

SOURCE AREA HYDRAULIC CONTROL SYSTEM FIRST QUARTER 2007 GROUNDWATER MONITORING DATA PACKAGE DUPONT NECCO PARK

Date: May 4, 2007

DuPont Project No. 7537
URSD Project No. 18984965



CORPORATE REMEDIATION GROUP
*An Alliance between
DuPont and URS Diamond*

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1.0 DATA PACKAGE SUMMARY

This data package presents a summary of operating and monitoring data collected during the first quarter of 2007 (1Q07) for groundwater remediation measures at the DuPont Necco Park Site (Necco) 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).

This data packet is the eighth issued 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).

1.1 Operational Summary

	HCS Uptime (%)	Groundwater Treated (Gallons)	DNAPL Removed (Gallons)
January	96.7	891,356	6
February	88.3	800,736	5
March	88.6	945,913	4
1Q07 Total	91.2	2,638,005	15

Individual extraction well downtime greater than 24 hours are as follows:

- ❑ All pumping wells were not operating from February 6th to February 8th due to blockage of the emissions stack by ice thereby preventing any groundwater treatment.
- ❑ Well RW-4 was not operating from March 23rd to March 27th due to a power failure that damaged electronic components.
- ❑ Well RW-5 was not operating on March 5th to replace an actuator valve.

To maximize the degree of hydraulic control in the upper bedrock zone during the February GWTF shutdown, pumps in the three B/C-Zone extraction wells continued to operate until the equalization tanks were filled. This was not possible for the D/E/F-Zone due to the higher flow rates from these pumping wells.

All DNAPL removed in 1Q07 was derived from pumping well RW-5.

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 1Q07. The samples were collected by STL Laboratories of Amherst, NY on February 23, 2007 and shipped to SLT Laboratories in North Canton, Ohio for analysis. Sample results for the process sampling are provided in Appendix B.

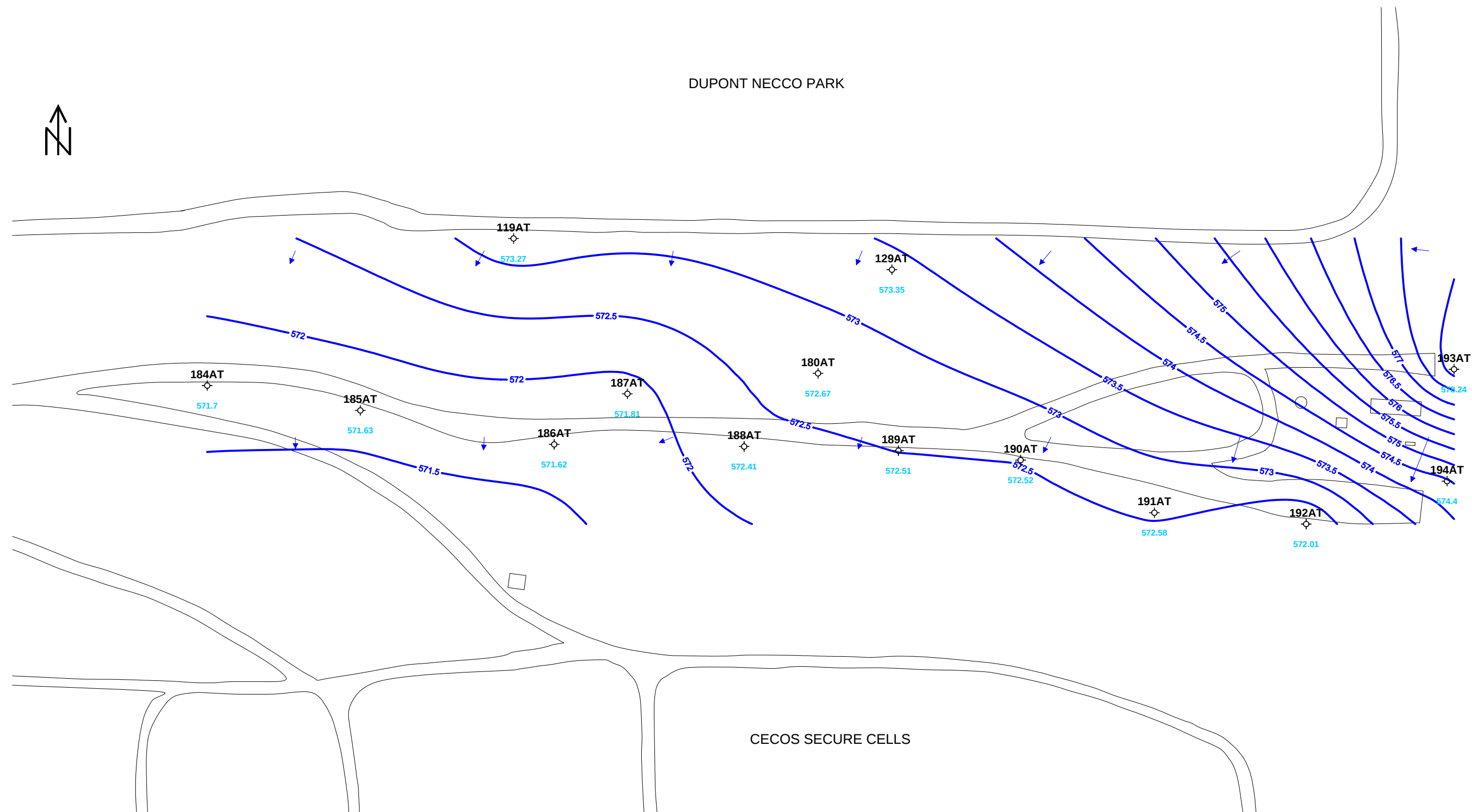
2.0 REFERENCES

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

FIGURES



DUPONT NECCO PARK



Scale: Feet



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LEGEND

3B

Well ID



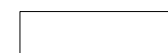
Monitoring Well



Pumping Well



Potentiometric Contour

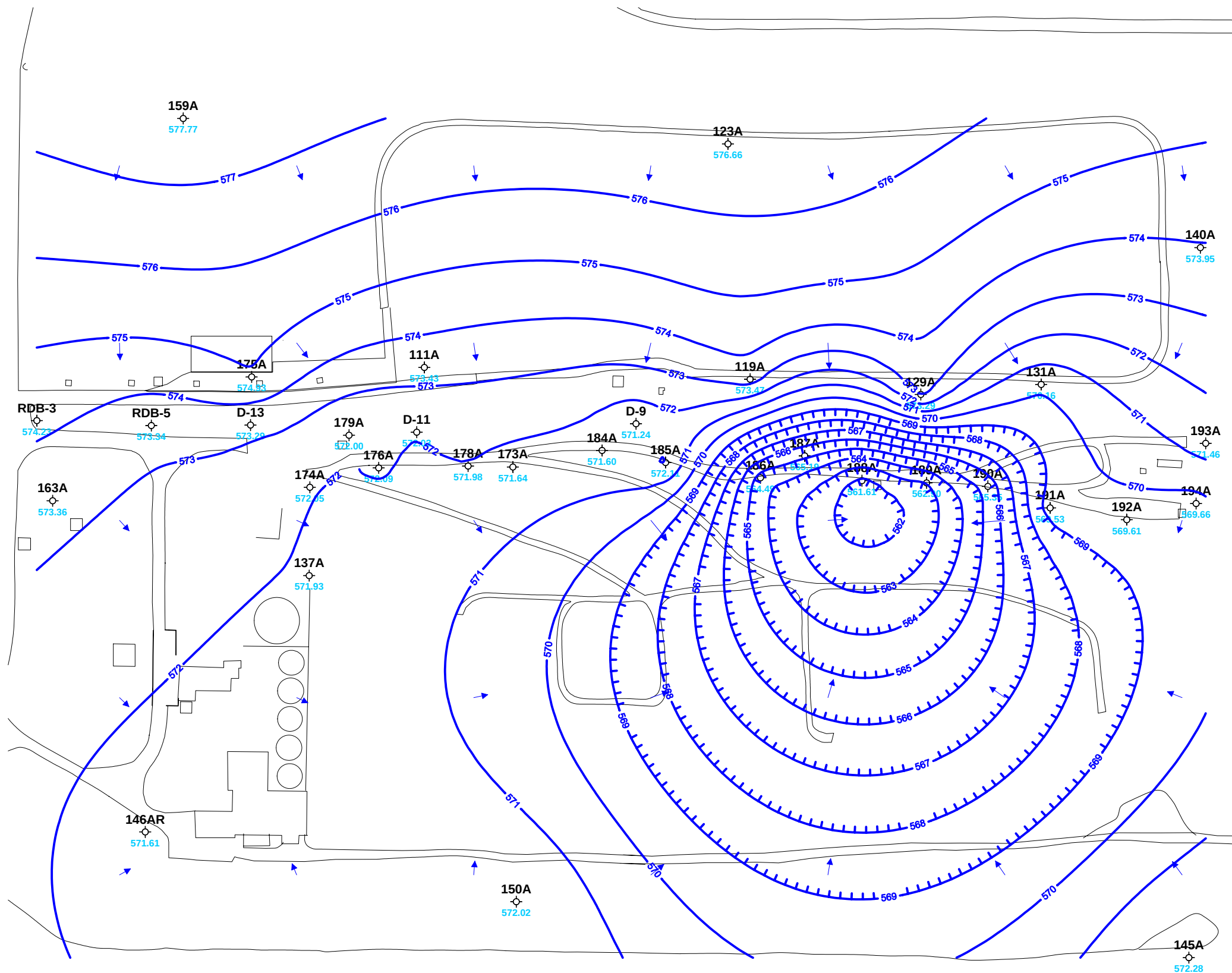


Structure

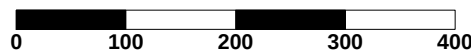


Road

Figure 1
Potentiometric Surface Map
DuPont Necco Park: AT-Zone
February 23, 2007



Scale: Feet



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LEGEND

3B

Well ID



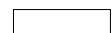
Monitoring Well



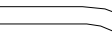
Pumping Well



Potentiometric Contour

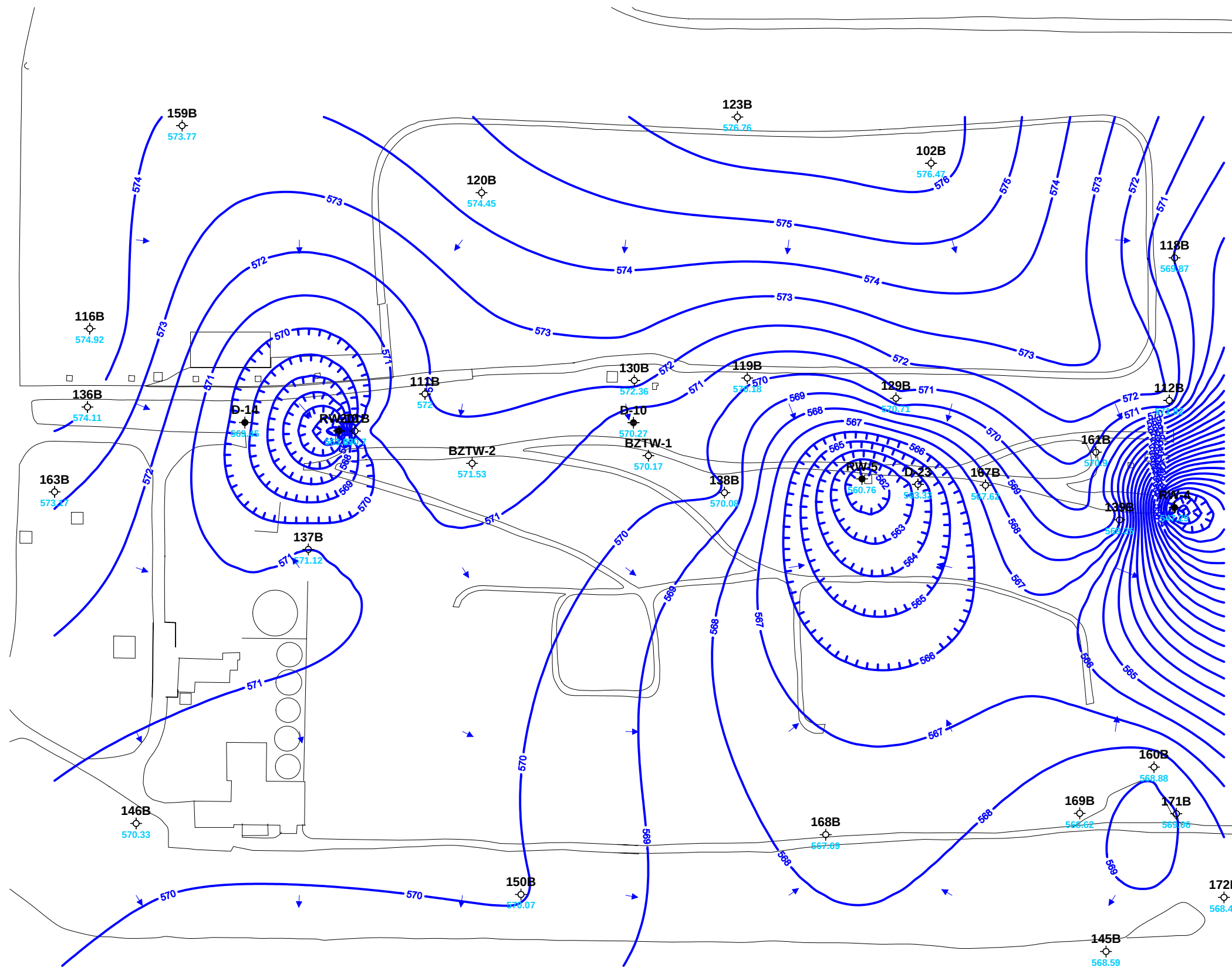


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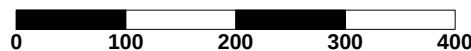


Road

Figure 2
Potentiometric Surface Map
DuPont Necco Park: A-Zone
February 23, 2007



Scale: Feet



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LEGEND

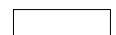
3B Well ID

Monitoring Well

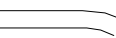
Pumping Well



Potentiometric Contour

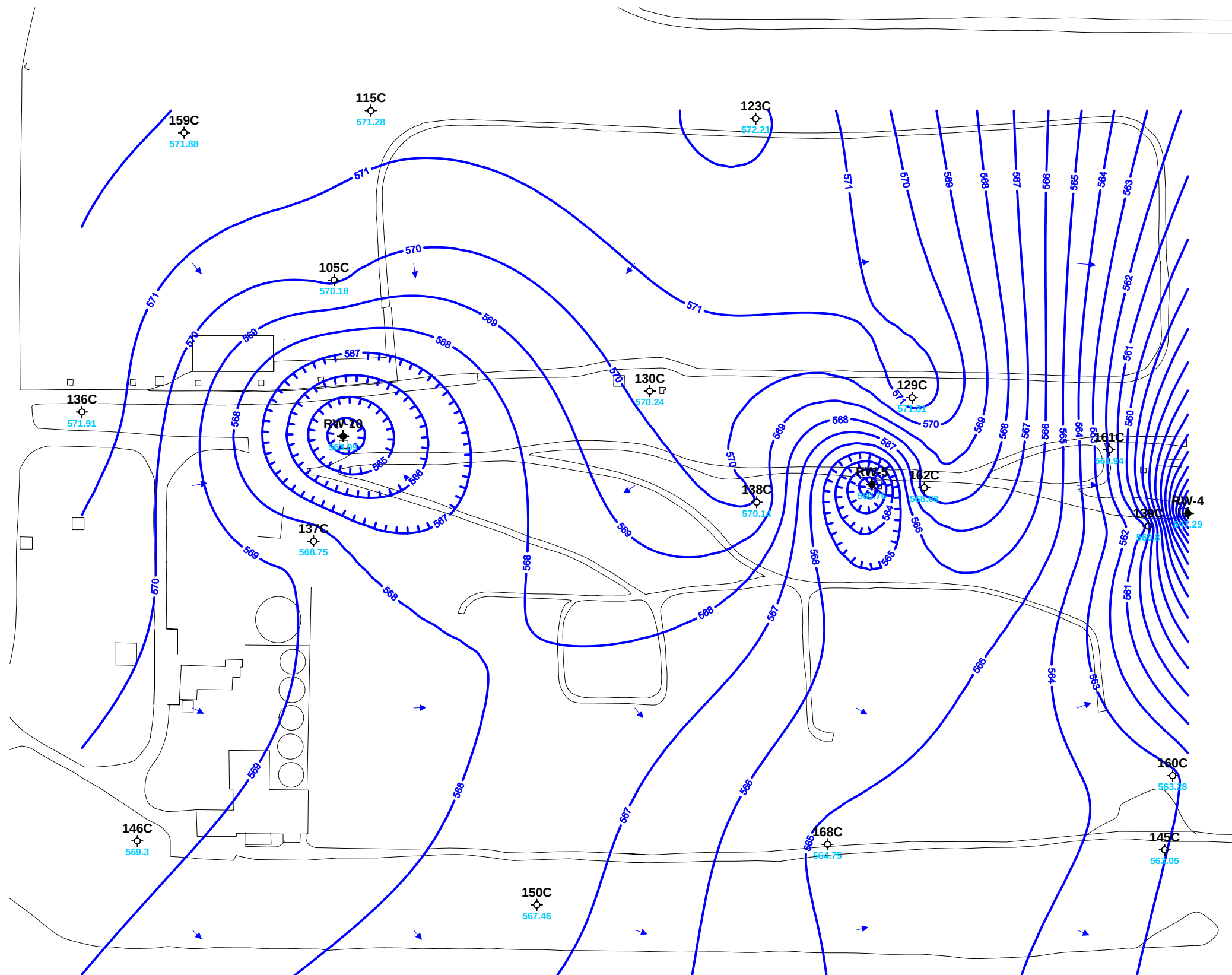


Structure



Road

Figure 3
Potentiometric Surface Map
DuPont Necco Park: B-Zone
February 23, 2007



Scale: Feet



Note: Groundwater elevation data from 112C was not used in the generation of potentiometric contours due to anomalous reading.



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LEGEND

3B

Well ID



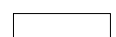
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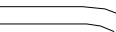
Pumping Well



Potentiometric Contour

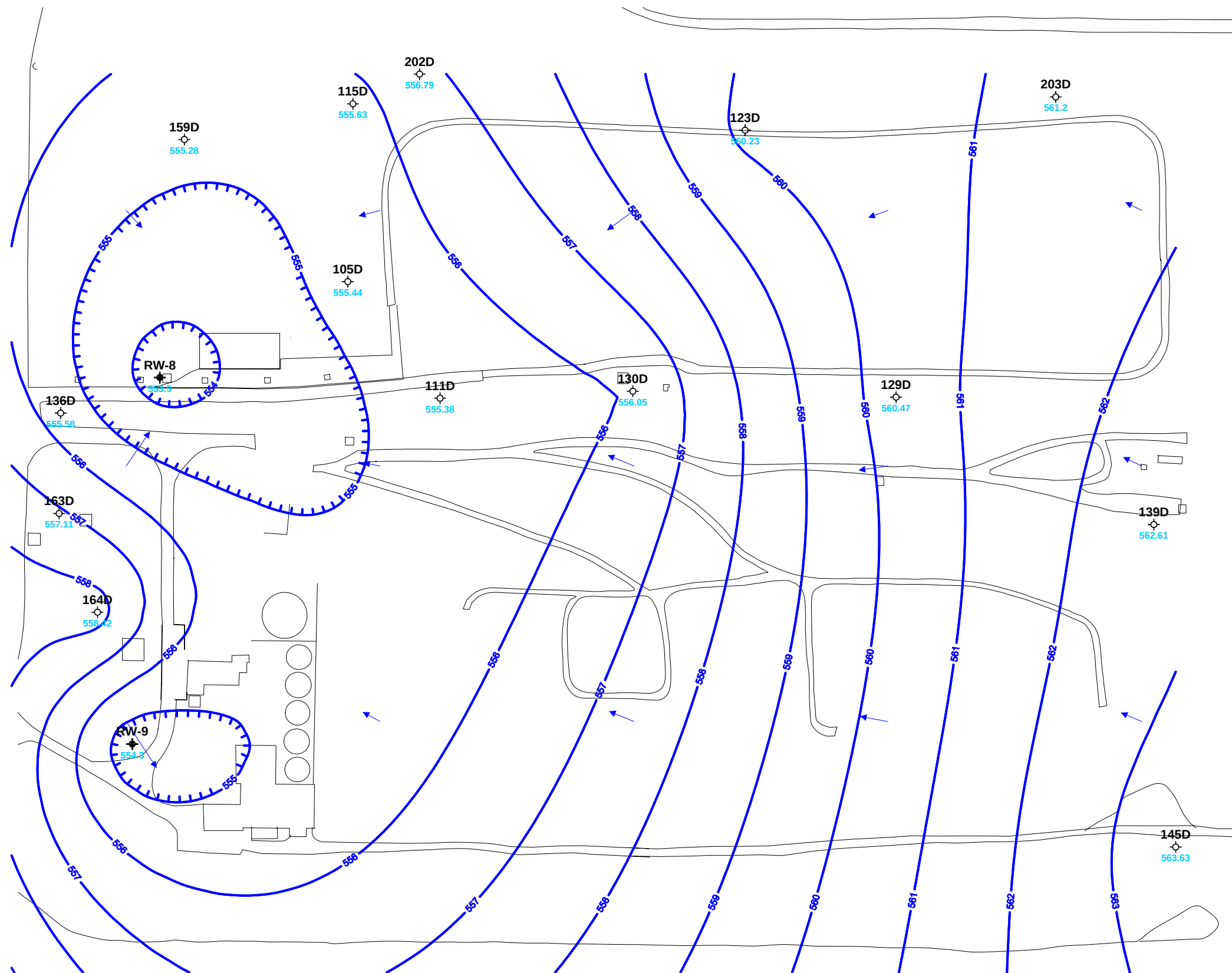


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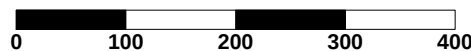


Road

Figure 4
Potentiometric Surface Map
DuPont Necco Park: C-Zone
February 23, 2007



Scale: Feet



Locations 137D, 158D and 165D are no longer used for long-term hydraulic monitoring.



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LEGEND

3B

Well ID



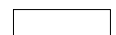
Monitoring Well



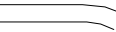
Pumping Well



Potentiometric Contour

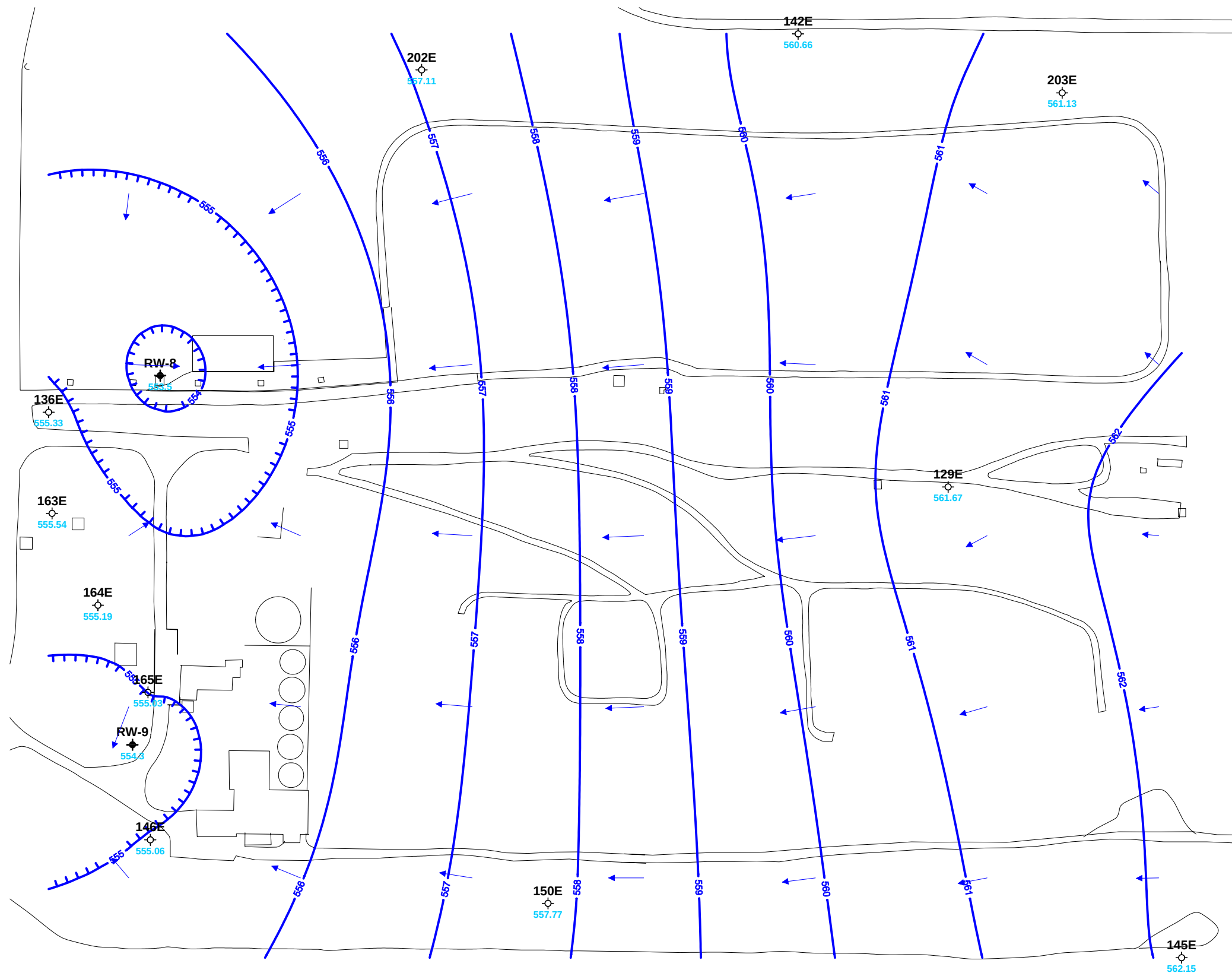


Structure



Road

Figure 5
Potentiometric Surface Map
DuPont Necco Park: D-Zone
February 23, 2007



Scale: Feet



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LEGEND

3B

Well ID



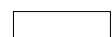
Monitoring Well



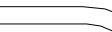
Pumping Well



Potentiometric Contour

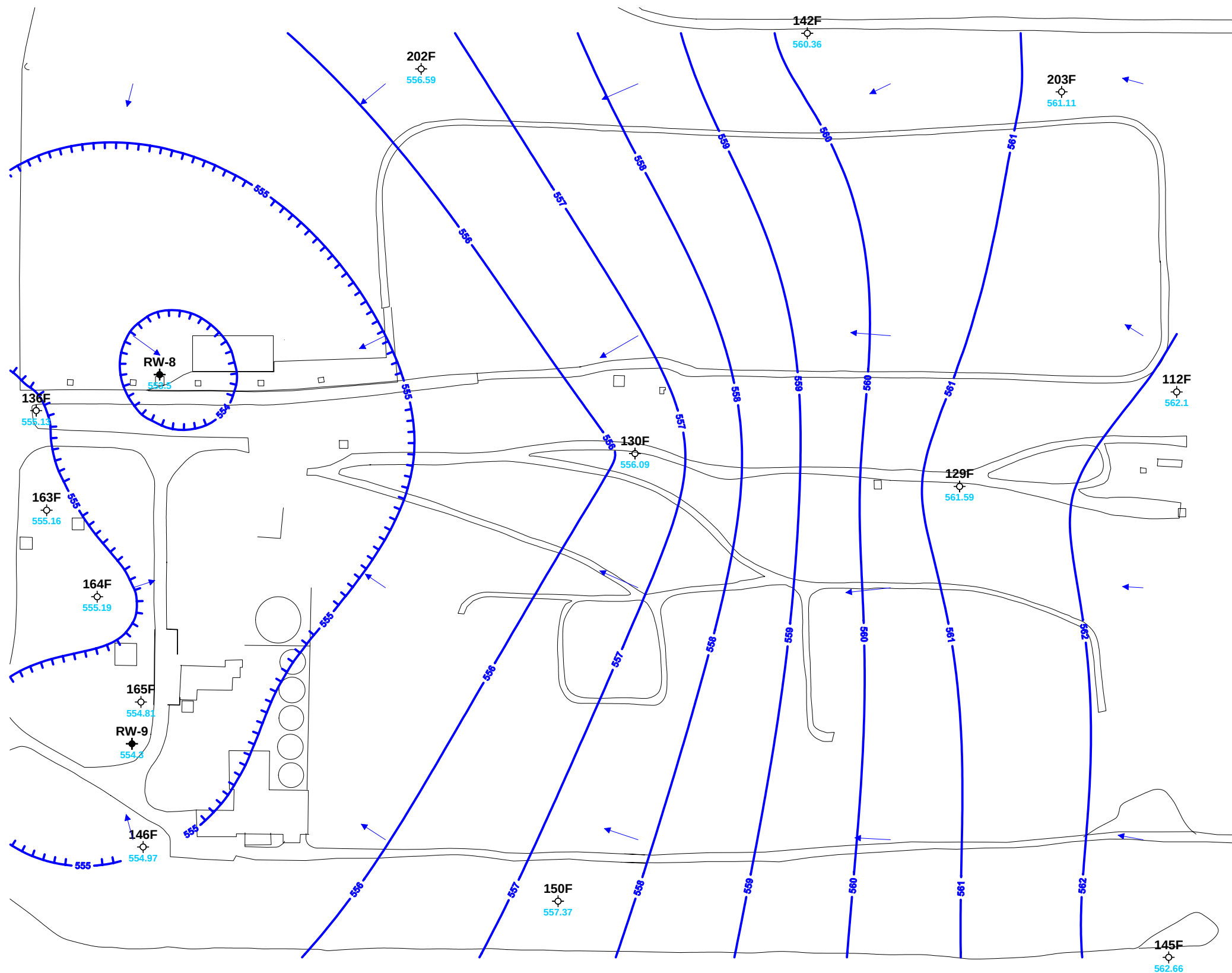


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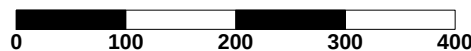


Road

Figure 6
Potentiometric Surface Map
DuPont Necco Park: E-Zone
February 23, 2007



Scale: Feet



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LEGEND

3B

Well ID



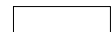
Monitoring Well



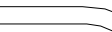
Pumping Well



Potentiometric Contour



Structure



Road

Figure 7
Potentiometric Surface Map
DuPont Necco Park: F-Zone
February 23, 2007

APPENDICES

Appendix A

Groundwater Elevation Data

Appendix A
Groundwater Elevation Data
1Q07
DuPont Necco Park

Location	Northing	Easting	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time
119AT	1128026.87	1037830.98	13.35	586.62	573.27	2/23/2007	12:31
129AT	1128003.66	1038112.64	11.59	584.94	573.35	2/23/2007	12:35
180AT	1127926.46	1038057.62	6.80	579.47	572.67	2/23/2007	12:47
184AT	1127917.34	1037602.93	7.99	579.69	571.70	2/23/2007	12:07
185AT	1127898.83	1037716.92	9.06	580.69	571.63	2/23/2007	12:26
186AT	1127873.53	1037861.26	8.48	580.10	571.62	2/23/2007	12:27
187AT	1127911.17	1037915.70	7.49	579.30	571.81	2/23/2007	12:37
188AT	1127871.96	1038002.60	8.18	580.59	572.41	2/23/2007	12:40
189AT	1127868.82	1038117.50	7.89	580.40	572.51	2/23/2007	12:52
190AT	1127861.83	1038208.42	8.40	580.92	572.52	2/23/2007	13:01
191AT	1127822.66	1038308.01	8.48	581.06	572.58	2/23/2007	13:06
192AT	1127814.19	1038420.99	12.45	584.46	572.01	2/23/2007	13:10
193AT	1127929.44	1038531.02	4.85	583.09	578.24	2/23/2007	13:28
194AT	1127846.12	1038525.85	10.53	584.93	574.40	2/23/2007	13:22
111A	1128045.35	1037339.18	13.46	586.89	573.43	2/23/2007	12:18
119A	1128027.31	1037838.80	12.87	586.34	573.47	2/23/2007	12:29
123A	1128388.18	1037804.86	21.27	597.93	576.66	2/23/2007	13:05
129A	1128004.00	1038100.68	11.51	584.80	573.29	2/23/2007	12:34
131A	1128019.25	1038285.32	15.27	585.43	570.16	2/23/2007	12:42
137A	1127726.25	1037162.58	7.16	579.09	571.93	2/23/2007	11:47
140A	1128229.21	1038529.40	7.48	581.43	573.95	2/23/2007	12:51
145A	1127140.37	1038511.74	3.56	575.84	572.28	2/23/2007	12:33
146AR	1127333.16	1036911.14	5.31	576.92	571.61	2/23/2007	13:16
150A	1127226.06	1037480.28	3.84	575.86	572.02	2/23/2007	12:15
159A	1128427.18	1036969.45	18.39	596.16	577.77	2/23/2007	13:46
163A	1127841.02	1036769.18	4.78	578.14	573.36	2/23/2007	11:52
173A	1127892.76	1037475.06	9.07	580.71	571.64	2/23/2007	12:03
174A	1127861.59	1037163.61	5.57	577.62	572.05	2/23/2007	11:39
175A	1128030.81	1037074.39	11.88	586.81	574.93	2/23/2007	12:14
176A	1127891.47	1037269.18	7.94	580.03	572.09	2/23/2007	11:49
178A	1127894.12	1037406.32	7.94	579.92	571.98	2/23/2007	12:00
179A	1127941.44	1037223.72	7.01	579.01	572.00	2/23/2007	11:53
184A	1127918.16	1037611.75	8.28	579.88	571.60	2/23/2007	12:09
185A	1127899.64	1037709.18	8.73	580.84	572.11	2/23/2007	12:24
186A	1127876.22	1037854.69	15.27	579.76	564.49	2/23/2007	12:28
187A	1127909.85	1037922.53	14.75	579.94	565.19	2/23/2007	12:38
188A	1127871.92	1038010.28	19.30	580.91	561.61	2/23/2007	12:41
189A	1127868.38	1038109.46	16.92	579.82	562.90	2/23/2007	12:53
190A	1127863.02	1038203.44	15.23	580.58	565.35	2/23/2007	13:02
191A	1127830.07	1038298.90	11.09	580.62	569.53	2/23/2007	13:07
192A	1127811.87	1038416.54	14.47	584.08	569.61	2/23/2007	13:11
193A	1127929.03	1038537.56	12.67	584.13	571.46	2/23/2007	13:26
194A	1127836.71	1038522.85	14.69	584.35	569.66	2/23/2007	13:23
D-11	1127946.03	1037327.59	6.04	578.07	572.03	2/23/2007	11:56
D-13	1127957.08	1037072.61	5.78	579.07	573.29	2/23/2007	11:36
D-9	1127959.11	1037663.85	8.91	580.15	571.24	2/23/2007	12:16
RDB-3	1127963.86	1036745.00	5.08	579.31	574.23	2/23/2007	11:44
RDB-5	1127956.35	1036920.48	5.23	578.57	573.34	2/23/2007	12:02
102B	1128360.69	1038131.75	22.54	599.01	576.47	2/23/2007	13:04
111B	1128002.60	1037345.81	12.94	584.94	572.00	2/23/2007	12:19
112B	1127992.48	1038501.56	9.98	581.90	571.92	2/23/2007	12:44
116B	1128103.94	1036825.21	15.13	590.05	574.92	2/23/2007	12:10
118B	1128213.86	1038509.90	14.03	583.90	569.87	2/23/2007	12:49
119B	1128027.36	1037846.33	16.59	586.77	570.18	2/23/2007	12:32
120B	1128314.92	1037433.77	24.73	599.18	574.45	2/23/2007	13:12
123B	1128432.49	1037831.02	19.22	595.98	576.76	2/23/2007	13:10
129B	1127995.87	1038077.21	14.53	585.24	570.71	2/23/2007	12:37
130B	1128023.54	1037670.85	13.27	585.63	572.36	2/23/2007	12:24
136B	1127982.31	1036821.69	7.58	581.69	574.11	2/23/2007	11:43
137B	1127761.15	1037164.63	7.19	578.31	571.12	2/23/2007	11:43
138B	1127849.27	1037810.91	13.90	583.98	570.08	2/23/2007	12:34

Appendix A
Groundwater Elevation Data
1Q07
DuPont Necco Park

Location	Northing	Easting	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time
139B	1127807.13	1038424.39	16.14	585.39	569.25	2/23/2007	13:14
145B	1127137.11	1038403.39	6.89	575.48	568.59	2/23/2007	12:34
146B	1127335.76	1036897.21	6.57	576.90	570.33	2/23/2007	13:17
149B	1126896.31	1037086.11	4.19	572.87	568.68	2/23/2007	11:53
150B	1127225.61	1037494.87	5.92	575.99	570.07	2/23/2007	12:16
151B	1126333.87	1038025.23	7.72	573.36	565.64	2/23/2007	11:35
159B	1128419.28	1036968.72	22.60	596.37	573.77	2/23/2007	13:47
160B	1127423.38	1038477.86	13.87	582.75	568.88	2/23/2007	12:57
161B	1127912.18	1038387.68	11.94	582.84	570.90	2/23/2007	13:32
163B	1127850.55	1036770.59	4.77	577.94	573.17	2/23/2007	11:53
167B	1127860.78	1038216.11	13.31	580.93	567.62	2/23/2007	13:04
168B	1127318.51	1037968.12	11.21	578.90	567.69	2/23/2007	12:50
169B	1127351.42	1038362.54	11.81	580.43	568.62	2/23/2007	12:53
171B	1127351.06	1038512.59	10.48	579.54	569.06	2/23/2007	13:01
172B	1127220.99	1038586.57	8.46	576.95	568.49	2/23/2007	12:40
201B	1127945.00	1037237.00	8.55	579.25	570.70	2/23/2007	11:50
BZTW-1	1127906.69	1037692.81	9.50	579.67	570.17	2/23/2007	12:22
BZTW-2	1127894.81	1037418.98	7.85	579.38	571.53	2/23/2007	11:59
D-23	1127862.27	1038111.33	17.23	580.55	563.32	2/23/2007	12:56
D-10	1127957.91	1037669.50	9.75	580.02	570.27	2/23/2007	12:17
D-14	1127958.30	1037066.15	9.56	579.01	569.45	2/23/2007	11:35
RW-10	1127945.07	1037212.21	14.81	577.90	563.09	2/23/2007	11:52
RW-4	1127826.43	1038509.67	34.23	581.52	547.29	2/23/2007	13:20
RW-5	1127870.67	1038024.41	18.12	578.88	560.76	2/23/2007	12:50
105C	1128184.79	1037198.27	25.10	595.28	570.18	2/23/2007	13:55
112C	1127992.67	1038482.45	16.04	582.93	566.89	2/23/2007	12:46
115C	1128444.91	1037254.81	24.65	595.93	571.28	2/23/2007	13:59
123C	1128432.59	1037845.93	23.21	595.42	572.21	2/23/2007	13:09
129C	1128003.98	1038086.06	13.87	585.68	571.81	2/23/2007	12:38
130C	1128014.18	1037683.21	15.27	585.51	570.24	2/23/2007	12:25
136C	1127981.98	1036810.91	9.71	581.62	571.91	2/23/2007	11:42
137C	1127783.63	1037166.76	9.72	578.47	568.75	2/23/2007	11:42
138C	1127843.37	1037847.46	16.92	587.06	570.14	2/23/2007	12:31
139C	1127806.90	1038448.81	24.47	585.27	560.80	2/23/2007	13:16
145C	1127309.48	1038474.02	12.85	575.90	563.05	2/23/2007	13:03
146C	1127323.07	1036896.17	7.05	576.35	569.30	2/23/2007	13:18
149C	1126909.02	1037087.33	5.83	573.26	567.43	2/23/2007	11:55
150C	1127225.08	1037509.65	8.67	576.13	567.46	2/23/2007	12:17
151C	1126332.94	1038039.88	8.48	573.18	564.70	2/23/2007	11:40
159C	1128411.01	1036967.85	25.48	597.36	571.88	2/23/2007	13:48
160C	1127423.38	1038486.28	19.44	582.72	563.28	2/23/2007	12:59
161C	1127924.10	1038388.90	20.70	582.64	561.94	2/23/2007	13:31
162C	1127865.75	1038104.77	12.32	581.00	568.68	2/23/2007	12:55
168C	1127317.98	1037956.21	14.46	579.21	564.75	2/23/2007	12:51
105D	1128183.25	1037219.94	39.33	594.77	555.44	2/23/2007	13:57
111D	1128002.93	1037362.53	28.92	584.30	555.38	2/23/2007	12:22
115D	1128458.17	1037227.74	40.99	596.62	555.63	2/23/2007	14:01
123D	1128417.50	1037834.13	36.28	596.51	560.23	2/23/2007	13:08
129D	1128004.61	1038067.56	25.56	586.03	560.47	2/23/2007	12:40
130D	1128013.73	1037660.60	28.91	584.96	556.05	2/23/2007	12:26
136D	1127980.00	1036775.87	24.10	579.68	555.58	2/23/2007	11:41
139D	1127807.64	1038466.13	22.88	585.49	562.61	2/23/2007	13:17
145D	1127308.84	1038499.95	12.42	576.05	563.63	2/23/2007	13:05
148D	1127204.71	1035908.79	7.56	576.38	568.82	2/23/2007	11:06
149D	1126923.37	1037088.12	14.99	572.86	557.87	2/23/2007	11:56
159D	1128403.06	1036967.10	42.39	597.67	555.28	2/23/2007	13:50
163D	1127824.60	1036773.57	21.71	578.82	557.11	2/23/2007	11:54
164D	1127671.92	1036832.82	19.00	577.42	558.42	2/23/2007	11:57
202D	1128504.19	1037330.86	36.94	593.73	556.79	2/23/2007	13:36
203D	1128468.98	1038314.52	32.66	593.86	561.20	2/23/2007	13:40
RW-8	1128034.87	1036929.26	32.02	585.52	553.50	2/23/2007	12:12

Appendix A
Groundwater Elevation Data
1Q07
DuPont Necco Park

Location	Northing	Easting	Depth to Water	Casing Elevation	Groundwater Elevation	Date	Time
RW-9	1127468.08	1036886.74	20.83	575.13	554.30	2/23/2007	13:33
129E	1127863.87	1038139.43	19.21	580.88	561.67	2/23/2007	12:59
136E	1127978.64	1036757.99	24.26	579.59	555.33	2/23/2007	11:40
142E	1128559.48	1037909.07	25.34	586.00	560.66	2/23/2007	13:22
145E	1127141.08	1038498.04	13.83	575.98	562.15	2/23/2007	12:35
146E	1127322.13	1036914.16	21.02	576.08	555.06	2/23/2007	13:19
150E	1127224.48	1037524.83	18.38	576.15	557.77	2/23/2007	12:18
163E	1127823.25	1036763.28	23.52	579.06	555.54	2/23/2007	11:55
164E	1127682.25	1036833.59	22.13	577.32	555.19	2/23/2007	11:58
165E	1127548.43	1036910.54	22.53	577.56	555.03	2/23/2007	13:30
202E	1128504.19	1037330.86	36.62	593.73	557.11	2/23/2007	13:37
203E	1128468.98	1038314.52	32.73	593.86	561.13	2/23/2007	13:41
112F	1128008.20	1038491.26	21.19	583.29	562.10	2/23/2007	12:43
123F	1128387.18	1037821.84	38.56	598.57	560.01	2/23/2007	13:05
129F	1127863.10	1038157.84	19.77	581.36	561.59	2/23/2007	12:58
130F	1127913.72	1037659.29	25.40	581.49	556.09	2/23/2007	12:14
136F	1127979.63	1036739.60	25.20	580.33	555.13	2/23/2007	13:40
142F	1128558.81	1037923.88	25.33	585.69	560.36	2/23/2007	13:23
145F	1127140.18	1038479.05	13.39	576.05	562.66	2/23/2007	12:36
146F	1127309.67	1036903.82	21.07	576.04	554.97	2/23/2007	13:20
148F	1127202.85	1035931.55	20.49	576.21	555.72	2/23/2007	11:08
150F	1127226.41	1037541.14	18.61	575.98	557.37	2/23/2007	12:19
163F	1127826.67	1036755.67	23.60	578.76	555.16	2/23/2007	11:56
164F	1127693.84	1036833.27	22.08	577.27	555.19	2/23/2007	11:59
165F	1127532.25	1036900.44	22.91	577.72	554.81	2/23/2007	13:31
202F	1128504.19	1037330.86	37.14	593.73	556.59	2/23/2007	13:38
203F	1128468.98	1038314.52	32.75	593.86	561.11	2/23/2007	13:42
130G	1127915.17	1037646.06	25.45	580.79	555.34	2/23/2007	12:13
136G	1127970.14	1036748.01	20.79	579.76	558.97	2/23/2007	13:41
136G	1127970.14	1036748.01	20.76	579.76	559.00	2/23/2007	11:39
141G	1128492.05	1038510.64	27.32	582.53	555.21	2/23/2007	12:57
143G	1128463.51	1036776.15	36.32	591.34	555.02	2/23/2007	13:37

Appendix B

Indicator Parameter Analysis

Appendix B: Analytical Results
Necco Park 1Q07 Treatment System Monitoring
Niagara Falls, NY

Analyte	units	BC-INFLUENT 2/23/07	DEF-INFLUENT 2/23/07	COMB-EFFLUENT 2/23/07	FILTER-BLK 2/23/07	TBLK 2/23/07
Field Parameters						
SPECIFIC CONDUCTANCE (FIELD)	UMHOS/CM	39340	4653	9173	NS	NS
TEMPERATURE (FIELD)	DEGREES C	10.2	11.7	10.8	NS	NS
COLOR QUALITATIVE (FIELD)	NS	grey	grey	tan	NS	NS
PH (FIELD)	STD UNITS	4.86	7.17	7.47	NS	NS
REDOX (FIELD)	MV	-150	-259	-140	NS	NS
TURBIDITY QUANTITATIVE (FIELD)	INTU	31.2	65.2	70.9	NS	NS
Volatile Organics						
1,1,2,2-TETRACHLOROETHANE	ug/l	6000	1500	860	NS	<0.22
1,1,2-TRICHLOROETHANE	ug/l	2200	2800	680	NS	<0.22
1,1-DICHLOROETHENE	ug/l	490 J	430 J	<4.5	NS	<0.18
1,2-DICHLOROETHANE	ug/l	700 J	190 J	31	NS	<0.16
CARBON TETRACHLORIDE	ug/l	1300	1500	<4.8	NS	<0.19
CHLOROFORM	ug/l	14000	5500	180	NS	<0.16
CIS-1,2 DICHLOROETHENE	ug/l	19000	12000	320	NS	<0.21
TETRACHLOROETHYLENE	ug/l	3900	2100	17 J	NS	<0.19
TRANS-1,2-DICHLOROETHENE	ug/l	1000	920 J	5.9 J	NS	<0.16
TRICHLOROETHENE	ug/l	13000	11000	93	NS	<0.28
VINYL CHLORIDE	ug/l	5900	1800	<5.2	NS	<0.21
Semivolatile Organics						
2,4,5-TRICHLOROPHENOL	ug/l	<38	450	350	NS	NS
2,4,6-TRICHLOROPHENOL	ug/l	<56	240	190	NS	NS
3- AND 4- METHYLPHENOL	ug/l	340 J	29 J	18 J	NS	NS
HEXACHLOROBENZENE	ug/l	<2.6	<0.81	14 J	NS	NS
HEXACHLOROBUTADIENE	ug/l	1200	60 J	200	NS	NS
HEXACHLOROETHANE	ug/l	600 J	15 J	8.2 J	NS	NS
PENTACHLOROPHENOL	ug/l	270 J	760	660	NS	NS
Inorganics						
PHENOL	ug/l	310 J	45 J	78 J	NS	NS
BARIUM, DISSOLVED	ug/l	1380000	140 J	710	NS	NS
BARIUM, TOTAL	ug/l	1480000	110 J	71300	8.0 J	NS
SULFATE	ug/l	1100	907000	404000	NS	NS
TICs						
Tentatively Identified Compound 01	ug/l	6200 J	810 J	1800 J	NS	NS
Total Volatiles	ug/l	66300	38200	2164	NS	0

< and ND = Non detect at stated reporting limit
J= Estimated concentration
NS= Not Sampled