiative to develop new charts for the New York State Canal System. Available source data deemed adequate for successful completion of this project included color orthomosaic image tiles from the New York State Digital Ortho-imagery Program (NYSDOP). The source aerial images were collected and processed from April 2010 to May 2013 and have a spatial resolution of 0.2 – 0.6 meters.

As subproject NY1406A-CM-T was nearing completion, a subsequent request was received from MCD for coverage of a new bridge over the Mohawk River at Amsterdam, New York, constructed after the NYSDOP source imagery acquisition. Two orthorectified WorldView commercial satellite images with a spatial resolution of 0.5 meters acquired in September 2015 and November 2016 were obtained to meet the request.

Field Operations

Routine CMP field operations did not apply for this project based on the origin of the project imagery, which was obtained from external sources.

Georeferencing

Refinement of the georeferencing of the orthoimage tiles used for compilation was not necessary since image positioning compared favorably spatially with sources used to verify its accuracy, and since an acceptable accuracy assessment was provided for the imagery. The source photography for the NYSDOP orthoimages was aerotriangulated and the orthoimage accuracy analysis resulted in a reported circular error of 1.2 – 2.4 meters based on a 95% confidence level (CE95). For further information on the collection and processing of the orthoimagery, including horizontal accuracy, refer to the NYSDOP metadata on file within the RSD Electronic Data Library. For the WorldView imagery, the vendor accuracy assessment resulted in a reported RMSE of 3.9 meters. All positional data for this project is referenced to the North American Datum of 1983 (NAD 83).

Compilation

Compilation of cartographic feature data for this project was accomplished by a member of the Applications Branch (AB) of the Remote Sensing Division (RSD) in November 2016. Using Esri ArcGIS desktop GIS software (v. 10.2.2), features were compiled in shapefile format from the orthoimagery. Feature attribution was assigned in compliance with the Coastal Cartographic Object Attribute Source Table (C-COAST), which provides the definition and attribution scheme for the full range of cartographic features pertinent to the CMP. Selected features were further modified with additional descriptive information to refine general classification.

Spatial data accuracies for Project NY1406A-CM-T were determined according to standard Federal Geographic Data Committee (FGDC) practices. Cartographic features were compiled to meet a horizontal accuracy at the 95% confidence level of 2.4 – 4.8 meters for features compiled from NYSDOP aerial orthoimagery, and 6.8 meters for features compiled from WorldView imagery. These predicted accuracies of compiled, well-defined points were derived by doubling the CE95 reported by the image providers. See the Image Sources Table (Appendix 1) for further information on images used. Due to seasonal meteorological conditions and manipulation of water control structures, the water levels of canals, lakes and rivers in the project area may vary, but the waterways are considered to be non-tidal.

Quality Control / Final Review

Quality control tasks were conducted during all phases of project completion by a senior member of AB. The final QC review was completed in November 2016. The review process consisted of an assessment of the identification and attribution of cartographic features according to image analysis and criteria defined in C-COAST. The quality control process concluded with an inspection of topological connectivity within the GC using ArcGIS 10.3.1. All project data was evaluated for compliance to CMP requirements. Comparisons of the largest scale NOAA nautical chart with source imagery and compiled project data resulted in creation of the Chart Evaluation File (CEF). The following nautical charts were used in the comparison process:

14786 New York State Canal System Book Chart, 1:20,000 scale, 14th Ed., Oct. 2008

End Products and Deliverables

The following specifies the location and identification of end products generated during the completion of this project:

Remote Sensing Division Electronic Data Library

- NYSDOP orthoimage metadata
- Project Completion Report (PCR)
- GC11131 in shapefile format
- Chart Evaluation File in shapefile format

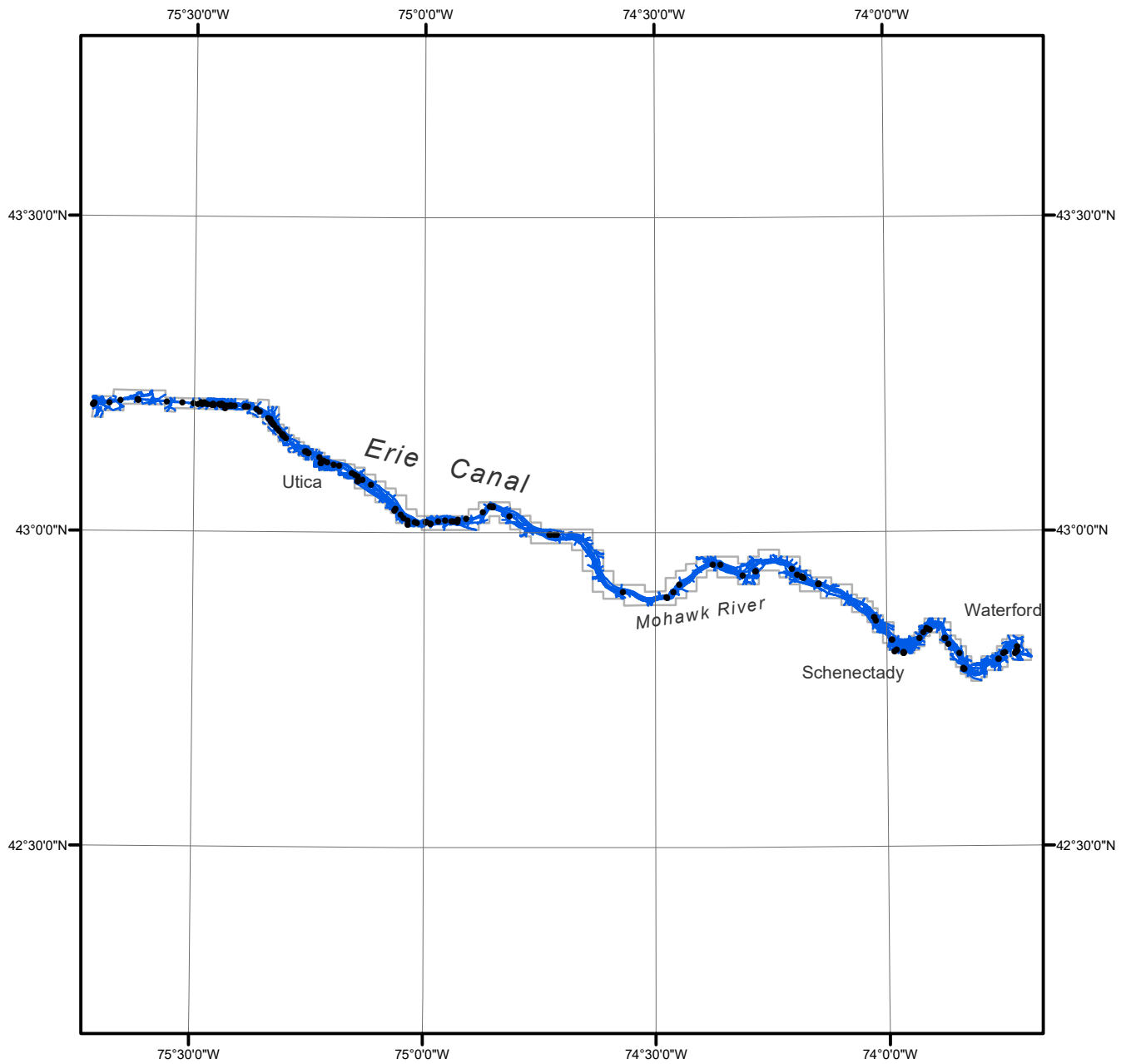
NOAA Shoreline Data Explorer

- GC11131 in shapefile format
- Metadata file for GC11131
- Digital copy of the PCR

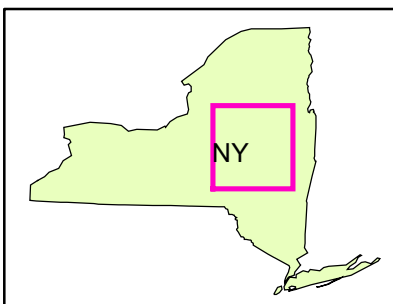
End of Report

ERIE CANAL, WATERFORD TO ONEIDA LAKE

NEW YORK



Overview



NY1406A-CM-T

GC11131

Appendix 1

Image Sources Table

Image#	Source (Tile) ID	GSD	Date	Accuracy
1	e_06691436_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
2	e_06721434_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
3	e_06721436_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
4	e_06751432_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
5	e_06751434_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
6	e_06751436_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
7	e_06751438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
8	e_06781432_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
9	e_06781434_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
10	e_06781436_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
11	e_06781438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
12	e_06811434_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
13	e_06811436_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
14	e_06811438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
15	e_06811440_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
16	e_06811442_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
17	e_06841438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
18	e_06841440_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
19	e_06841442_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
20	e_06871438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
21	e_06871440_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
22	e_06871442_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
23	e_06901438_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
24	e_06901440_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
25	e_06901442_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
26	e_06901444_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
27	e_06901446_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
28	e_06931440_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
29	e_06931442_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
30	e_06931444_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
31	e_06931446_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
32	e_06931448_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
33	e_06931450_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
34	e_06931452_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
35	e_06961446_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
36	e_06961448_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m

37	e_06961450_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
38	e_06961452_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
39	e_06961454_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
40	e_06991444_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
41	e_06991446_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
42	e_06991448_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
43	e_06991450_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
44	e_06991452_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
45	e_06991454_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
46	e_07021444_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
47	e_07021446_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
48	e_07021448_06_05000_4bd_2011	0.15 m	4/9/2011 - 5/1/2011	1.2 m
49	e_03091552_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
50	e_03091554_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
51	e_03121550_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
52	e_03121552_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
53	e_03121554_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
54	e_03121556_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
55	e_03151550_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
56	e_03151552_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
57	e_03151554_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
58	e_03151556_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
59	e_03181548_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
60	e_03181550_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
61	e_03181552_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
62	e_03181554_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
63	e_03211546_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
64	e_03211548_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
65	e_03211550_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
66	e_03211552_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
67	e_03241544_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
68	e_03241546_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
69	e_03241548_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
70	e_03241550_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
71	e_03271540_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
72	e_03271542_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
73	e_03271544_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
74	e_03271546_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
75	e_03271548_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
76	e_03301538_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
77	e_03301540_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

78	e_03301542_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
79	e_03301544_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
80	e_03331536_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
81	e_03331538_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
82	e_03331540_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
83	e_03331542_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
84	e_03331544_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
85	e_03361532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
86	e_03361534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
87	e_03361536_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
88	e_03361538_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
89	e_03361540_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
90	e_03391530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
91	e_03391532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
92	e_03391534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
93	e_03391536_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
94	e_03391538_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
95	e_03421524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
96	e_03421526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
97	e_03421528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
98	e_03421530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
99	e_03421532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
100	e_03421534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
101	e_03421536_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
102	e_03451524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
103	e_03451526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
104	e_03451528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
105	e_03451530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
106	e_03451532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
107	e_03481522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
108	e_03481524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
109	e_03481526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
110	e_03481528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
111	e_03511522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
112	e_03511524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
113	e_03511526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
114	e_03541522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
115	e_03541524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
116	e_03541526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
117	e_03571520_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
118	e_03571522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

119	e_03571524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
120	e_03571526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
121	e_03601520_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
122	e_03601522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
123	e_03601524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
124	e_03601526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
125	e_03631522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
126	e_03631524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
127	e_03631526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
128	e_03661522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
129	e_03661524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
130	e_03661526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
131	e_03691522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
132	e_03691524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
133	e_03691526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
134	e_03721522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
135	e_03721524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
136	e_03721526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
137	e_03751522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
138	e_03751524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
139	e_03751526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
140	e_03781522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
141	e_03781524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
142	e_03781526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
143	e_03811522_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
144	e_03811524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
145	e_03811526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
146	e_03841524_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
147	e_03841526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
148	e_03871526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
149	e_03871528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
150	e_03901526_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
151	e_03901528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
152	e_03901530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
153	e_03901532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
154	e_03931528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
155	e_03931530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
156	e_03931532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
157	e_03931534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
158	e_03961530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
159	e_03961532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

160	e_03961534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
161	e_03991528_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
162	e_03991530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
163	e_03991532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
164	e_03991534_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
165	e_04021530_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
166	e_04021532_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
167	e_05191494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
168	e_05191496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
169	e_05191498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
170	e_05191500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
171	e_05221496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
172	e_05221498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
173	e_05221500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
174	e_05221502_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
175	e_05251496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
176	e_05251498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
177	e_05251500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
178	e_05251502_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
179	e_05281496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
180	e_05281498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
181	e_05281500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
182	e_05311494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
183	e_05311496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
184	e_05311498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
185	e_05311500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
186	e_05611500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
187	e_05611502_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
188	e_05611504_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
189	e_05641498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
190	e_05641500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
191	e_05641502_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
192	e_05671494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
193	e_05671496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
194	e_05671498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
195	e_05671500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
196	e_05671502_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
197	e_05701492_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
198	e_05701494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
199	e_05701496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
200	e_05701498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m

201	e_05701500_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
202	e_05731490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
203	e_05731492_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
204	e_05731494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
205	e_05731496_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
206	e_05731498_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
207	e_05761488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
208	e_05761490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
209	e_05761492_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
210	e_05761494_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
211	e_05791488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
212	e_05791490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
213	e_05791492_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
214	e_05821488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
215	e_05821490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
216	e_05851486_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
217	e_05851488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
218	e_05851490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
219	e_05881484_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
220	e_05881486_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
221	e_05881488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
222	e_05881490_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
223	e_05911488_12_09600_4bd_2010	0.3 m	4/1/2010	1.2 m
224	e_05971480_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
225	e_06001478_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
226	e_06001480_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
227	e_06001482_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
228	e_06001484_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
229	e_06031476_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
230	e_06031478_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
231	e_06031480_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
232	e_06031482_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
233	e_06061472_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
234	e_06061474_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
235	e_06061476_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
236	e_06061478_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
237	e_06061480_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
238	e_06091472_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
239	e_06091474_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
240	e_06091476_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
241	e_06091478_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m

242	e_06121470_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
243	e_06121472_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
244	e_06121474_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
245	e_06121476_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
246	e_06121478_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
247	e_06151466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
248	e_06151468_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
249	e_06151470_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
250	e_06151472_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
251	e_06151474_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
252	e_06151476_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
253	e_06181460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
254	e_06181462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
255	e_06181464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
256	e_06181466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
257	e_06181468_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
258	e_06181470_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
259	e_06181472_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
260	e_06211460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
261	e_06211462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
262	e_06211464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
263	e_06211466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
264	e_06211468_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
265	e_06241454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
266	e_06241456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
267	e_06241458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
268	e_06241460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
269	e_06241462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
270	e_06241464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
271	e_06271450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
272	e_06271452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
273	e_06271454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
274	e_06271456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
275	e_06271458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
276	e_06271460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
277	e_06271462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
278	e_06271464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
279	e_06301448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
280	e_06301450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
281	e_06301452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
282	e_06301454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m

283	e_06301456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
284	e_06331448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
285	e_06331450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
286	e_06331452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
287	e_06331454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
288	e_06361448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
289	e_06361450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
290	e_06361452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
291	e_06361454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
292	e_06391448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
293	e_06391450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
294	e_06391452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
295	e_06391454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
296	e_06391456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
297	e_06421450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
298	e_06421452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
299	e_06421454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
300	e_06421456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
301	e_06421458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
302	e_06451452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
303	e_06451454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
304	e_06451456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
305	e_06451458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
306	e_06451460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
307	e_06451462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
308	e_06481458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
309	e_06481460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
310	e_06481462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
311	e_06481464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
312	e_06481466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
313	e_06511460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
314	e_06511462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
315	e_06511464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
316	e_06511466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
317	e_06541460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
318	e_06541462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
319	e_06541464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
320	e_06541466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
321	e_06571454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
322	e_06571456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
323	e_06571458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m

324	e_06571460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
325	e_06571462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
326	e_06571464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
327	e_06571466_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
328	e_06601450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
329	e_06601452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
330	e_06601454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
331	e_06601456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
332	e_06601458_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
333	e_06601460_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
334	e_06601462_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
335	e_06601464_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
336	e_06631444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
337	e_06631446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
338	e_06631448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
339	e_06631450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
340	e_06631452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
341	e_06631454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
342	e_06631456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
343	e_06661440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
344	e_06661442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
345	e_06661444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
346	e_06661446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
347	e_06661448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
348	e_06661450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
349	e_06661452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
350	e_06661454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
351	e_06691436_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
352	e_06691438_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
353	e_06691440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
354	e_06691442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
355	e_06691444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
356	e_06691446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
357	e_06691448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
358	e_06691450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
359	e_06721434_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
360	e_06721436_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
361	e_06721438_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
362	e_06721440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
363	e_06721442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
364	e_06721444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m

365	e_06751434_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
366	e_06751436_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
367	e_06751438_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
368	e_06751440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
369	e_06781436_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
370	e_06781438_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
371	e_06781440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
372	e_06811438_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
373	e_06811440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
374	e_06811442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
375	e_06811444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
376	e_06841440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
377	e_06841442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
378	e_06841444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
379	e_06871440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
380	e_06871442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
381	e_06871444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
382	e_06871446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
383	e_06901440_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
384	e_06901442_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
385	e_06901444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
386	e_06901446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
387	e_06901448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
388	e_06901450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
389	e_06931444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
390	e_06931446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
391	e_06931448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
392	e_06931450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
393	e_06931452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
394	e_06931454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
395	e_06961450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
396	e_06961452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
397	e_06961454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
398	e_06961456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
399	e_06991444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
400	e_06991446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
401	e_06991448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
402	e_06991450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
403	e_06991452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
404	e_06991454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
405	e_06991456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m

406	e_07021444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
407	e_07021446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
408	e_07021448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
409	e_07021450_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
410	e_07021452_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
411	e_07021454_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
412	e_07021456_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
413	e_07051444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
414	e_07051446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
415	e_07051448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
416	e_07081444_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
417	e_07081446_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
418	e_07081448_12_09600_4bd_2011	0.3 m	4/15/2011	1.2 m
419	e_03181544_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
420	e_03181552_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
421	e_03241540_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
422	e_03241548_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
423	e_03301536_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
424	e_03301544_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
425	e_03361536_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
426	e_03361540_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
427	e_03421528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
428	e_03421532_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
429	e_03421536_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
430	e_03481528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
431	e_03601520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
432	e_03661520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
433	e_03721520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
434	e_03721524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
435	e_03781520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
436	e_03781524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
437	e_03841520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
438	e_03841524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
439	e_03841528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
440	e_03901524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
441	e_03901528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
442	e_03901532_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
443	e_03961528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
444	e_04021524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
445	e_04021528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
446	e_04021532_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m

447	e_04081520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
448	e_04081524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
449	e_04081528_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
450	e_04141516_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
451	e_04141520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
452	e_04141524_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
453	e_04201512_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
454	e_04201516_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
455	e_04201520_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
456	e_04261512_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
457	e_04261512_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
458	e_04261516_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
459	e_04261516_24_19200_4bd_2013	0.6 m	5/14/2013	1.2 m
460	e_04321512_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
461	e_04321516_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
462	e_04381512_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
463	e_04381516_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
464	e_04441508_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
465	e_04441512_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
466	e_04441516_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
467	e_04501496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
468	e_04501500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
469	e_04501504_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
470	e_04501508_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
471	e_04501512_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
472	e_04501516_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
473	e_04561484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
474	e_04561488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
475	e_04561492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
476	e_04561496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
477	e_04561500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
478	e_04561504_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
479	e_04621480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
480	e_04621484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
481	e_04621488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
482	e_04621492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
483	e_04681480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
484	e_04681484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
485	e_04741476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
486	e_04741480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
487	e_04741484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m

488	e_04801476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
489	e_04801480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
490	e_04801484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
491	e_04861476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
492	e_04861480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
493	e_04921476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
494	e_04921480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
495	e_04981476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
496	e_04981480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
497	e_04981484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
498	e_04981488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
499	e_05041480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
500	e_05041484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
501	e_05041488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
502	e_05041492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
503	e_05101484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
504	e_05101488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
505	e_05101492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
506	e_05101496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
507	e_05161492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
508	e_05161496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
509	e_05161500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
510	e_05221496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
511	e_05221500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
512	e_05281492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
513	e_05281496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
514	e_05281500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
515	e_05341492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
516	e_05341496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
517	e_05341500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
518	e_05401488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
519	e_05401492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
520	e_05401496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
521	e_05461488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
522	e_05461492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
523	e_05461496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
524	e_05461500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
525	e_05521496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
526	e_05521500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
527	e_05521504_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
528	e_05581496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m

529	e_05581500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
530	e_05581504_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
531	e_05641492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
532	e_05641496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
533	e_05641500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
534	e_05701488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
535	e_05701492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
536	e_05701496_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
537	e_05701500_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
538	e_05761484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
539	e_05761488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
540	e_05761492_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
541	e_05821484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
542	e_05821488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
543	e_05881480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
544	e_05881484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
545	e_05881488_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
546	e_05941480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
547	e_05941484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
548	e_06001476_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
549	e_06001480_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
550	e_06001484_24_19200_4bd_2010	0.6 m	4/1/2010	2.4 m
551	c_10951166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
552	c_10951168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
553	c_10951170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
554	c_10981166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
555	c_10981168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
556	c_10981170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
557	c_11011166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
558	c_11011168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
559	c_11011170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
560	c_11041166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
561	c_11041168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
562	c_11041170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
563	c_11071166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
564	c_11071168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
565	c_11071170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
566	c_11101166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
567	c_11101168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
568	c_11101170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
569	c_11131166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

570	c_11131168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
571	c_11131170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
572	c_11161166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
573	c_11161168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
574	c_11161170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
575	c_11191166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
576	c_11191168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
577	c_11191170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
578	c_11221166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
579	c_11221168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
580	c_11221170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
581	c_11251166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
582	c_11251168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
583	c_11251170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
584	c_11281166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
585	c_11281168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
586	c_11281170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
587	c_11311166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
588	c_11311168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
589	c_11311170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
590	c_11341166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
591	c_11341168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
592	c_11341170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
593	c_11371166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
594	c_11371168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
595	c_11371170_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
596	c_11401164_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
597	c_11401166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
598	c_11401168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
599	c_11431162_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
600	c_11431164_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
601	c_11431166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
602	c_11431168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
603	c_11461162_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
604	c_11461164_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
605	c_11461166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
606	c_11461168_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
607	c_11491158_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
608	c_11491160_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
609	c_11491162_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
610	c_11491164_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

611	c_11491166_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
612	c_11521154_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
613	c_11521156_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
614	c_11521158_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
615	c_11521160_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
616	c_11521162_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
617	c_11521164_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
618	c_11551152_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
619	c_11551154_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
620	c_11551156_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
621	c_11551158_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
622	c_11551160_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
623	c_11581148_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
624	c_11581150_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
625	c_11581152_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
626	c_11581154_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
627	c_11581156_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
628	c_11611146_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
629	c_11611148_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
630	c_11611150_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
631	c_11611152_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
632	c_11611154_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
633	c_11641142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
634	c_11641144_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
635	c_11641146_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
636	c_11641148_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
637	c_11641150_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
638	c_11671142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
639	c_11671144_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
640	c_11671146_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
641	c_11671148_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
642	c_11701140_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
643	c_11701142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
644	c_11701144_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
645	c_11701146_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
646	c_11731138_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
647	c_11731140_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
648	c_11731142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
649	c_11731144_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
650	c_11761138_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
651	c_11761140_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m

652	c_11761142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
653	c_11791134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
654	c_11791136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
655	c_11791138_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
656	c_11791140_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
657	c_11791142_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
658	c_11821132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
659	c_11821134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
660	c_11821136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
661	c_11821138_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
662	c_11821140_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
663	c_11851132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
664	c_11851134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
665	c_11851136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
666	c_11851138_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
667	c_11881132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
668	c_11881134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
669	c_11881136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
670	c_11911132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
671	c_11911134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
672	c_11911136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
673	c_11941130_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
674	c_11941132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
675	c_11941134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
676	c_11941136_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
677	c_11971132_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
678	c_11971134_12_09600_4bd_2013	0.3 m	4/22/2013	1.2 m
679	c_10441160_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
680	c_10441164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
681	c_10441168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
682	c_10501160_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
683	c_10501164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
684	c_10501168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
685	c_10561164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
686	c_10561168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
687	c_10621164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
688	c_10621168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
689	c_10621172_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
690	c_10681168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
691	c_10681172_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
692	c_10741168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m

693	c_10741172_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
694	c_10801168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
695	c_10801172_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
696	c_10861168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
697	c_10861172_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
698	c_10921164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
699	c_10921168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
700	c_11461164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
701	c_11461168_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
702	c_11521160_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
703	c_11521164_24_19200_4bd_2013	0.6 m	5/6/2013	1.2 m
704	20150919_1601_WV2_ORI_R1C1	0.5 m	9/19/2015	3.9 m
705	20161104_1859_WV1_ORI_R1C1	0.5 m	11/4/2016	3.9 m