DuPont Corporate Remediation Group
Buffalo Avenue & 26th Street
Building 35 3rd Floor
Niagara Falls, NY 14302
(716) 278-5100

February 4, 2009

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

Dear Ms. Sosa:

NECCO PARK FOURTH QUARTER 2008 DATA PACKAGE

Enclosed are three copies of the *Fourth Quarter 2008 (4Q08) Data Package* for the 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, and figures showing potentiometric surface contours, vertical gradients, and drawdown contours. The data package also includes a DNAPL removal summary for 4Q08 and a summary of activities associated with the replacement of recovery well RW-10.

Pumping system uptime for 4Q08 was 70.3 percent. The lower than usual uptime is primarily attributed to equipment malfunctions at recovery well RW-5 that have since been rectified and one scheduled maintenance shutdown in December. Total volume of groundwater treated was 3,468,710 gallons. Approximately 44 gallons of DNAPL was removed in 4Q08.

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/mac
Enc.
T:\\ \Necco Park\7537 Long Term GW Mon\Reports\Quarterly Data Packets\2008\3Q\necco 4Q08 data pkg cvr ltr.doc

cc: J. Kaczor/Earth Tech
M. Hinton/NYSDEC
G. Shanahan/NYSDEC

SOURCE AREA HYDRAULIC CONTROL SYSTEM
FOURTH QUARTER 2008 GROUNDWATER MONITORING DATA PACKAGE
DUPONT NECCO PARK

Date: February 4, 2009

DuPont Project No. 7537
URSD Project No. 18985651

CORPORATE REMEDIATION GROUP
An Alliance between
DuPont and URS Diamond

Barley Mill Plaza, Building 19
Wilmington, Delaware 19805

Buffalo Avenue & 26th Street
Niagara Falls, NY 14302

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1.0 DATA PACKAGE SUMMARY

This data package presents a summary of operating and monitoring data collected during the fourth quarter of 2008 (4Q08) for groundwater remediation measures at the DuPont Necco Park Site (Necco Park) in Niagara Falls, New York. Submission of this data package meets reporting requirements defined in the Long Term Groundwater Monitoring Plan (LTGMP) and the Sampling, Analysis, and Monitoring Plan (SAMP) (CRG, 2005). A summary of the installation of new B/C-Zone recovery well RW-11 is also provided in this data package. The well was installed to replace recovery well RW-10 which has exhibited diminished hydraulic efficiency.

This data package is the fourteenth subsequent to the 2005 startup of the Necco Park Hydraulic Control System (HCS) and includes a summary of operations for the pumping wells and Groundwater Treatment Facility (GWTF). Included are figures depicting monthly groundwater elevation contours for seven groundwater flow zones and groundwater elevation data (Appendix A). An electronic copy of the groundwater elevation data is provided as Attachment 1. Figures illustrating drawdown for the AT and A-Zone and vertical gradients between the AT and A-Zone and A- and B-Zone are also included.

Figures 2 and 5 present the vertical gradient (ft/ft) for selected well pairs between the AT and A-Zone and the A-Zone and B-Zones, respectively. Vertical gradients are calculated by subtracting the elevation of the upper zone from the elevation of the lower zone and dividing the result by the difference in the elevation of the center of the well screen (for AT and A-Zones wells) or the center of open rock zone (for B-Zone wells).

Figures 3 and 6 exhibit potentiometric contours of net drawdown in selected wells between April 5, 2005 (immediately prior to system startup) and the current groundwater elevation in each well.

In accordance with a recommendation of the 2007 Annual Report, a new C-Zone well (204C) was installed in 4Q08 to replace well 112C. Quarterly hydraulic monitoring at well 204C will begin in 1Q09. Well installation details will be provided in the 2008 Annual Report.

1.1 Operational Summary

A summary of HCS uptime, total gallons of groundwater treated, and gallons of DNAPL removed for 4Q08 is as follows:

	HCS Uptime (%)	Groundwater Treated (Gallons)	DNAPL Removed (Gallons)
October	74.4	1,068,530	44
November	73.9	1,225,187	0
December	62.7	1,174,993	0
4Q8 Total	**70.3**	**3,468,710**	**44**

Individual recovery well downtime which exceeded a 24-hour time period during 4Q08 is summarized in Table 1. Most of the downtime occurred in December and is attributed to equipment malfunction or failures at recovery well RW-5 and a scheduled maintenance shutdown from December 17th to December 19th. The entire system was not operational from December 28th to December 30th due to a failure of the process control system module. Recovery well RW-5 was not operating from November 1st to November 7th for completion of scheduled well cleaning. A historical operational summary by quarter since HCS operations began is provided in Table 2.

All DNAPL removed in 4Q08 was derived from pumping well RW-5. Monthly DNAPL monitoring was completed on October 24th, November 24th, and December 23rd. RW-5 was the only location where DNAPL was observed in 4Q08. DNAPL removal was conducted three times in October; October 10th, October 24th, and October 31st. DNAPL was not observed in RW-5, or any other monitoring location, in November and December.

1.2 GWTF Process Sampling

In accordance with the SAMP, GWTF influent samples (B/C and D/E/F-Zone) and a combined effluent sample were collected in 4Q08. Samples were collected by TestAmerica Laboratories of Amherst, NY on November 13th and shipped to TestAmerica Laboratories in North Canton, Ohio for analysis. Sample results for the process sampling is included in Appendix B.

1.3 POTW Compliance

As required by our discharge permit, the Necco GWTF discharge is sampled and reported quarterly to the Niagara Falls Water Board. The Necco Park 4Q08 wastewater samples were collected on September 12, 2008. The 3Q08 results for Hexachlorobutadiene exceeded the daily maximum limit and Hexachloroethane exceeded the calculated annual average limit. In compliance with SIU Permit #64, DuPont re-sampled for these compounds on September 4 and 5, 2008. The additional sampling results for Hexachlorbutadiene indicated that the current daily maximum limit for this compound is adequate.

1.4 Recovery Well RW-10 Replacement

Following RW-10 well house and acid line modifications, replacement B/C-Zone recovery well RW-11 was put into operation on November 12th. Pumping at an average rate of 15 gpm, improved hydraulic control in the upper bedrock in the western portion of the site has been observed. Uptime for the well was 78.7 % from startup to the end of the quarter. A detailed summary of the RW-11 installation including construction, hydraulic influence, and O&M requirements, will be provided in the 2008 Annual Report.

2.0 REFERENCES

DuPont Corporate Remediation Group (CRG). 2005. *DuPont Necco Park Operations and Maintenance Plan.* November 11, 2005.

TABLES

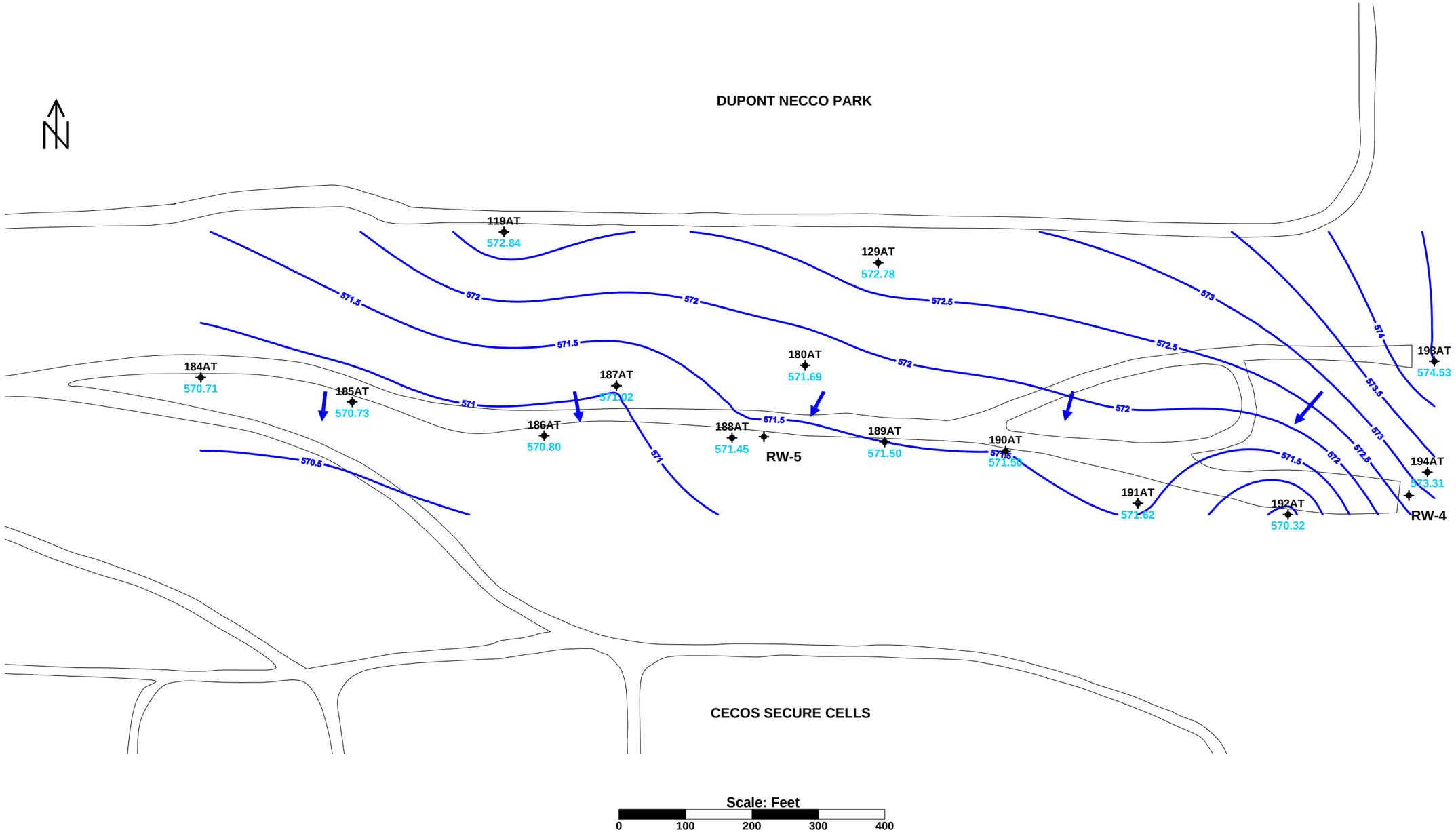
Table 1
Individual Recovery Well Shutdown Summary - 4Q08
DuPont Necco Park

	Well ID	Date(s)	Length of Shutdown (hours)	Reason for Shutdown	Remarks
OCTOBER	RW-5	10/6-10/8	71.1	Pump failed	None
	RW-9	10/6	24	Level control failure	Pump shutdown
	RW-10	10/1-10/31	744	Complete well shutdown	Continued process of bringing replacement RW-11 online
NOVEMBER	RW-5	11/2-11/7 &11/20	168	Mandatory maintenance and pump failure	None
	RW-10	11/1-11/12	288	Complete well shutdown	Well RW-11 brought online on 11/12/2008
DECEMBER	RW-4	12/18-12/19 & 12/28-12/30	120	Header line maintenance and system shutdown	The Experian system hard-drive malfunctioned during 12/28-12/30
	RW-5	12/3, 12/7-12/8, 12/14-12/19 & 12/26-12/31	336	Pump failure, header line blockage and maintenance, and system shutdown	The Experian system hard-drive malfunctioned during 12/28-12/30
	RW-8	12/18 & 12/28-12/30	96	Header line maintenance and system shutdown	The Experian system hard-drive malfunctioned during 12/28-12/30
	RW-9	12/18 & 12/28-12/30	96	Header line maintenance and system shutdown	The Experian system hard-drive malfunctioned during 12/28-12/30
	RW-11	12/15, 12/18-12/19, 12/26 and 12/28-12/30	190.1	Header line blockage and maintenance and system shutdown	The Experian system hard-drive malfunctioned during 12/28-12/30

Table 2
Historical HCS Operational Summary - 4Q08
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
TOTALS	**---**	**---**	**45,997,748**	**920**
AVERAGE	**90.7**	**91.9**	**---**	**---**

FIGURES



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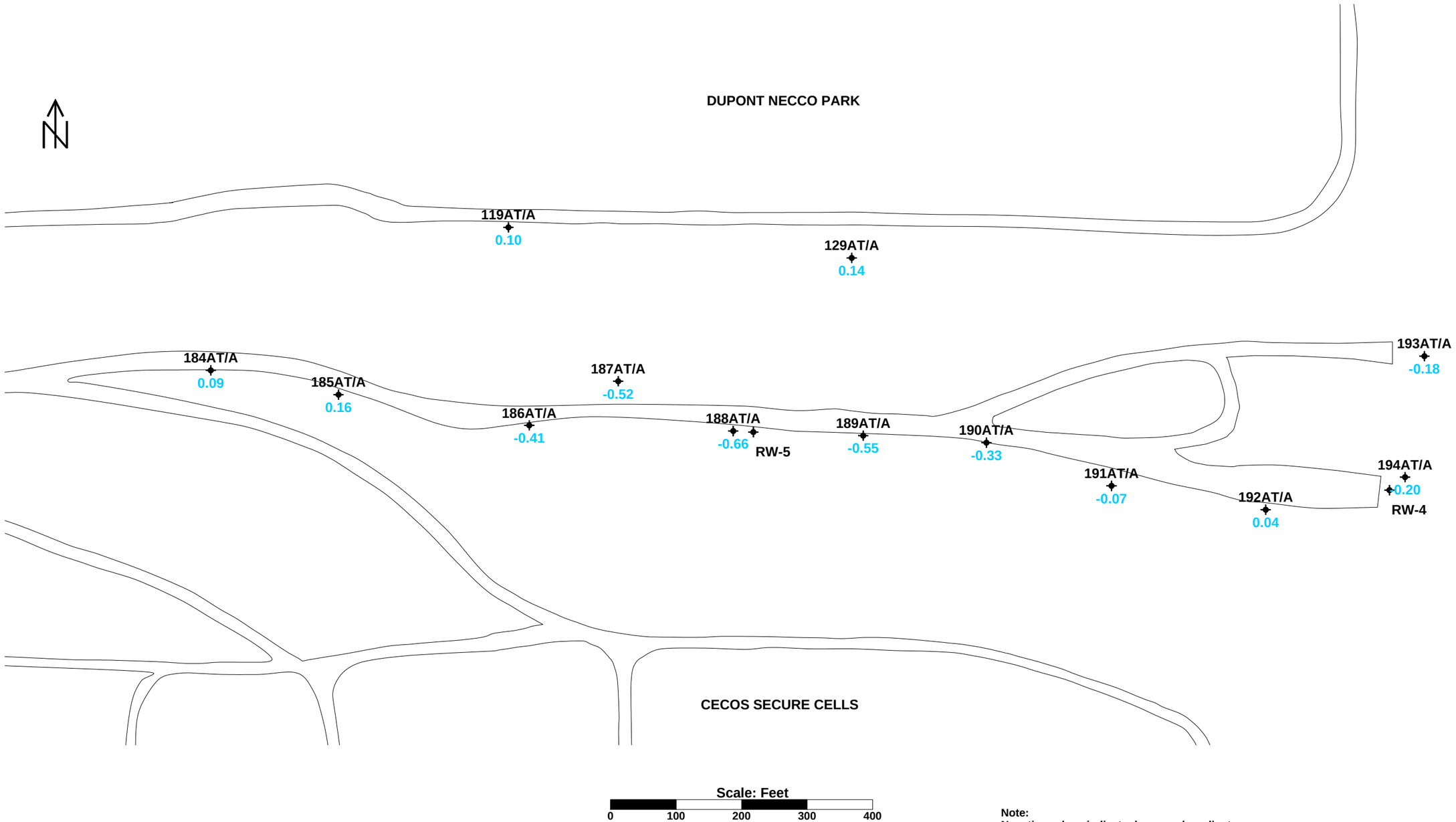
LEGEND

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

Figure 1
Potentiometric Surface Map
DuPont Necco Park: AT-Zone
November 13, 2008



Note:
Negative values indicate downward gradients.

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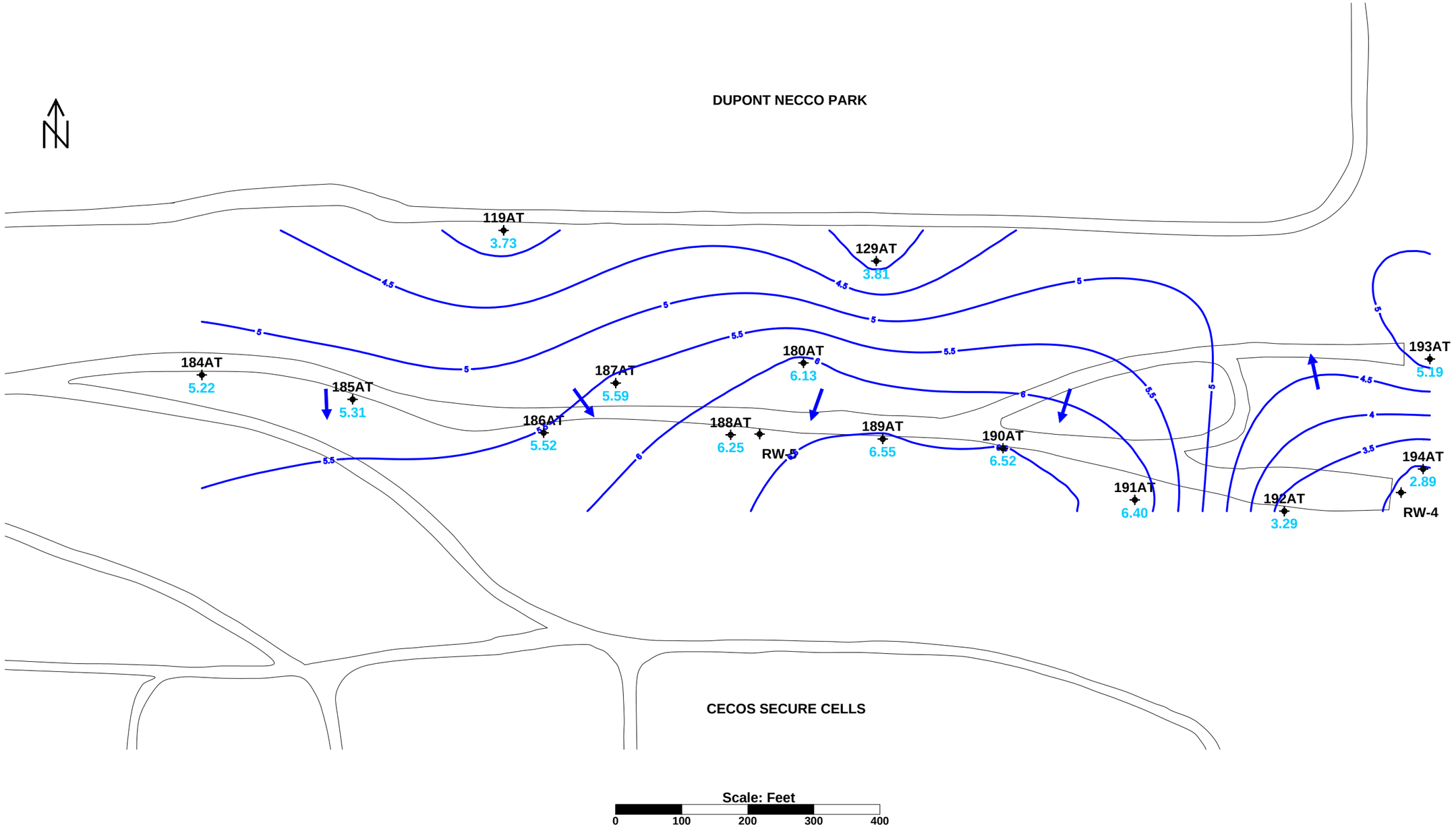
LEGEND

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

Figure 2
Vertical Gradient: AT-Zone to A-Zone
DuPont Necco Park
November 13, 2008



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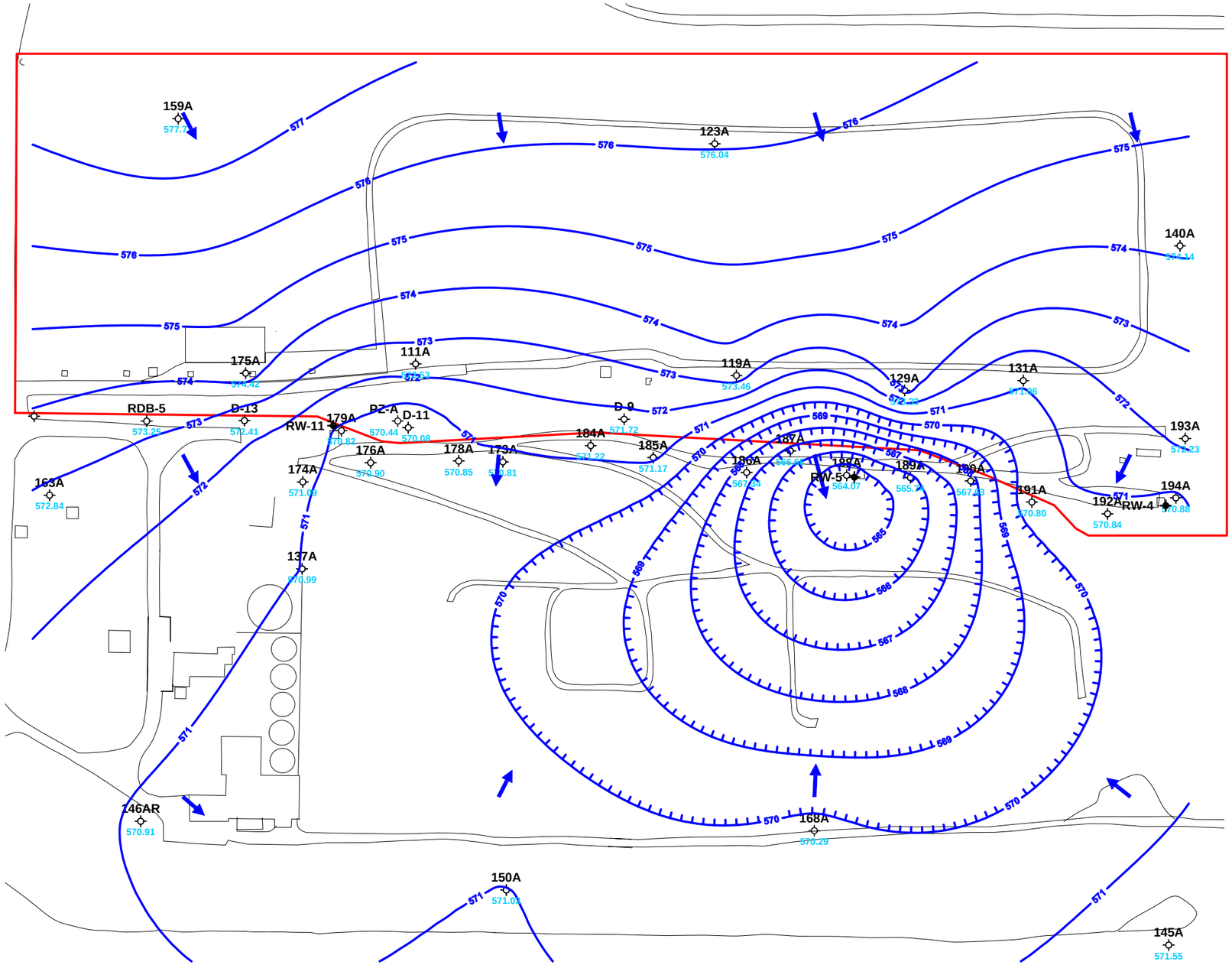
LEGEND

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

Figure 3
Drawdown Contour Map
DuPont Necco Park: AT-Zone
April 5, 2005 (Static) to November 13, 2008



Scale: Feet

0 100 200 300 400

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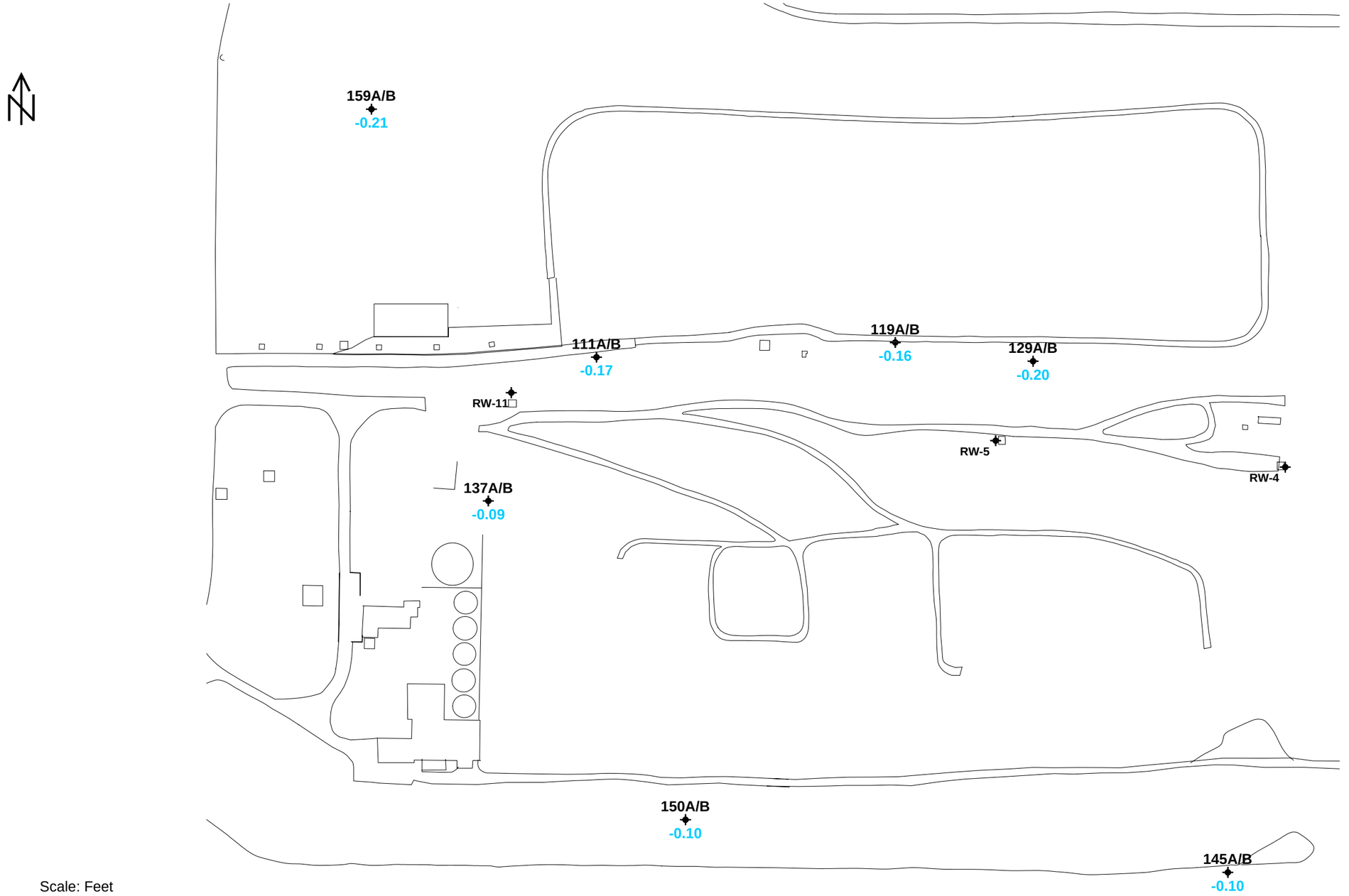
LEGEND

3B	Well ID		Potentiometric Contour		Source Area Delineation
	Monitoring Well		Structure		
	Pumping Well		Road		

Figure 4
Potentiometric Surface Map
DuPont Necco Park: A-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



Scale: Feet

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Note: Negative values indicate downward gradients.

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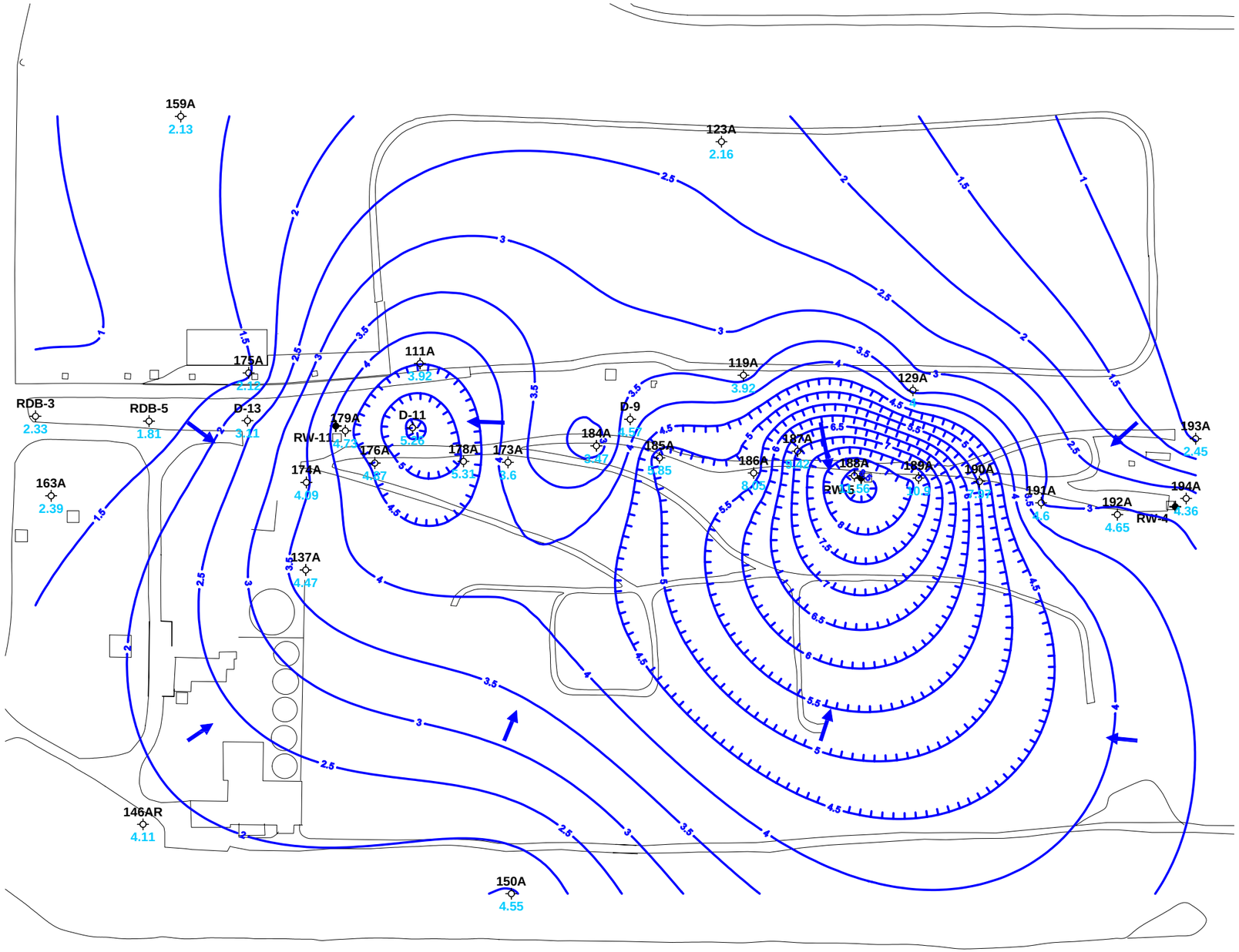
LEGEND

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

Figure 5
Vertical Gradient: A-Zone to B-Zone
DuPont Necco Park
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



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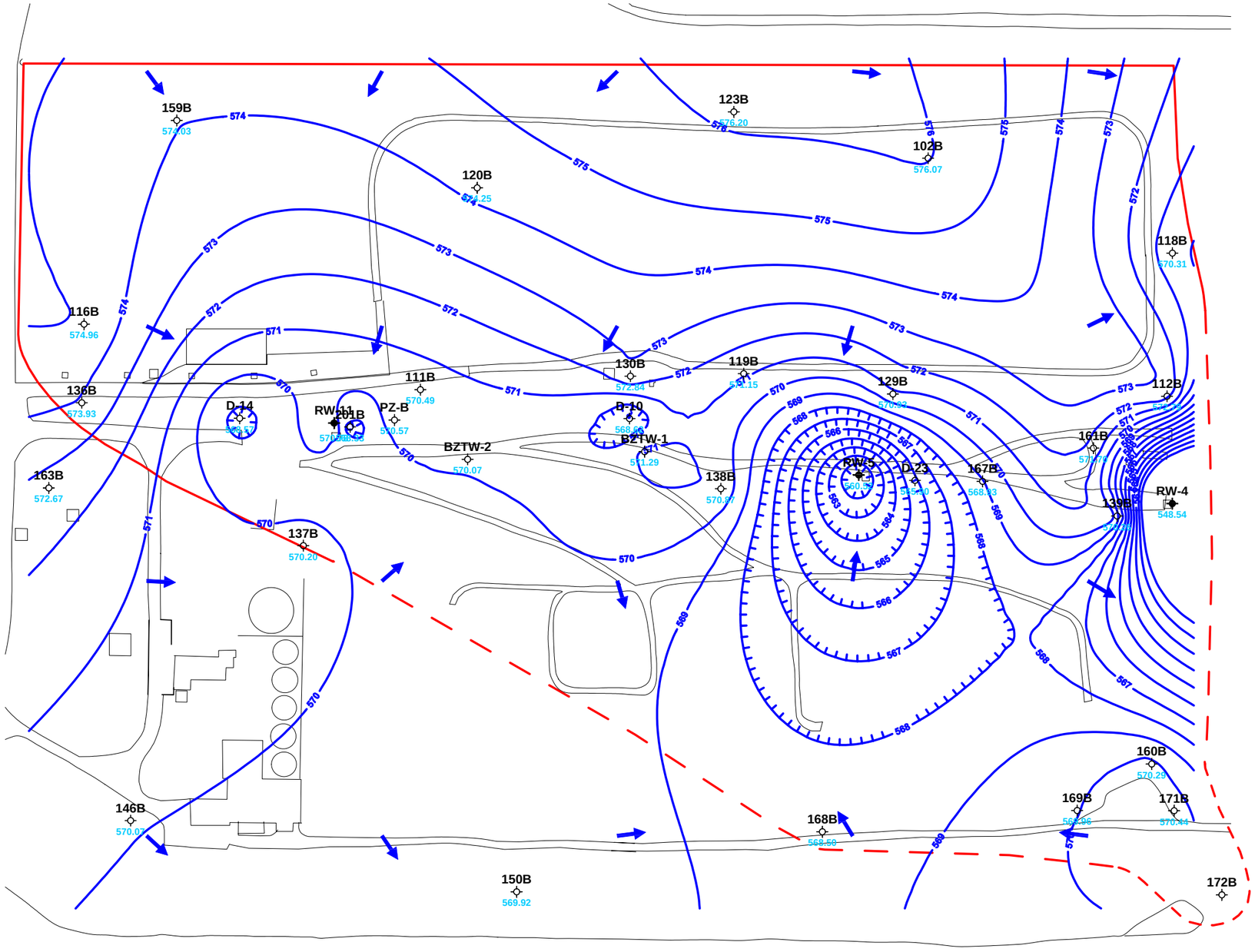
LEGEND

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

Figure 6
Drawdown Contour Map
DuPont Necco Park: A-Zone
April 5, 2005 (Static) to November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



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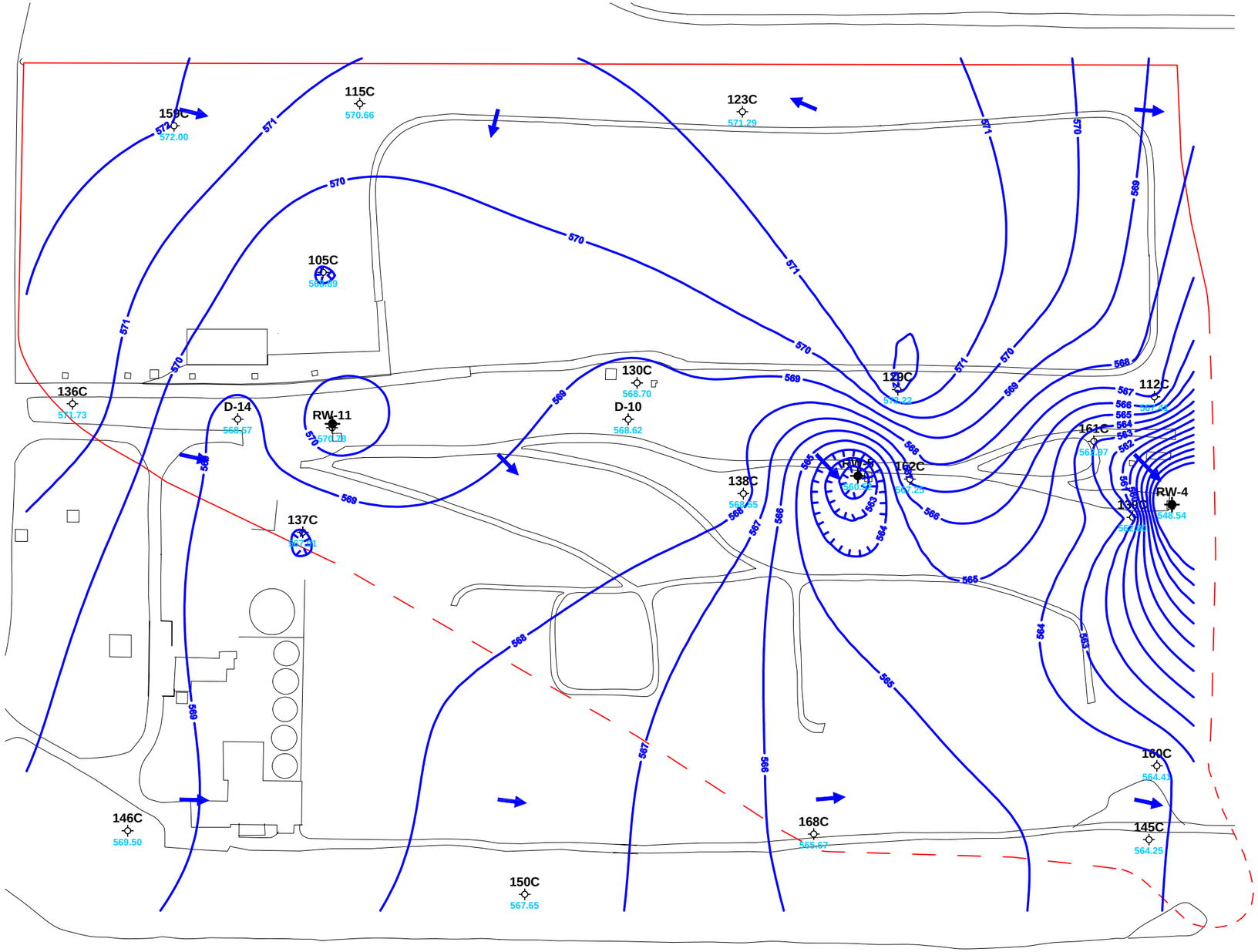
3B	Well ID		Potentiometric Contour		Source Area Delineation
	Monitoring Well		Structure		
	Pumping Well		Road		

Figure 7
Potentiometric Surface Map
DuPont Necco Park: B-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



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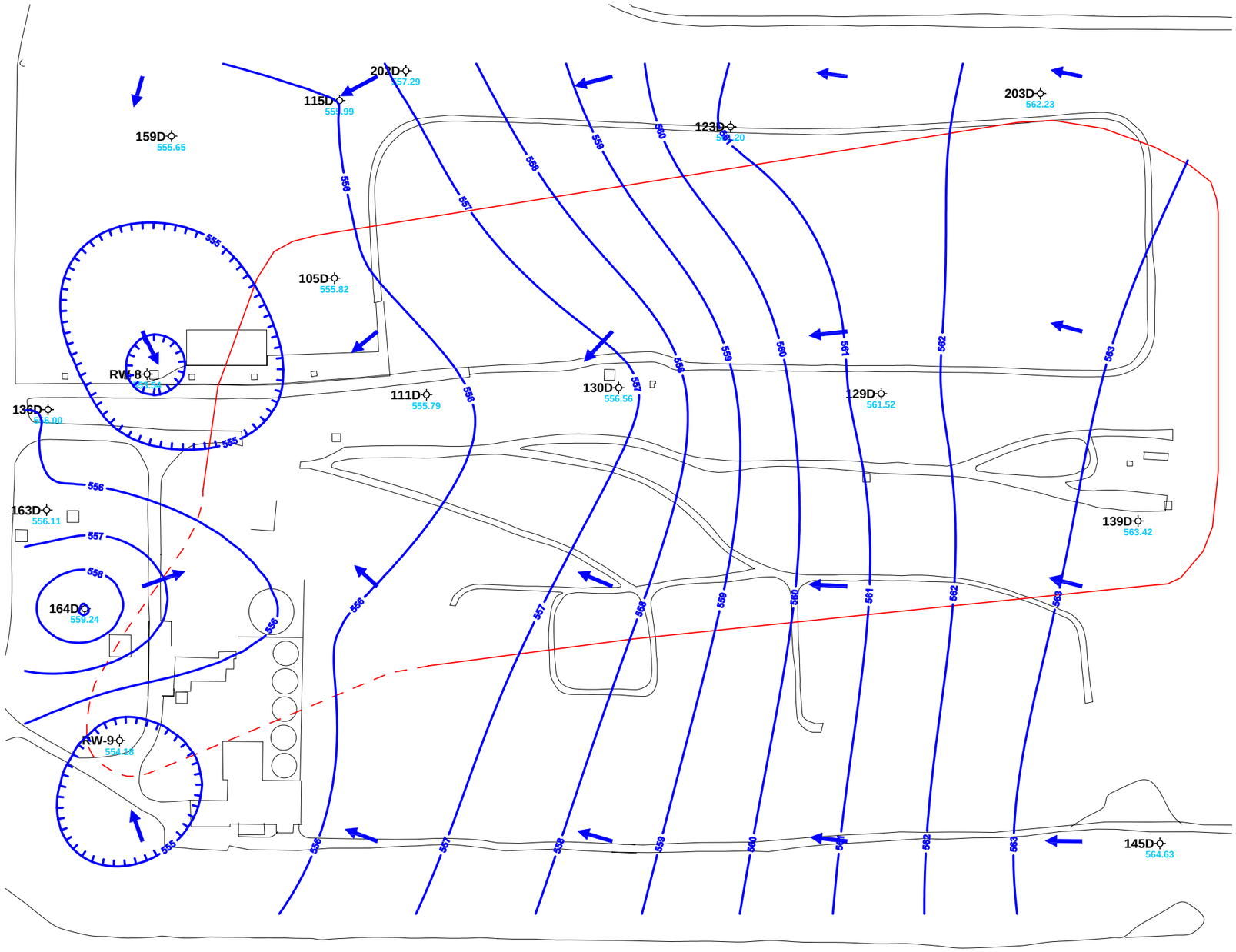
LEGEND

3B	Well ID	Potentiometric Contour	Source Area Delineation
	Monitoring Well	Structure	
	Pumping Well	Road	

Figure 8
Potentiometric Surface Map
DuPont Necco Park: C-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



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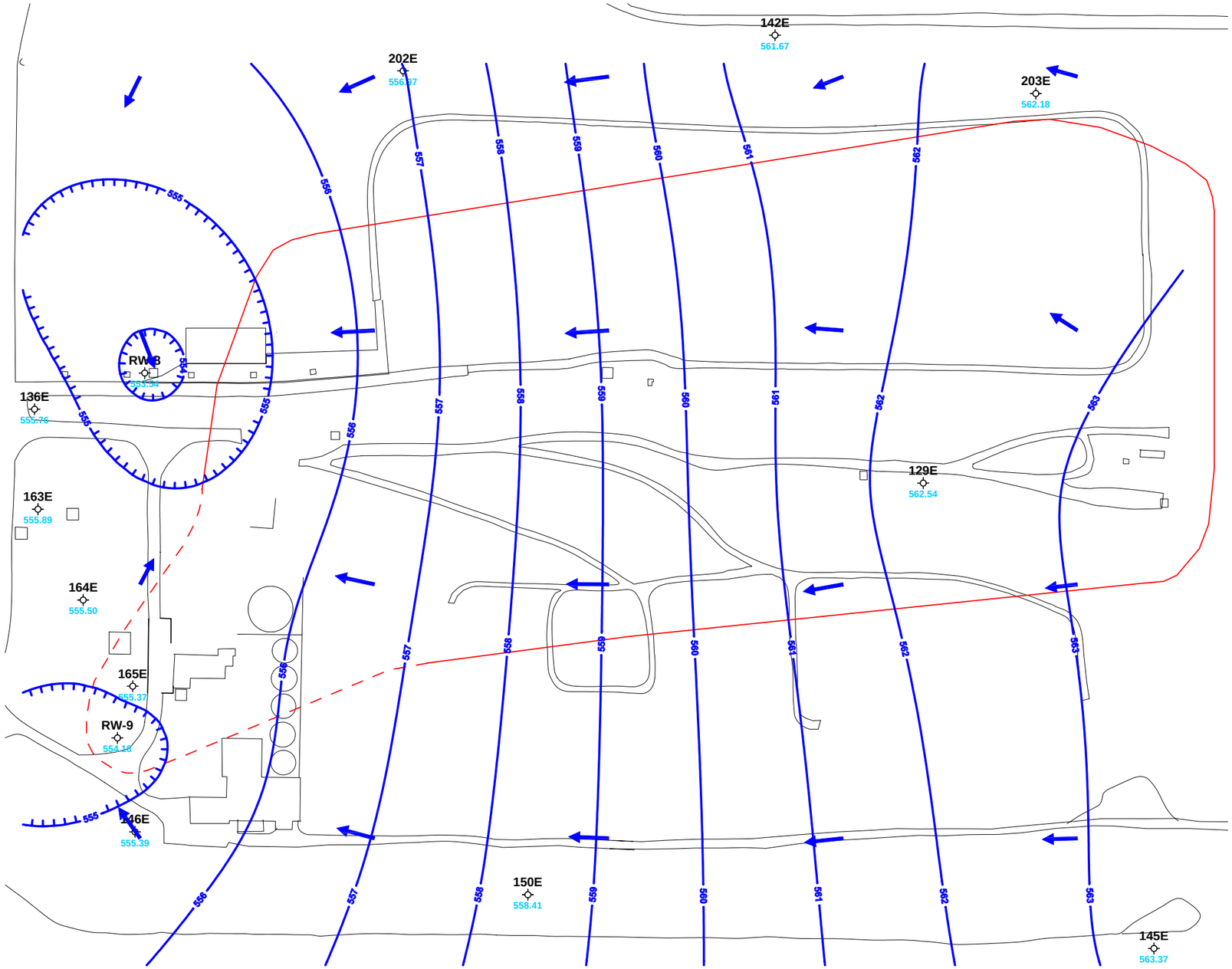
LEGEND

3B	Well ID	Potentiometric Contour	Source Area Delineation
	Monitoring Well	Structure	
	Pumping Well	Road	

Figure 9
Potentiometric Surface Map
DuPont Necco Park: D-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



Scale: Feet

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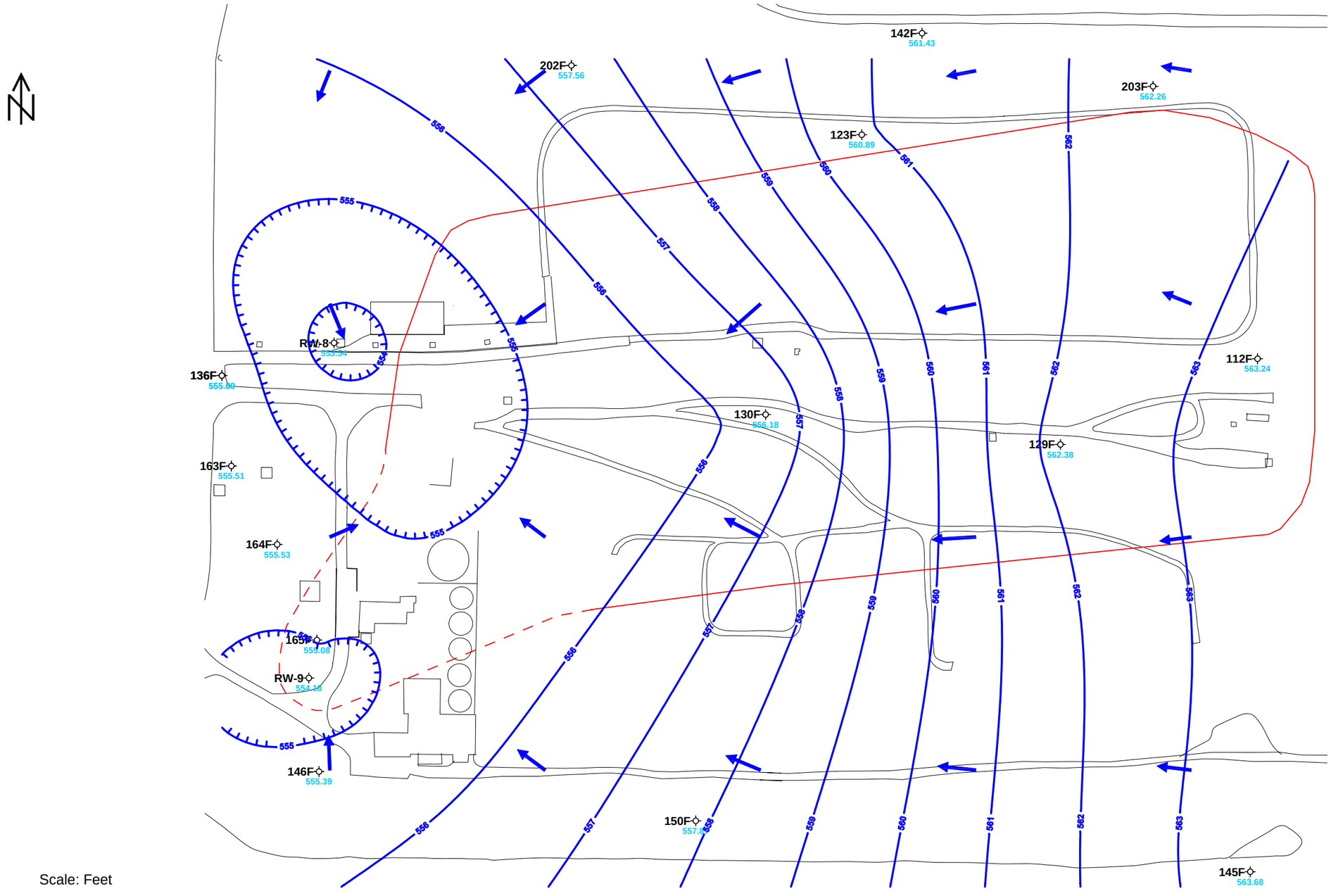
LEGEND

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

Figure 10
Potentiometric Surface Map
DuPont Necco Park: E-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf



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LEGEND

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

Figure 11
Potentiometric Surface Map
DuPont Necco Park: F-Zone
November 13, 2008

Necco Park/General Surfer Grid Files and Data/20072Q Data Packet/2007-05-02 A to F Zones w-SA Lines.srf

APPENDICES

Appendix A

Groundwater Elevation Data

APPENDIX A
GROUNDWATER ELEVATION DATA
4Q08
DUPONT NECCO PARK

Location	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time	Comment
102B	22.94	599.01	576.07	11/13/2008	12:36	
105C	26.39	595.28	568.89	11/13/2008	13:00	
105D	38.95	594.77	555.82	11/13/2008	13:01	
111A	14.36	586.89	572.53	11/13/2008	12:01	
111B	14.45	584.94	570.49	11/13/2008	12:02	
111D	28.51	584.30	555.79	11/13/2008	12:03	
112B	9.11	581.90	572.79	11/13/2008	12:23	
112C	15.52	582.93	567.41	11/13/2008	12:24	
112F	20.05	583.29	563.24	11/13/2008	12:25	
115C	25.27	595.93	570.66	11/13/2008	13:05	
115D	40.63	596.62	555.99	11/13/2008	13:06	
116B	15.09	590.05	574.96	11/13/2008	11:54	
118B	13.59	583.90	570.31	11/13/2008	12:27	
119A	12.88	586.34	573.46	11/13/2008	12:10	
119AT	13.78	586.62	572.84	11/13/2008	12:11	
119B	15.62	586.77	571.15	11/13/2008	12:12	
120B	24.93	599.18	574.25	11/13/2008	12:46	
123A	21.89	597.93	576.04	11/13/2008	12:40	
123B	19.78	595.98	576.20	11/13/2008	12:41	
123C	24.13	595.42	571.29	11/13/2008	12:42	
123D	35.31	596.51	561.20	11/13/2008	12:43	
129A	11.47	584.80	573.33	11/13/2008	12:19	
129AT	12.16	584.94	572.78	11/13/2008	12:18	
129B	14.31	585.24	570.93	11/13/2008	12:17	
129C	13.46	585.68	572.22	11/13/2008	12:16	
129D	24.51	586.03	561.52	11/13/2008	12:15	
129E	18.34	580.88	562.54	11/13/2008	12:25	
129F	18.98	581.36	562.38	11/13/2008	12:26	
130B	12.79	585.63	572.84	11/13/2008	12:05	
130C	16.81	585.51	568.70	11/13/2008	12:06	
130D	28.40	584.96	556.56	11/13/2008	12:07	
130F	25.31	581.49	556.18	11/13/2008	12:01	
130G	24.79	580.79	556.00	11/13/2008	12:00	
131A	14.37	585.43	571.06	11/13/2008	12:20	
136B	7.76	581.69	573.93	11/13/2008	11:35	
136C	9.89	581.62	571.73	11/13/2008	11:34	
136D	23.68	579.68	556.00	11/13/2008	11:33	
136E	23.83	579.59	555.76	11/13/2008	11:32	
136F	24.73	580.33	555.60	11/13/2008	11:30	
136F	24.74	580.33	555.59	11/13/2008	13:07	
136G	20.29	579.76	559.47	11/13/2008	13:06	
137A	8.10	579.09	570.99	11/13/2008	11:41	
137B	8.11	578.31	570.20	11/13/2008	11:39	
137C	10.56	578.47	567.91	11/13/2008	11:38	
138B	13.11	583.98	570.87	11/13/2008	12:09	
138C	18.51	587.06	568.55	11/13/2008	12:10	
139B	15.13	585.39	570.26	11/13/2008	12:34	
139C	22.47	585.27	562.80	11/13/2008	12:36	
139D	22.07	585.49	563.42	11/13/2008	12:37	
140A	7.29	581.43	574.14	11/13/2008	12:28	
141G	26.61	582.53	555.92	11/13/2008	12:31	
142E	24.33	586.00	561.67	11/13/2008	12:54	
142F	24.26	585.69	561.43	11/13/2008	12:55	
143G	36.33	591.34	555.01	11/13/2008	13:17	
145A	4.29	575.84	571.55	11/13/2008	12:19	
145B	5.80	575.48	569.68	11/13/2008	12:16	
145C	11.65	575.90	564.25	11/13/2008	12:56	
145D	11.42	576.05	564.63	11/13/2008	12:58	
145E	12.61	575.98	563.37	11/13/2008	12:14	
145F	12.37	576.05	563.68	11/13/2008	12:12	
146AR	6.01	576.92	570.91	11/13/2008	12:32	
146B	6.83	576.90	570.07	11/13/2008	12:25	
146C	6.85	576.35	569.50	11/13/2008	12:26	
146E	20.69	576.08	555.39	11/13/2008	12:27	
146F	20.65	576.04	555.39	11/13/2008	12:28	

APPENDIX A
GROUNDWATER ELEVATION DATA
4Q08
DUPONT NECCO PARK

Location	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time	Comment
148D	8.79	576.38	567.59	11/13/2008	11:30	
148F	21.98	576.21	554.23	11/13/2008	11:32	
149B	4.13	572.87	568.74	11/13/2008	11:40	
149C	5.44	573.26	567.82	11/13/2008	11:41	
149D	16.07	572.86	556.79	11/13/2008	11:43	
150A	4.83	575.86	571.03	11/13/2008	11:55	
150B	6.07	575.99	569.92	11/13/2008	11:56	
150C	8.48	576.13	567.65	11/13/2008	11:57	
150E	17.74	576.15	558.41	11/13/2008	11:58	
150F	18.11	575.98	557.87	11/13/2008	12:00	
151B	6.93	573.36	566.43	11/13/2008	11:18	
151C	7.28	573.18	565.90	11/13/2008	11:20	
159A	18.39	596.16	577.77	11/13/2008	13:10	
159B	22.34	596.37	574.03	11/13/2008	13:11	
159C	25.36	597.36	572.00	11/13/2008	13:12	
159D	42.02	597.67	555.65	11/13/2008	13:13	
160B	12.46	582.75	570.29	11/13/2008	12:50	
160C	18.31	582.72	564.41	11/13/2008	12:51	
161B	11.14	582.84	571.70	11/13/2008	12:47	
161C	19.67	582.64	562.97	11/13/2008	12:48	
162C	13.75	581.00	567.25	11/13/2008	12:21	
163A	5.30	578.14	572.84	11/13/2008	11:50	
163B	5.27	577.94	572.67	11/13/2008	11:49	
163D	22.71	578.82	556.11	11/13/2008	11:48	
163E	23.17	579.06	555.89	11/13/2008	11:47	
163F	23.25	578.76	555.51	11/13/2008	11:46	
164D	18.18	577.42	559.24	11/13/2008	11:44	
164E	21.82	577.32	555.50	11/13/2008	11:43	
164F	21.74	577.27	555.53	11/13/2008	11:42	
165E	22.19	577.56	555.37	11/13/2008	12:37	
165F	22.64	577.72	555.08	11/13/2008	12:35	
167B	12.00	580.93	568.93	11/13/2008	12:29	
168A	8.43	578.72	570.29	11/13/2008	12:29	
168B	10.40	578.90	568.50	11/13/2008	12:42	
168C	13.54	579.21	565.67	11/13/2008	12:43	
169B	10.47	580.43	569.96	11/13/2008	12:47	
171B	9.10	579.54	570.44	11/13/2008	12:53	
172B	7.01	576.95	569.94	11/13/2008	12:10	
173A	9.90	580.71	570.81	11/13/2008	11:55	
174A	6.53	577.62	571.09	11/13/2008	11:36	
175A	12.39	586.81	574.42	11/13/2008	11:59	
176A	9.13	580.03	570.90	11/13/2008	11:46	
178A	9.07	579.92	570.85	11/13/2008	11:53	
179A	8.19	579.01	570.82	11/13/2008	11:49	
180AT	7.78	579.47	571.69	11/13/2008	12:21	
184A	8.66	579.88	571.22	11/13/2008	11:59	
184AT	8.98	579.69	570.71	11/13/2008	11:58	
185A	9.67	580.84	571.17	11/13/2008	12:06	
185AT	9.96	580.69	570.73	11/13/2008	12:07	
186A	12.42	579.76	567.34	11/13/2008	12:11	
186AT	9.30	580.10	570.80	11/13/2008	12:12	
187A	13.28	579.94	566.66	11/13/2008	12:14	
187AT	8.28	579.30	571.02	11/13/2008	12:13	
188A	16.84	580.91	564.07	11/13/2008	12:17	
188AT	9.14	580.59	571.45	11/13/2008	12:16	
189A	14.08	579.82	565.74	11/13/2008	12:23	
189AT	8.90	580.40	571.50	11/13/2008	12:24	
190A	12.95	580.58	567.63	11/13/2008	12:27	
190AT	9.42	580.92	571.50	11/13/2008	12:28	
191A	9.82	580.62	570.80	11/13/2008	12:30	
191AT	9.44	581.06	571.62	11/13/2008	12:31	
192A	13.24	584.08	570.84	11/13/2008	12:32	
192AT	14.14	584.46	570.32	11/13/2008	12:33	
193A	11.90	584.13	572.23	11/13/2008	12:43	
193AT	8.56	583.09	574.53	11/13/2008	12:44	

APPENDIX A
GROUNDWATER ELEVATION DATA
4Q08
DUPONT NECCO PARK

Location	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time	Comment
194A	13.47	584.35	570.88	11/13/2008	12:40	
194AT	11.62	584.93	573.31	11/13/2008	12:41	
201B	10.92	579.25	568.33	11/13/2008	11:50	
202D	36.44	593.73	557.29	11/13/2008	11:29	
202E	36.76	593.73	556.97	11/13/2008	11:30	
202F	36.17	593.73	557.56	11/13/2008	11:31	
203D	31.63	593.86	562.23	11/13/2008	11:25	
203E	31.68	593.86	562.18	11/13/2008	11:26	
203F	31.60	593.86	562.26	11/13/2008	11:27	
BZTW-1	8.38	579.67	571.29	11/13/2008	12:05	
BZTW-2	9.31	579.38	570.07	11/13/2008	11:54	
D-10	11.40	580.02	568.62	11/13/2008	12:04	
D-11	7.99	578.07	570.08	11/13/2008	11:52	
D-13	6.66	579.07	572.41	11/13/2008	11:43	
D-14	10.44	579.01	568.57	11/13/2008	11:42	
D-23	14.65	580.55	565.90	11/13/2008	12:22	
D-9	8.43	580.15	571.72	11/13/2008	12:03	
PZ-A	8.62	579.06	570.44	11/13/2008	11:21	
PZ-B	8.90	579.47	570.57	11/13/2008	11:24	
RDB-3	5.41	579.31	573.90	11/13/2008	11:36	
RDB-5	5.32	578.57	573.25	11/13/2008	11:37	

Appendix B

GWTF Process Sampling Results

Appendix B: 4Q08 Summary of Analytical Results
DuPont Necco Park

Sample Date 11/13/08	Sample ID	BC-INFLUENT	DEF-INFLUENT	COMB-EFFLUENT	TBLK
Field Parameters					
COLOR QUALITATIVE (FIELD)	NS	GREY	GREY	GREY	NS
ODOR (FIELD)	NS	MODERATE	MODERATE	MODERATE	NS
PH (FIELD)	STD UNITS	6.57	6.92	6.99	NS
REDOX (FIELD)	MV	-134	-206	-100	NS
SPECIFIC CONDUCTANCE (FIELD)	UMHOS/CM	9865	4389	6651	NS
TEMPERATURE (FIELD)	DEGREES C	13.4	11.5	13.5	NS
TURBIDITY QUANTITATIVE (FIELD)	NTU	120	143	154	NS
Volatile Organics					
1,1,2,2-TETRACHLOROETHANE	UG/L	1800 J	1600 J	1000 J	0.23 J
1,1,2-TRICHLOROETHANE	UG/L	3000	2900	870	<0.27
1,1-DICHLOROETHENE	UG/L	550	380 J	<7.6	<0.19
1,2-DICHLOROETHANE	UG/L	490	220 J	60	<0.22
CARBON TETRACHLORIDE	UG/L	1100	1300	29 J	<0.13
CHLOROFORM	UG/L	13000	5300	370	<0.16
CIS-1,2 DICHLOROETHENE	UG/L	4500	12000	260	<0.17
METHYLENE CHLORIDE	UG/L	1600 J	3800 J	83 J	<0.33 UJ
TETRACHLOROETHYLENE	UG/L	4300	1900	70	<0.29
TRANS-1,2-DICHLOROETHENE	UG/L	280 J	800	<7.6	<0.19
TRICHLOROETHENE	UG/L	14000	8400	220	<0.17
VINYL CHLORIDE	UG/L	1400	2400	<8.8 UJ	<0.22
Other Organics					
2,4,5-TRICHLOROPHENOL	UG/L	62 J	390	170 J	NS
2,4,6-TRICHLOROPHENOL	UG/L	23 J	180	74 J	NS
3- AND 4- METHYLPHENOL	UG/L	200	24 J	110 J	NS
HEXACHLOROBENZENE	UG/L	<1	<1	12 J	NS
HEXACHLOROBUTADIENE	UG/L	390	33 J	730	NS
HEXACHLOROETHANE	UG/L	95 J	13 J	110 J	NS
PENTACHLOROPHENOL	UG/L	360 J	700	380 J	NS
PHENOL	UG/L	290	58 J	150 J	NS
Tentatively Identified Compound 01	UG/L	4000 J	870 J	1700 J	NS
Inorganics					
BARIUM, DISSOLVED	UG/L	33200	100 J	620	NS
BARIUM, TOTAL	UG/L	109000	91 J	37500	NS
SULFATE	UG/L	9100	914000	287000	NS
Total Volatiles		46020J	41000J	2962J	0.23J

< and ND = Non detect at stated reporting limit
UJ - Not detected. Reporting limit may not be accurate or precise.
NS - Not Sampled
J - Estimated value.