DuPont Corporate Remediation Group
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Building 35 3rd Floor
Niagara Falls, NY 14302
(716) 278-5100

November 27, 2012

Ms. Gloria Sosa
Western New York Remediation Section
New York Remediation Branch
Emergency and Remediation Response Division
U.S. Environmental Protection Agency – Region 2
290 Broadway, 20th Floor
New York, NY 10007-1866

Dear Ms. Sosa:

NECCO PARK THIRD QUARTER 2012 DATA PACKAGE

Enclosed are two copies of the *Third Quarter 2012 (3Q12) Data Package* for the E. I. du Pont de Nemours and Company (DuPont) Necco Park Hydraulic Control System (HCS) in accordance with the approved Long Term Groundwater Monitoring Plan. The data package includes an operational summary, process sample analytical data, figures showing hydrographs, potentiometric surface contours map, and vertical gradient maps. The data package also includes a 3Q12 monitoring summary for dense non-aqueous phase liquid (DNAPL).

Pumping system uptime for 3Q12 was 89.1 percent. The total volume of groundwater treated was 3,913,978 gallons. No recoverable DNAPL was observed during the period.

Please contact me at (716) 278-5496 if you have any questions or comments regarding this submittal.

Sincerely,

CORPORATE REMEDIATION GROUP

Paul F. Mazierski
Project Director

PFM/EAF
Enc.

cc: M. Hinton/NYSDEC
E. Felter/Parsons
Carol Luttrell/DuPont (elec.)
T. Pezzino/URS

SOURCE AREA HYDRAULIC CONTROL SYSTEM
THIRD QUARTER 2012
GROUNDWATER MONITORING DATA PACKAGE
DUPONT NECCO PARK
NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

EPA ID No. NYD980532162

Prepared For:

DuPont Corporate Remediation Group

Buffalo Avenue and 26th Street
Niagara Falls, New York 14302

Prepared By:

PARSONS

40 La Riviere Drive, Suite 350
Buffalo, New York 14202
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November 2012

TABLE OF CONTENTS

Page

TABLES

FIGURES

APPENDICES

ATTACHMENT 1

Electronic Copy of Groundwater Elevation Data - Third Quarter 2012

SECTION 1

DATA PACKAGE SUMMARY

1.1 INTRODUCTION

This data package presents a summary of operating and monitoring data collected during the third quarter of 2012 (3Q12) for groundwater remediation measures at the E. I. du Pont de Nemours and Company (DuPont) NECCO Park Site (Necco Park) in Niagara Falls, New York. Submission of this data package meets the reporting requirements defined in the agency-approved Long-Term Groundwater Monitoring Plan (LTGMP) and the Sampling, Analysis, and Monitoring Plan (SAMP), which are both incorporated into the DuPont Necco Park Operations and Maintenance Plan (DuPont Corporate Remediation Group 2005). Furthermore, this data package reflects revisions in the monitoring program that were detailed in a December 8, 2011 proposal by DuPont and approved by the U.S. Environmental Protection Agency (USEPA 2012). The revisions included: a revised water level monitoring program, elimination of AT-Zone monitoring, reduction of quarterly process sample analysis to VOCs only, clarification of the notification of downtime process, substitution of hydrographs for the drawdown analyses, and clarification of the source area criteria.

This is the 29th data package submitted since the 2005 startup of the Necco Park Hydraulic Control System (HCS). It provides a summary of operations for the pumping wells and the Groundwater Treatment Facility (GWTF). Figures 1 through 13 are hydrographs depicting groundwater elevation since startup of the HCS, contours for six groundwater flow zones, and a map of vertical gradients between the A-Zone and the B-Zone. Groundwater elevation data are provided as a hard copy in Appendix A and as an electronic copy in Attachment 1.

1.2 OPERATIONAL SUMMARY

The following table provides a summary of average HCS uptime, total gallons of groundwater treated, and gallons of dense non-aqueous phase liquid (DNAPL) removed for 3Q12:

	HCS Uptime (%)	Groundwater Treated (gallons)	DNAPL Removed (gallons)
July	81.5%	1,165,477	0
August	97.3%	1,398,226	0
September	88.4%	1,350,275	0
3Q12 Total	**89.1%**	**3,913,978**	**0**

System downtime is categorized into two groups: individual recovery well downtime and HCS system downtime. Table 1 summarizes the three individual recovery well downtimes that exceeded a 48-hour period during 3Q12. RW-11 was down for 61.5 hours from June 29 through July 2, 2012 due to a local low pH interlock. RW-4, RW-5, and RW-11 were down for 56.5 hours due to a pH interlock in tank T-102 from July 27 and July 30, 2012. RW-5 was down for 55.5 hours from August 31 through September 4, 2012 due to a low flow alarm. There was no reportable scheduled HCS downtime during the quarter. Table 2 provides an historical operations summary by quarter since HCS operations began.

Monthly NAPL monitoring was completed during 3Q12. Six additional semi-annual wells were checked for the presence of DNAPL on September 10, 2012. No measurable thickness of DNAPL was observed in any of the wells during the monthly monitoring during the quarter. As such, no DNAPL was removed during the quarter. Trace DNAPL was noted in well 204C during each of the three monitoring events and trace DNAPL was also noted at location VH-139C during the September monitoring event.

1.3 GWTF PROCESS SAMPLING

GWTF influent samples (from B/C-Zone and D/E/F-Zone) and a combined effluent sample were collected in 3Q12 in accordance with the SAMP. The laboratory parameter list was reduced to VOCs only in January 2012. Samples were collected by TestAmerica Laboratories of Amherst, New York, on August 28, 2012, and shipped to the TestAmerica Laboratories in North Canton, Ohio, for analysis. Sample results for the process sampling are included in Appendix B.

1.4 POTW COMPLIANCE

As required by the publicly-owned treatment works (POTW) discharge permit for Necco Park, the GWTF discharge is sampled and reported quarterly to the Niagara Falls Water Board. The Necco Park 3Q12 wastewater samples were collected on July 6th, July 11th and August 6th as part of the "City Split" sampling compliance. There were no permit limit exceedances for the quarter. The Necco POTW discharge permit was renewed in May 2009 and remains valid through May 1, 2014.

1.5 WELL REHABILITION

As part of well maintenance activities, recovery wells RW-4, RW-5 and RW-11 were hydraulically rehabilitated during the period from September 4th to September 7th. Although historical pumping well rehabilitation events have focused on RW-5, this event also included wells RW-4 and RW-11. This is the first time RW-4 has been rehabilitated since it was installed in 2001, and the third time RW-11 has been rehabilitated since it was installed in 2008. The hydraulic rehabilitation involved vacuuming any sediment accumulation in the bottom of the well and pressure washing the well borehole and screen (or open borehole). This was a fairly new technique for the wells, as historically rehabilitation consisted of air sparging sediments from the wells and mechanically scrubbing the borehole walls with a metal brush. This newer technique allowed for safer removal of the sediments, control of any vapors emitted from the well, and allowed for larger quantities of water to be withdrawn at a high pumping rate (i.e. over-pumping) during sediment removal. At RW-4, the flow rates were distinctively better after the

rehabilitation event than before, improving from an average of approximately 0.3 - 0.5 gpm to 1.3 – 1.8 gpm, based on the same well set point. At RW-5, the flow rates were similar before and after the event and similar to historical rates, while a nominal amount of sediment was removed from the bottom of the well. At RW-11 the well efficiency was improved by the rehabilitation, as observed by the similar pre and post rehabilitation flow rates (approximated 6-7 gpm) while using a higher well set point (the well was reverted to the typical set point after the rehabilitation).

SECTION 2

REFERENCES

DuPont Corporate Remediation Group, 2005. DuPont Necco Park Operations and Maintenance Plan. November 11, 2005.

DuPont Corporate Remediation Group, 2011. Letter regarding revisions to DuPont NECCO Park Groundwater Monitoring Program, December 8, 2011.

USEPA, 2012. Letter approving changes to the monitoring program, January 27, 2012

TABLES

Table 1
Individual Well Shutdown Summary for 3Q12
DuPont Necco Park

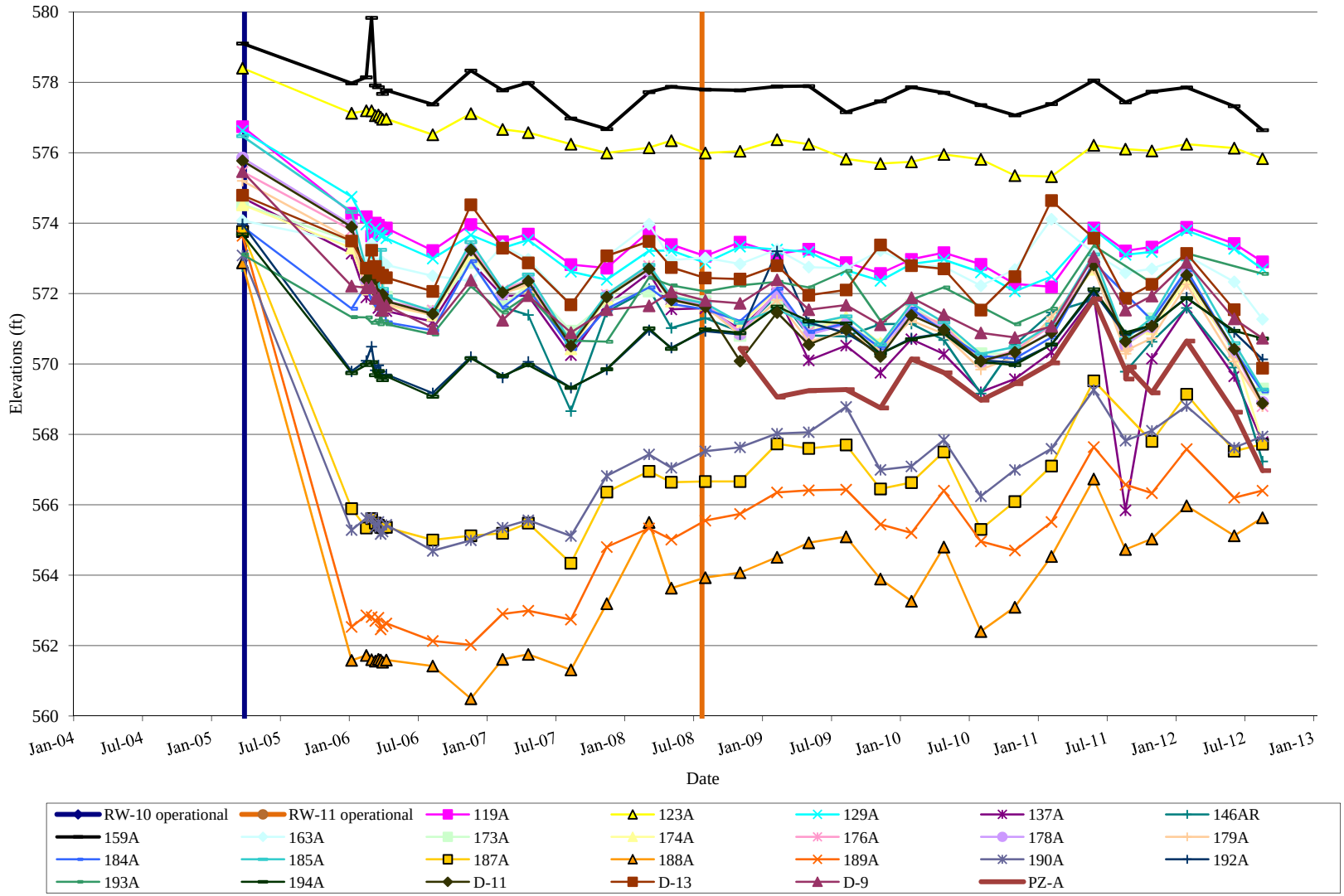
	Well ID	Date(s)	Length of Shutdown (hours)	Reason for Shutdown	Remarks
July	RW-11	June 29 through July 2	61.5	Local low pH probe interlock	Unscheduled
	RW-4, RW-5, and RW-11	July 27 through July 30	56.5	T-102 low pH interlock	Unscheduled
August	RW-5	August 31 through September 4	55.5	Low flow alarm	Unscheduled
September					No wells were down greater than 48 hours in September 2012

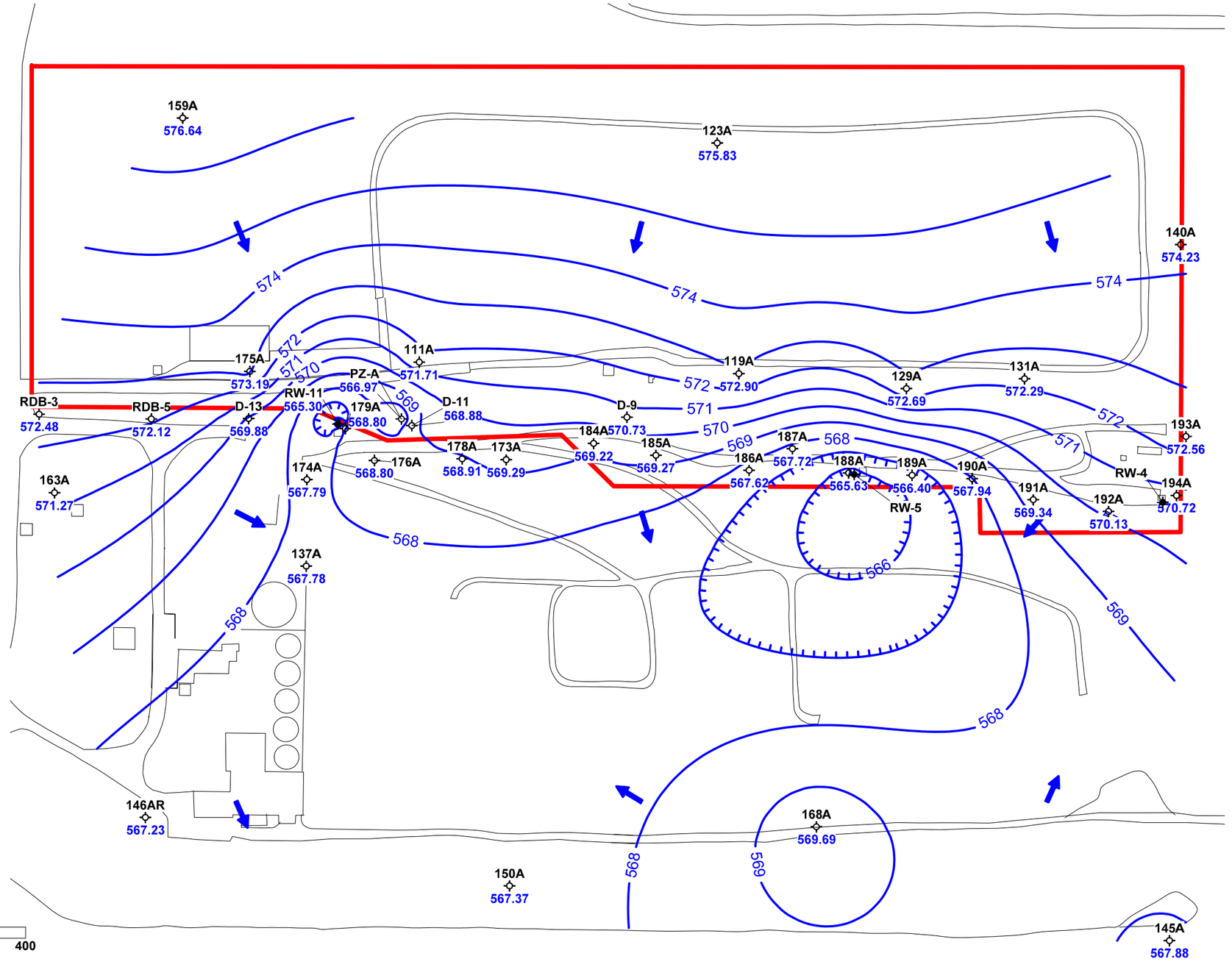
Table 2
Historical HCS Operational Summary - 3Q12
DuPont Necco Park

Reporting Period	HCS Uptime (%)	HCS Uptime Excluding Scheduled Maintenance Downtime (%)	Groundwater Treated (Gallons)	DNAPL Removed (Gallons)
2Q05	97.3	97.6	3,349,590	73.5
3Q05	89.3	91.4	3,117,280	30
4Q05	93.6	96.5	3,225,819	0
1Q06	99.4	99.4	2,889,134	24
2Q06	97.5	98.1	3,486,835	74
3Q06	88.7	90.9	3,181,365	28
4Q06	91.0	93.8	2,787,745	25
1Q07	91.2	91.2	2,638,005	15
2Q07	93.8	94.2	2,882,064	52
3Q07	92.0	92.5	3,497,149	51
4Q07	91.2	92.0	2,697,915	35
1Q08	92.6	93.5	2,761,674	65
2Q08	95.9	95.9	2,902,261	279
3Q08	77.2	80.0	3,112,202	124
4Q08	70.3	72.2	3,468,710	44
1Q09	88.7	89.6	4,442,026	0
2Q09	95.0	95.0	4,117,084	0
3Q09	95.3	95.3	4,069,280	0
4Q09	95.8	95.8	3,663,740	0
1Q10	98.3	98.3	3,921,478	90
2Q10	77.0	100.0	3,259,485	0
3Q10	100.0	100.0	3,398,078	0
4Q10	93.8	99.1	3,195,727	0
1Q11	94.6	97.6	3,679,957	70
2Q11	89.6	89.6	3,370,066	48
3Q11	91.7	96.2	2,947,721	0
4Q11	86.5	91.4	3,167,844	12
1Q12	93.6	93.6	3,138,892	0
2Q12	94.3	94.3	3,926,572	72
3Q12	89.1	89.8	3,913,978	0
TOTALS	**---**	**---**	**100,209,676**	**1,212**
AVERAGE	**91.5**	**93.5**	**---**	**---**

FIGURES

Figure 1
Select A-Zone Monitoring Wells
Groundwater Elevations 2005 Through 3rd Quarter 2012
DuPont Necco Park





Scale: Feet

0 100 200 300 400

Contour Interval = 1 foot **Elevation datum feet AMSL**

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Project Manager: EAF	Date: 10-24-12

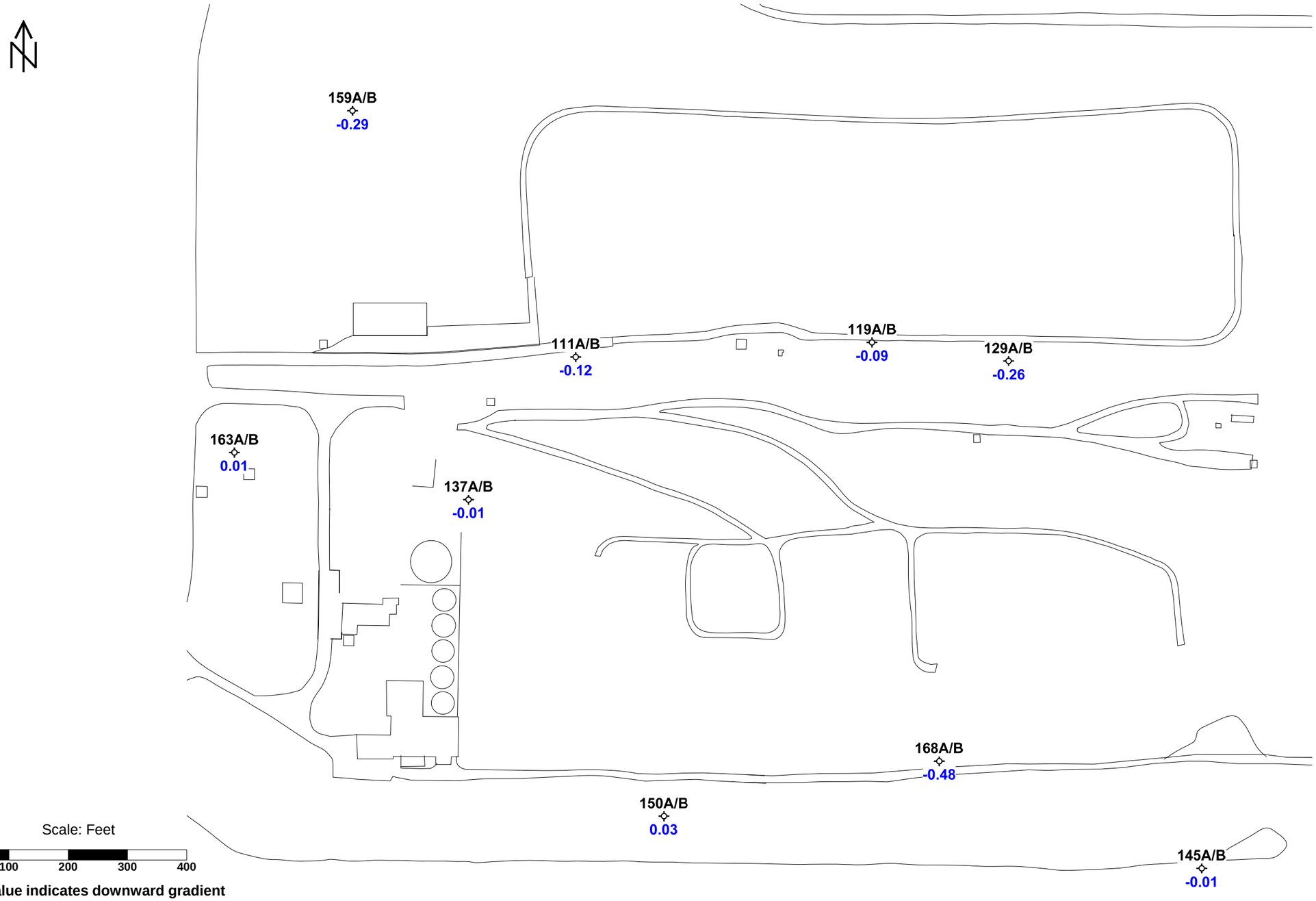
Job number: 445357.02023

LEGEND

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Structure
- Road
- Source Area Extent

Figure 2
Potentiometric Surface Map
DuPont Necco Park: A-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - A PZ - F2.srf



Scale: Feet

0 100 200 300 400

Negative value indicates downward gradient

Elevation datum feet AMSL

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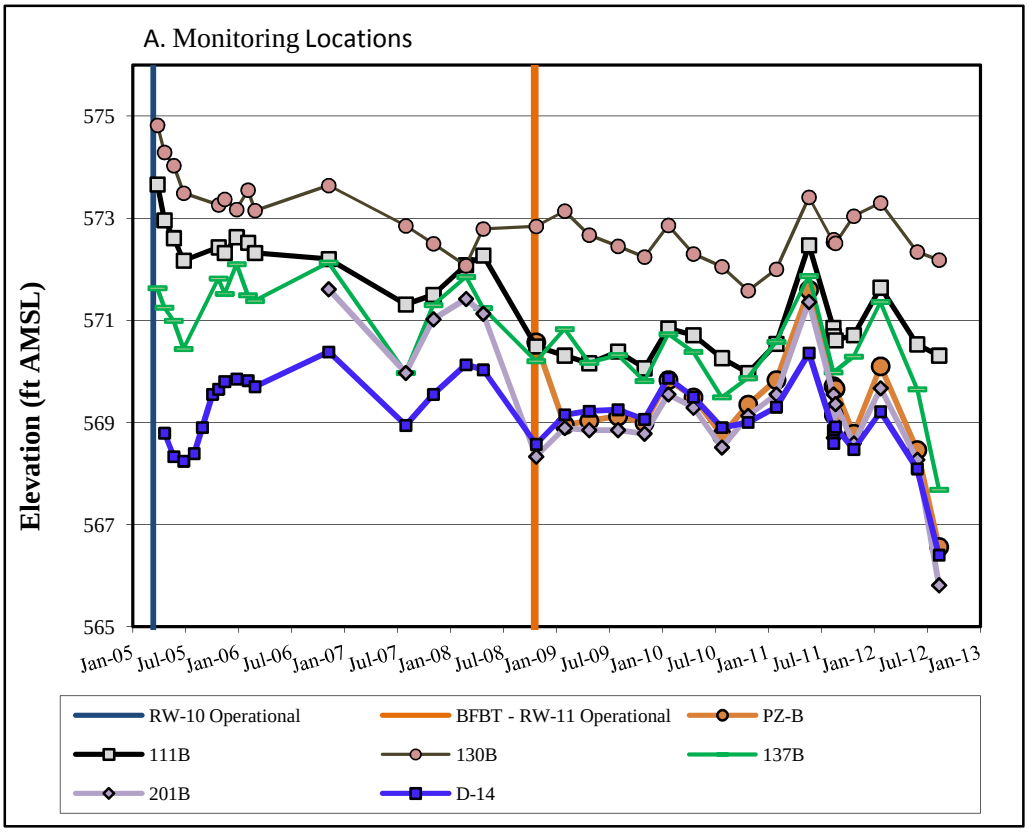
LEGEND

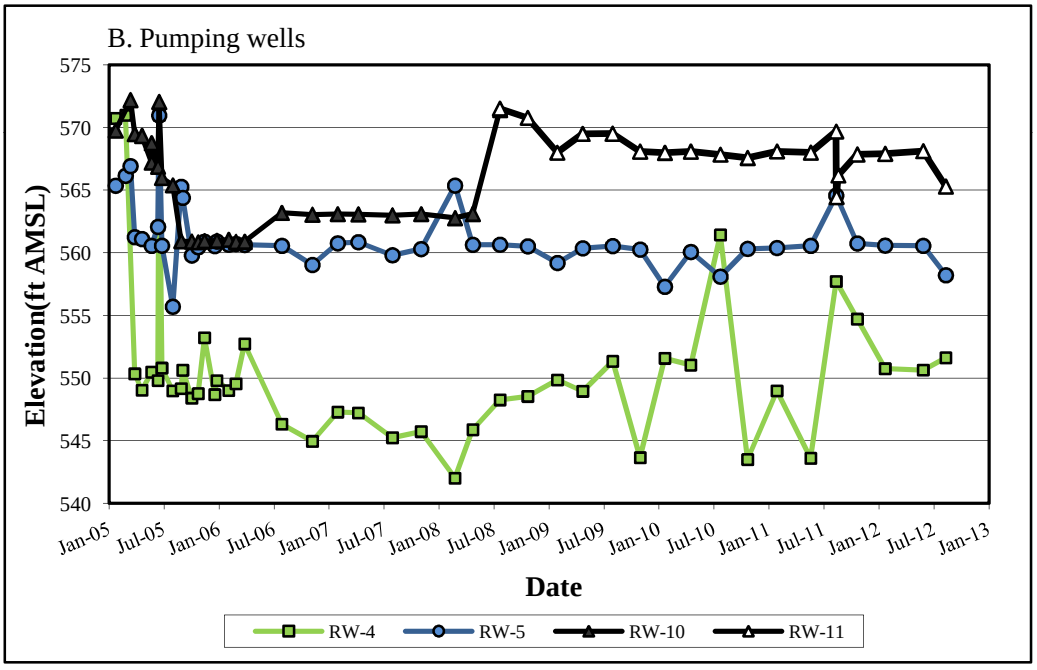
- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Road
- Structure

Figure 3
Vertical Gradient: A-Zone to B-Zone
DuPont Necco Park
August 28, 2012

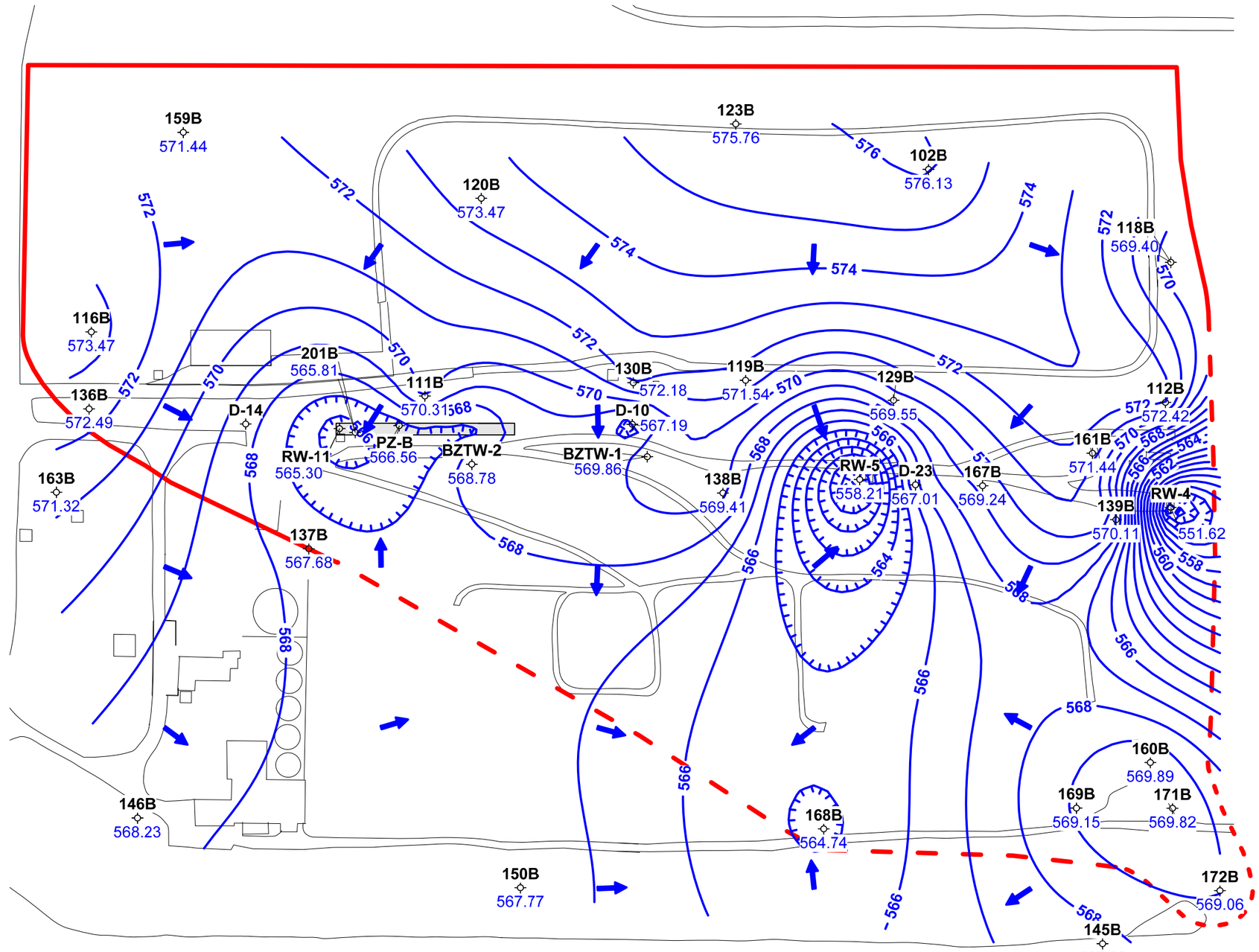
U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - ABvgrad - F3.srf

Figure 4
Select B-Zone Monitoring Wells
Groundwater Elevations 2005 through 3rd Quarter 2012





Necco 2012 B Zone Water Elev Trends.xlsx



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 foot
Elevation datum feet AMSL
Wells 149B and 151B are outside the area shown, but were used in the contouring.
Wells 170B, TRW-6, and TRW-7 were not used in the contouring.

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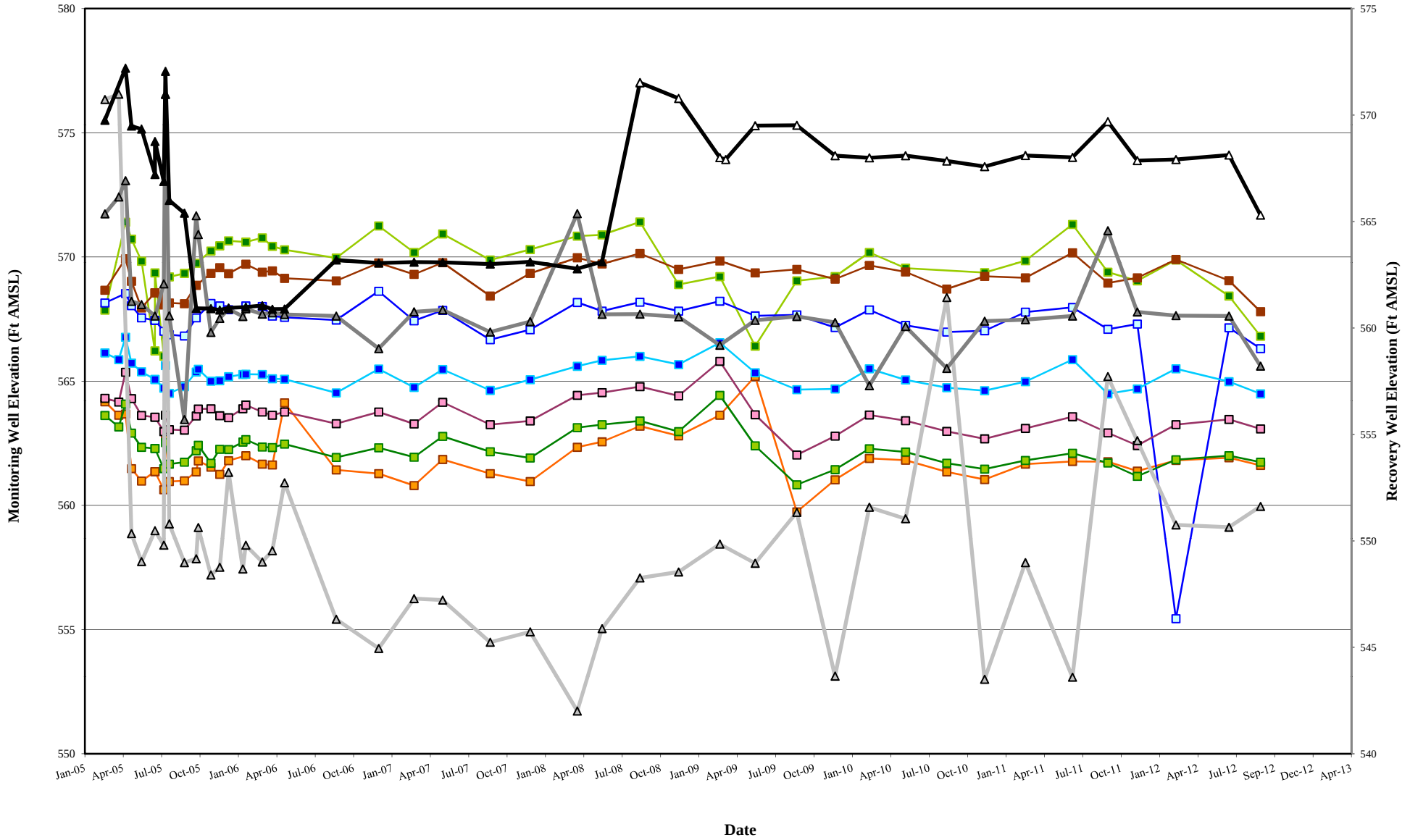
LEGEND

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Structure
- Road
- Source Area Extent
- Bedrock Fractured Blast Trench

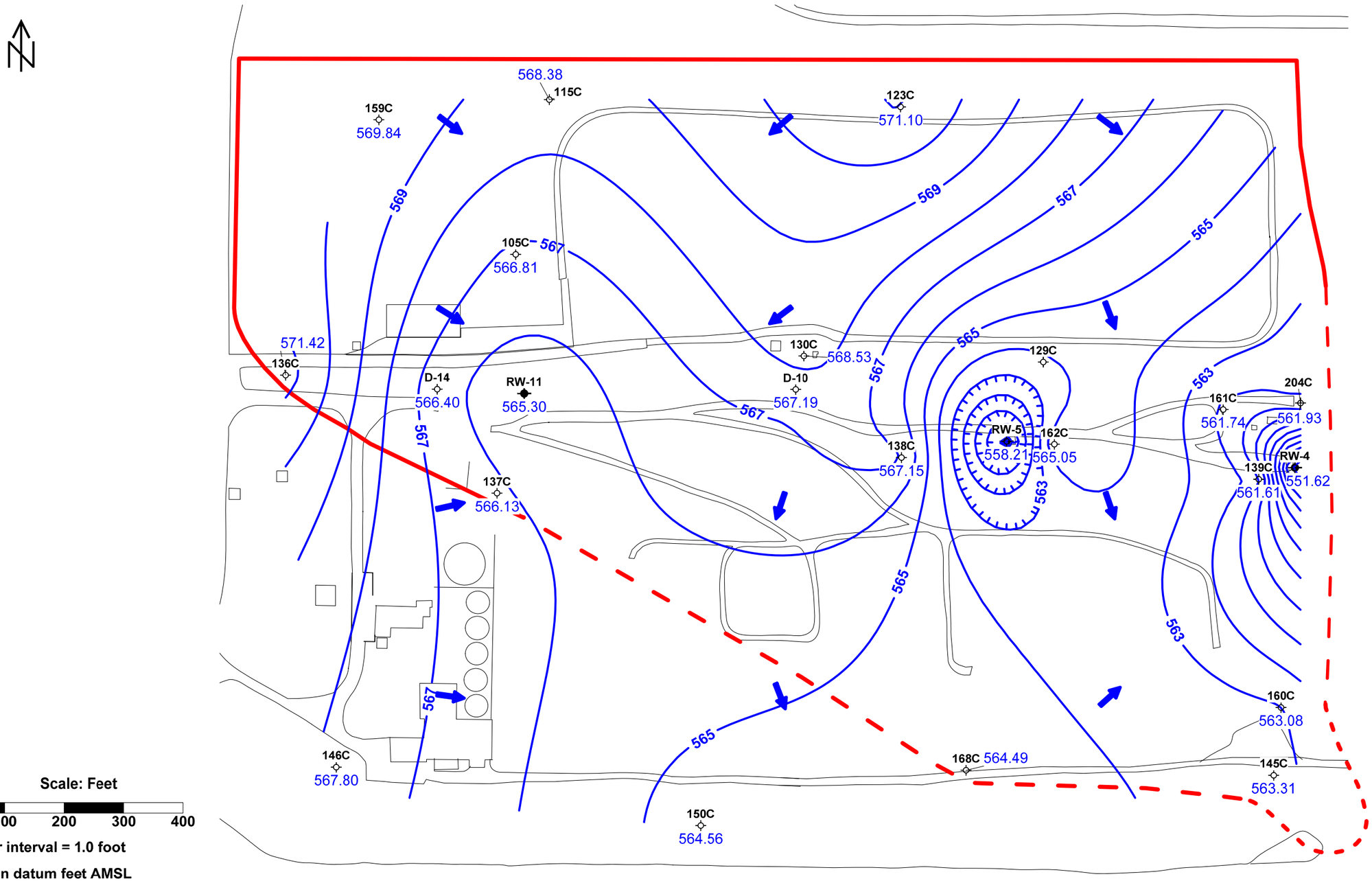
Figure 5
Potentiometric Surface Map
DuPont Necco Park: B-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - PZ B - F5.srf

Figure 6
Select C-Zone Monitoring Wells
Groundwater Elevations 2005 Through 3rd Quarter 2012
DuPont Necco Park



Necco 2012 C Zone Water Elev Trends.xlsx



Well 129C was not used in the contouring due to anomalously high readings.
Well 112C was not used in the contouring due to suspect casing.

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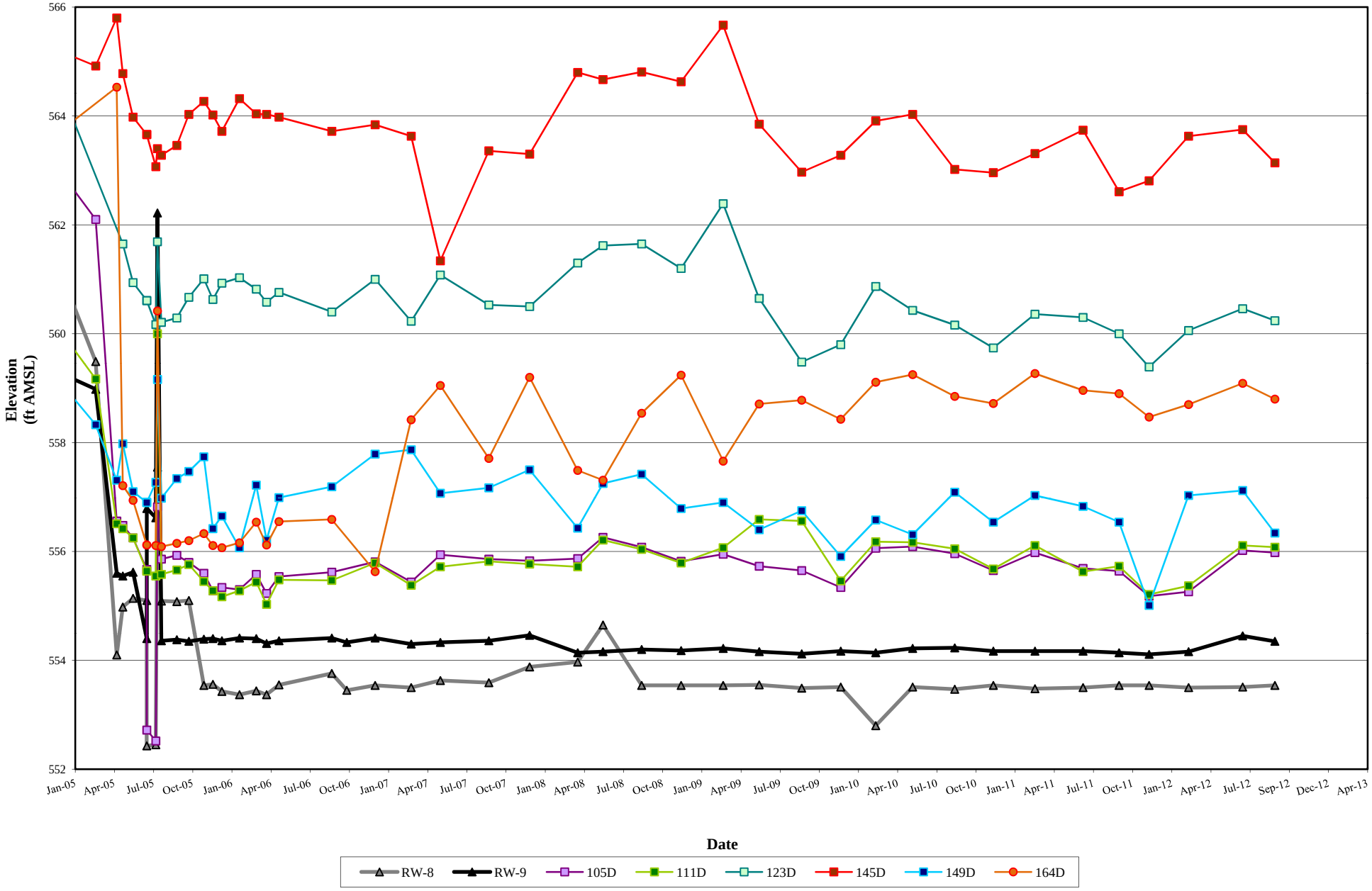
LEGEND

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Structure
- Road
- Source Area Extent

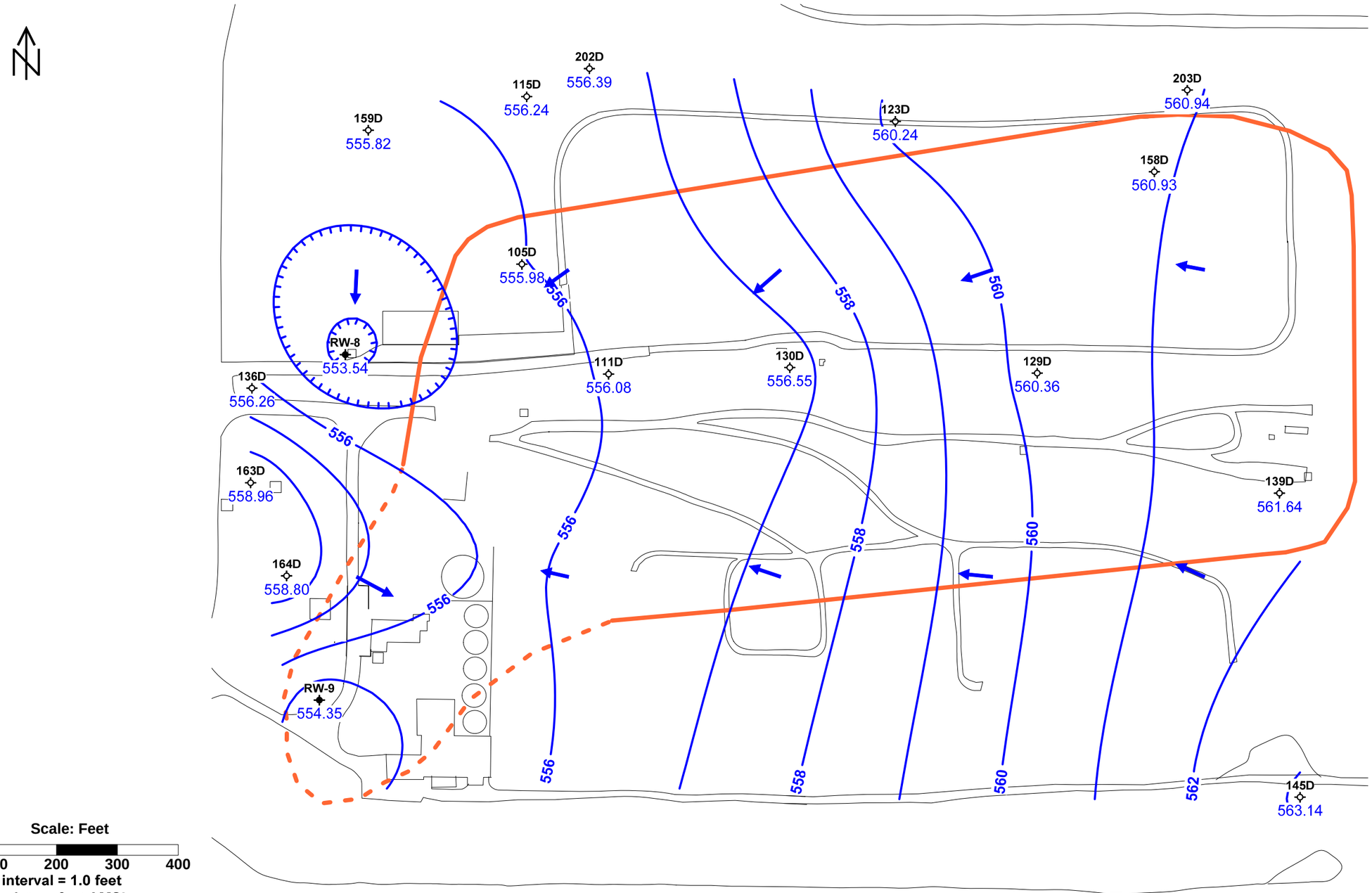
Figure 7
Potentiometric Surface Map
DuPont Necco Park: C-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - PZ C - F7.srf

Figure 8
Select D-Zone Monitoring Wells
Groundwater Elevations 2005 through 3rd Quarter 2012
DuPont Necco Park



Necco 2012 D Zone Water Elev Trends.xlsx



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 feet

Elevation datum feet AMSL

Well 149D, located outside the map area, was used in the contour interpolation.

Well 148D located downgradient was not used in the interpolation.

Well 165D was not used in the contour interpolation.

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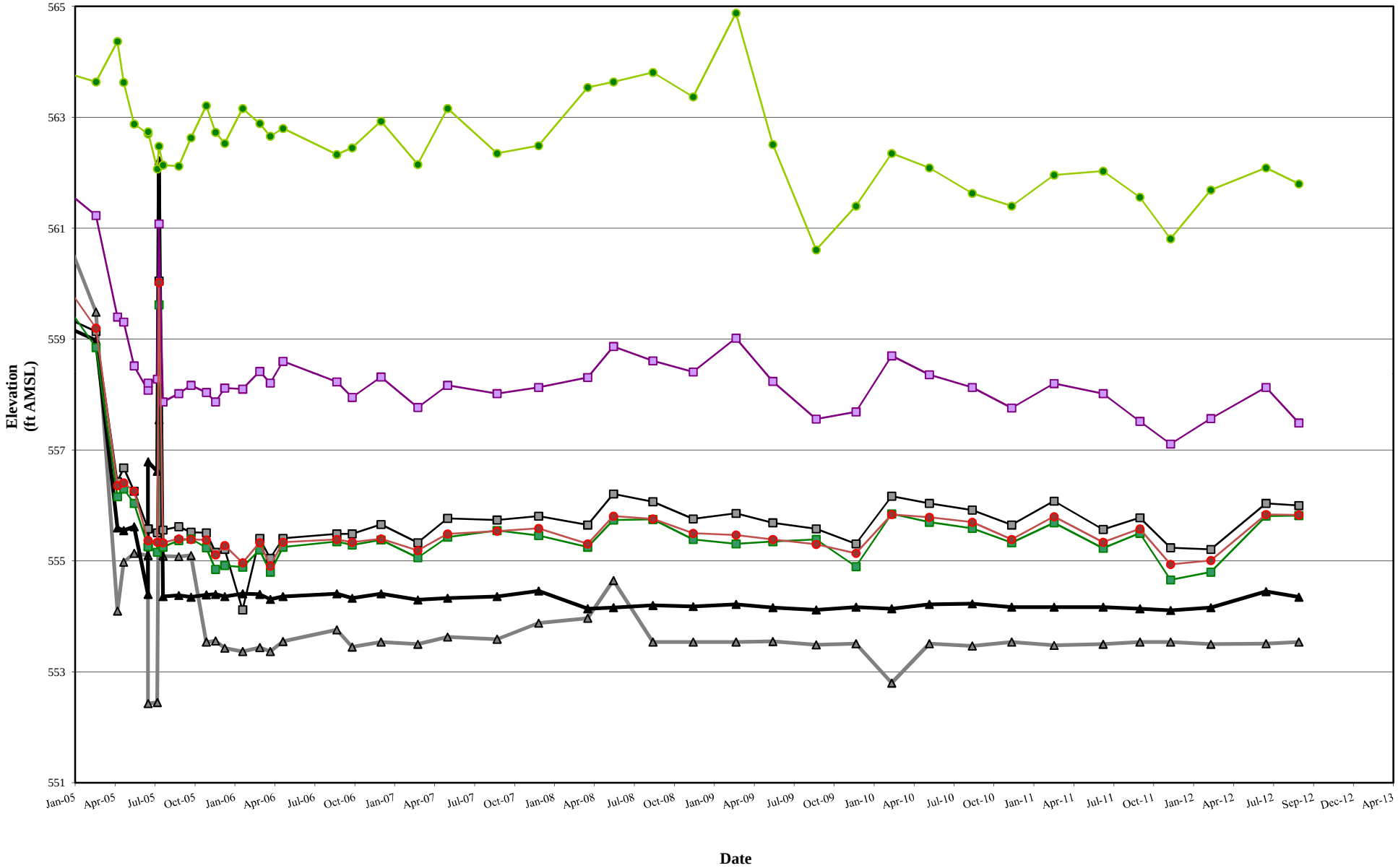
LEGEND

- 3B — Well ID
- Monitoring Well
- Pumping Well
- Potentiometric Contour
- Structure
- Road
- Source Area Extent

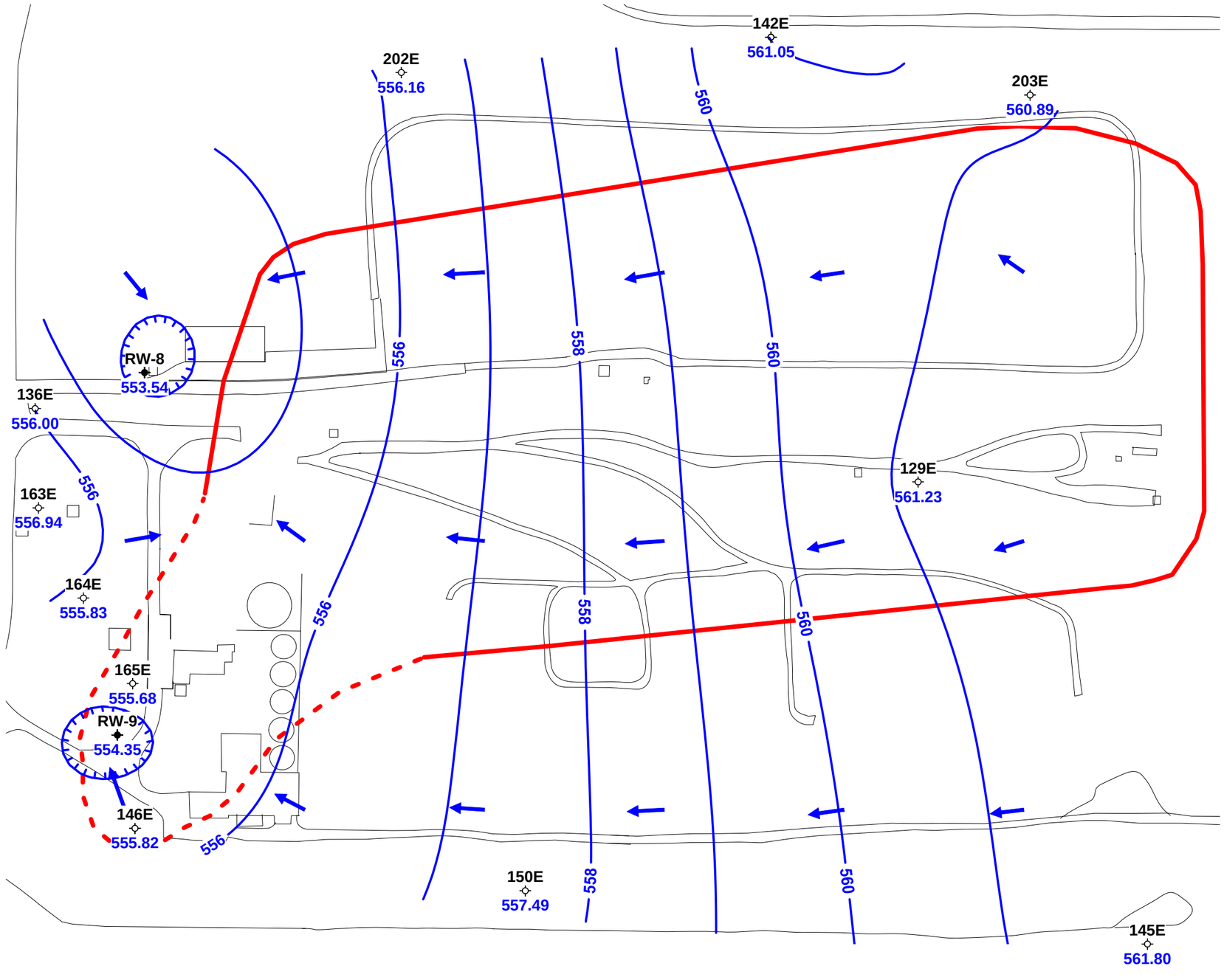
Figure 9
Potentiometric Surface Map
DuPont Necco Park: D-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - PZ D - F9.srf

Figure 10
Select E-Zone Monitoring Wells
Groundwater Elevations 2005 Through 3rd Quarter 2012
DuPont Necco Park



Necco 2012 E Zone Water Elev Trends.xlsx



Scale: Feet

0 100 200 300 400

Contour interval = 1.0 foot

Elevation datum feet AMSL

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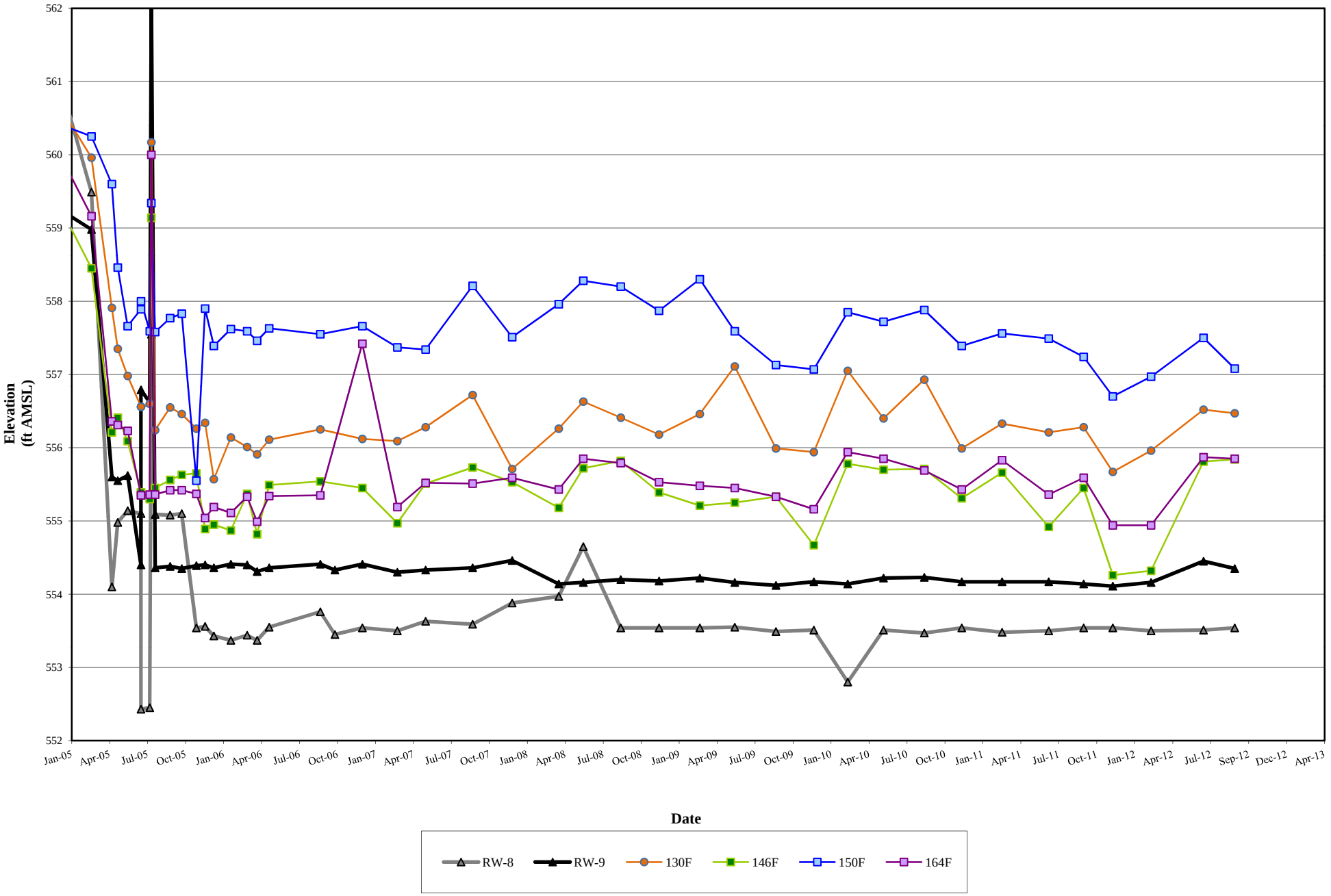
LEGEND

3B	Well ID	Potentiometric Contour	Source Area Extent
☼	Monitoring Well	Structure	
✦	Pumping Well	Road	

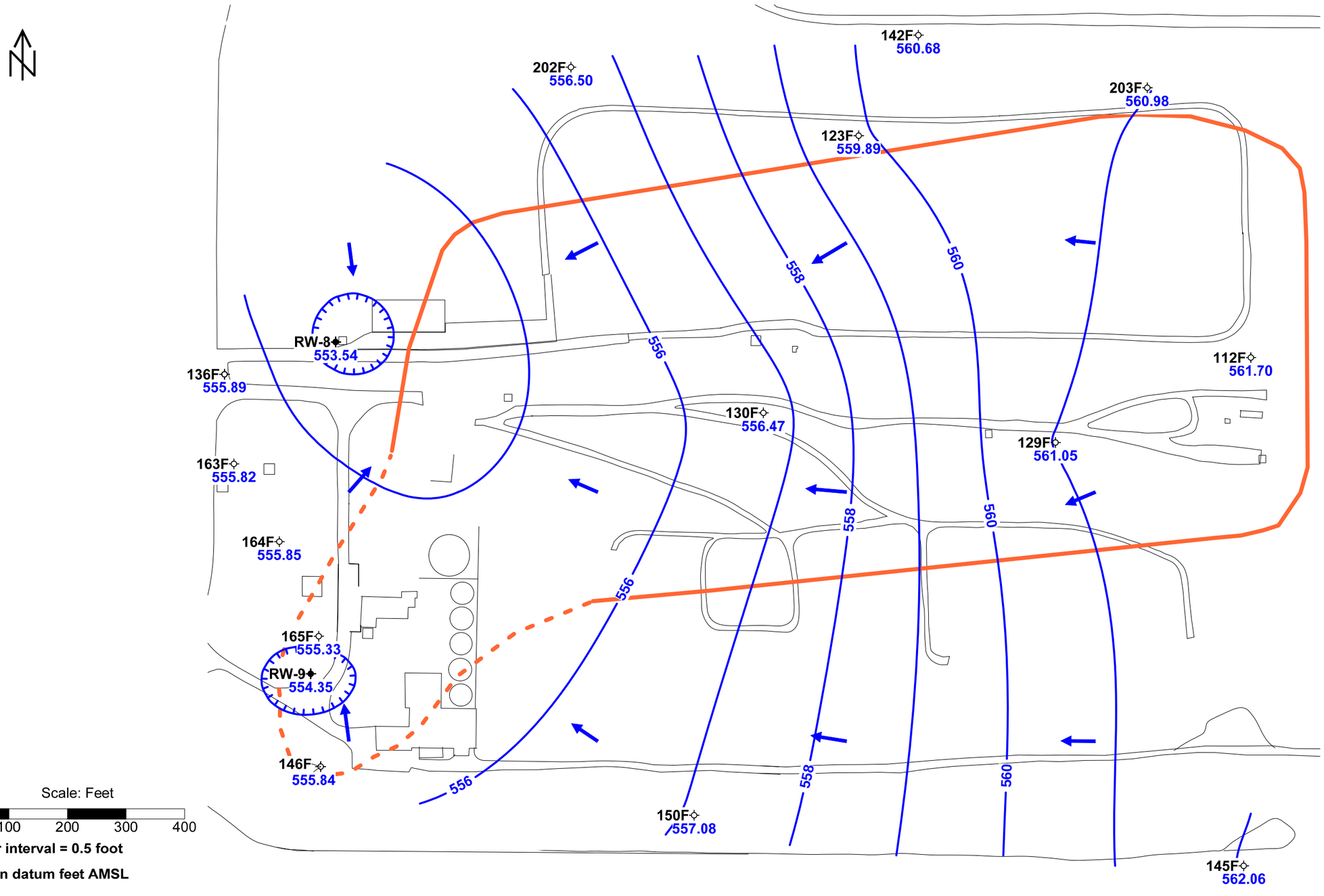
Figure 11
Potentiometric Surface Map
DuPont Necco Park: E-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - PZ E - F11.srf

Figure 12
Select F-Zone Monitoring Wells
Groundwater Elevations 2005 Through 3rd Quarter 2012
DuPont Necco Park



Necco 2012 F Zone Water Elev Trends.xlsx



Contour interval = 0.5 foot

Elevation datum feet AMSL

148F located downgradient was not used in the interpolation

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Job number: 445357.02023	

LEGEND

3B	Well ID	Potentiometric Contour	Source Area Extent
☼	Monitoring Well	Structure	
✦	Pumping Well	Road	

Figure 13
Potentiometric Surface Map
DuPont Necco Park: F-Zone
August 28, 2012

U:/Necco/HydroGeo/Hydro/GW_contours/2012-08-28 NEC Contour Tool/2012-08-28 - PZ F - F13.srf

APPENDIX A

GROUNDWATER ELEVATION DATA
THIRD QUARTER 2012

APPENDIX A
GROUNDWATER ELEVATION DATA - 3Q12

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
136F	08/28/12	24.44	580.33	555.89	1110
136G	08/28/12	18.09	579.76	561.67	1111
136E	08/28/12	23.59	579.59	556.00	1112
136D	08/28/12	23.42	579.68	556.26	1113
136C	08/28/12	10.20	581.62	571.42	1114
136B	08/28/12	9.20	581.69	572.49	1115
116B	08/28/12	16.58	590.05	573.47	1135
RW-8	08/28/12	31.98	585.52	553.54	1136
RDB-5	08/28/12	6.45	578.57	572.12	1117
BZTW-4	08/28/12	6.07	578.18	572.11	1118
163A	08/28/12	6.87	578.14	571.27	1131
163B	08/28/12	6.62	577.94	571.32	1130
163D	08/28/12	19.86	578.82	558.96	1129
163E	08/28/12	22.12	579.06	556.94	1128
163F	08/28/12	22.94	578.76	555.82	1127
164D	08/28/12	18.62	577.42	558.80	1123
164E	08/28/12	21.49	577.32	555.83	1122
164F	08/28/12	21.42	577.27	555.85	1121
111A	08/28/12	15.18	586.89	571.71	1145
111B	08/28/12	14.63	584.94	570.31	1146
111D	08/28/12	28.22	584.30	556.08	1147
130B	08/28/12	13.45	585.63	572.18	1150
130C	08/28/12	16.98	585.51	568.53	1151
130D	08/28/12	28.41	584.96	556.55	1152
119A	08/28/12	13.44	586.34	572.90	1155
119B	08/28/12	15.23	586.77	571.54	1156
129A	08/28/12	12.11	584.80	572.69	1202
129B	08/28/12	15.69	585.24	569.55	1200
129C	08/28/12	13.08	585.68	572.60	1201
129D	08/28/12	25.67	586.03	560.36	1159
131A	08/28/12	13.14	585.43	572.29	1202
112B	08/28/12	9.48	581.90	572.42	1204
112C	08/28/12	17.13	582.93	565.80	1205
118B	08/28/12	14.50	583.90	569.40	1208
158D	08/28/12	37.27	598.20	560.93	1211
102B	08/28/12	22.88	599.01	576.13	1214
123A	08/28/12	22.10	597.93	575.83	1216
123B	08/28/12	20.22	595.98	575.76	1217
123C	08/28/12	24.32	595.42	571.10	1218
123D	08/28/12	36.27	596.51	560.24	1219
123F	08/28/12	38.68	598.57	559.89	1220
120B	08/28/12	25.71	599.18	573.47	1233
RDB-3	08/28/12	6.83	579.31	572.48	1116
112F	08/28/12	21.59	583.29	561.70	1206
175A	08/28/12	13.62	586.81	573.19	1137
140A	08/28/12	7.32	581.55	574.23	1209
142E	08/28/12	24.95	586.00	561.05	1227
142F	08/28/12	25.01	585.69	560.68	1228
136F	08/28/12	24.49	580.33	555.84	1235
136G	08/28/12	18.14	579.76	561.62	1236
105C	08/28/12	28.47	595.28	566.81	1243
105D	08/28/12	38.79	594.77	555.98	1244
115C	08/28/12	27.55	595.93	568.38	1247
115D	08/28/12	40.38	596.62	556.24	1249

APPENDIX A
GROUNDWATER ELEVATION DATA - 3Q12

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
159A	08/28/12	19.52	596.16	576.64	1257
159B	08/28/12	24.93	596.37	571.44	1258
159C	08/28/12	27.52	597.36	569.84	1259
159D	08/28/12	41.85	597.67	555.82	1300
165D	08/28/12	13.27	577.52	564.25	1240
165E	08/28/12	21.88	577.56	555.68	1239
165F	08/28/12	22.39	577.72	555.33	1238
RW-9	08/28/12	20.78	575.13	554.35	1237
146AR	08/28/12	9.69	576.92	567.23	1220
146B	08/28/12	8.67	576.90	568.23	1221
146C	08/28/12	8.55	576.35	567.80	1223
146E	08/28/12	20.26	576.08	555.82	1224
146F	08/28/12	20.20	576.04	555.84	1225
168A	08/28/12	9.03	578.72	569.69	1156
168B	08/28/12	14.16	578.90	564.74	1157
168C	08/28/12	14.72	579.21	564.49	1159
169B	08/28/12	11.28	580.43	569.15	1201
170B	08/28/12	11.95	579.10	567.15	1203
160B	08/28/12	12.86	582.75	569.89	1204
160C	08/28/12	19.64	582.72	563.08	1206
171B	08/28/12	9.72	579.54	569.82	1207
145C	08/28/12	12.59	575.90	563.31	1210
145D	08/28/12	12.91	576.05	563.14	1212
150A	08/28/12	8.49	575.86	567.37	1135
150B	08/28/12	8.22	575.99	567.77	1136
150C	08/28/12	11.57	576.13	564.56	1137
150E	08/28/12	18.66	576.15	557.49	1138
150F	08/28/12	18.90	575.98	557.08	1139
145A	08/28/12	7.96	575.84	567.88	1147
145B	08/28/12	7.86	575.48	567.62	1146
145E	08/28/12	14.18	575.98	561.80	1149
145F	08/28/12	13.99	576.05	562.06	1151
172B	08/28/12	7.89	576.95	569.06	1144
148D	08/28/12	10.58	579.38	568.80	1113
148F	08/28/12	19.97	576.21	556.24	1114
151B	08/28/12	7.34	573.36	566.02	1103
151C	08/28/12	7.72	573.18	565.46	1102
149B	08/28/12	5.42	572.87	567.45	1123
149C	08/28/12	6.95	573.26	566.31	1125
149D	08/28/12	16.52	572.86	556.34	1127
PZ-A	08/28/12	12.09	579.06	566.97	1119
PZ-B	08/28/12	12.91	579.47	566.56	1118
RW-11	08/28/12	13.48	578.78	565.30	1117
TRW-7	08/28/12	10.05	577.89	567.84	1116
174A	08/28/12	9.83	577.62	567.79	1114
176A	08/28/12	11.23	580.03	568.80	1113
RW-10	08/28/12		577.90	577.90	
179A	08/28/12	10.21	579.01	568.80	1213
D-11	08/28/12	9.19	578.07	568.88	1211
BZTW-2	08/28/12	10.60	579.38	568.78	1120
178A	08/28/12	11.01	579.92	568.91	1121
173A	08/28/12	11.42	580.71	569.29	1122
TRW-6	08/28/12	11.19	580.21	569.02	1123
184A	08/28/12	10.66	579.88	569.22	1124
130F	08/28/12	25.02	581.49	556.47	1125

APPENDIX A
GROUNDWATER ELEVATION DATA - 3Q12

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME
D-10	08/28/12	12.83	580.02	567.19	1126
D-9	08/28/12	9.42	580.15	570.73	1127
BZTW-1	08/28/12	9.81	579.67	569.86	1124
185A	08/28/12	11.57	580.84	569.27	1125
186A	08/28/12	12.14	579.76	567.62	1134
138C	08/28/12	19.91	587.06	567.15	1131
138B	08/28/12	14.57	583.98	569.41	1130
187A	08/28/12	12.22	579.94	567.72	1136
188A	08/28/12	15.28	580.91	565.63	1140
189A	08/28/12	13.42	579.82	566.40	1143
RW-5	08/28/12	20.67	578.88	558.21	1142
162C	08/28/12	15.95	581.00	565.05	1141
129F	08/28/12	20.31	581.36	561.05	1147
129E	08/28/12	19.65	580.88	561.23	1148
D-23	08/28/12	13.60	580.61	567.01	1142
190A	08/28/12	12.64	580.58	567.94	1150
167B	08/28/12	11.69	580.93	569.24	1151
191A	08/28/12	11.28	580.62	569.34	1153
192A	08/28/12	13.95	584.08	570.13	1155
194A	08/28/12	13.63	584.35	570.72	1202
161C	08/28/12	20.90	582.64	561.74	1207
161B	08/28/12	11.40	582.84	571.44	1208
193A	08/28/12	11.57	584.13	572.56	1159
139D	08/28/12	23.85	585.49	561.64	1158
139C	08/28/12	23.66	585.27	561.61	1157
139B	08/28/12	15.28	585.39	570.11	1156
RW-4	08/28/12	29.90	581.52	551.62	1200
D-13	08/28/12	9.19	579.07	569.88	1110
D-14	08/28/12	12.61	579.01	566.40	1111
137A	08/28/12	10.69	578.47	567.78	1113
137B	08/28/12	10.63	578.31	567.68	1112
137C	08/28/12	12.26	578.39	566.13	1114
137D	08/28/12	14.43	579.09	564.66	1115
201B	08/28/12	13.44	579.25	565.81	1232
202D	08/28/12	36.34	592.73	556.39	1224
202E	08/28/12	36.57	592.73	556.16	1225
202F	08/28/12	36.23	592.73	556.50	1226
203D	08/28/12	32.91	593.85	560.94	1229
203E	08/28/12	32.96	593.85	560.89	1230
203F	08/28/12	32.87	593.85	560.98	1231
204C	08/28/12	19.84	581.77	561.93	1205

APPENDIX B

GWTF PROCESS SAMPLING RESULTS
THIRD QUARTER 2012

Appendix B
Summary of Analytical Results
DuPont Necco Park
Third Quarter 2012

Method	CAS No.	LabAnalyte	Location / Date / Units	BC-INFLUENT 8/28/12 FS	DEF-INFLUENT 8/28/12 FS	COMB-EFFLUENT 8/28/12 FS	TBLK 8/28/12 TB
		Field Parameters					
NS	EVS0118	COLOR QUALITATIVE (FIELD)	NS	grey/blue	grey	grey/blue	NS
NS	EVS0125	ODOR (FIELD)	NS	moderate	moderate	slight	NS
NS	EVS0127	PH (FIELD)	STD UNITS	5.73	6.97	6.89	NS
NS	EVS0128	REDOX (FIELD)	MV	-132	-223	-91	NS
NS	EVS0044	SPECIFIC CONDUCTANCE (FIELD)	UMHOS/CM	10004	4064	5413	NS
NS	EVS0113	TEMPERATURE (FIELD)	DEGREES C	15.9	15.2	18.7	NS
NS	EVS0131	TURBIDITY QUALITATIVE (FIELD)	NS	56.6	38.3	58.2	NS
		Volatile Organics					
8260B	79345	1,1,2,2-TETRACHLOROETHANE	UG/L	4000	1100	670	<0.18
8260B	79005	1,1,2-TRICHLOROETHANE	UG/L	4400	2100	430	<0.27
8260B	75354	1,1-DICHLOROETHENE	UG/L	940	280	<0.63	<0.19
8260B	107062	1,2-DICHLOROETHANE	UG/L	530	120	22	<0.22
8260B	56235	CARBON TETRACHLORIDE	UG/L	3700	970	2.1 J	<0.13
8260B	67663	CHLOROFORM	UG/L	20000	3100	130	<0.16
8260B	156592	CIS-1,2-DICHLOROETHENE	UG/L	6800	11000	130	<0.17
8260B	75092	METHYLENE CHLORIDE	UG/L	2900	4500	120	<0.33
8260B	127184	TETRACHLOROETHENE	UG/L	8900	980	13	<0.29
8260B	156605	TRANS-1,2-DICHLOROETHENE	UG/L	500	590	2.2 J	<0.19
8260B	79016	TRICHLOROETHENE	UG/L	26000	6600	63	<0.17
8260B	75014	VINYL CHLORIDE	UG/L	2200	2400	1.2 J	<0.22
		Total Volatiles		80870	33740	1584	

< Not detected at stated reporting limit
NS Not sampled for parameter
J Estimated concentration

ATTACHMENT 1

NECCO PARK
3Q12 WATER LEVELS

(ELECTRONIC FORMAT ONLY)