Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Joe Branch
Project Manager
Direct Dial (231) 670-6809

7601 Old Channel Trail
Montague, MI 49437
Fax (231) 894-4033

July 29, 2011

Reference No. 001069

Ms. Gloria M. Sosa
USEPA
Region II, Site Investigation & Compliance Branch
290 Broadway, 20th Floor
New York, NY 10007-1866

Mr. Will Welling
NYSDEC
Remedial Bureau D, 12th Floor
625 Broadway
Albany, NY 12233-7013

Dear Ms. Sosa and Mr. Welling:

Re: **Quarterly Operations Report – Second Quarter 2011**
Hyde Park Remedial Program
Bedrock and Overburden Monitoring Programs

In accordance with the July 2006 "Performance Monitoring Plan," the following is the quarterly data report for the Hyde Park Remedial Program for the period April 1, 2011 through June 30, 2011. A total of 13.5 million gallons of aqueous phase liquid (APL) was collected, treated, and discharged in compliance with our City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial Users Wastewater Discharge Permit #49; no non-aqueous phase liquid (NAPL) was shipped for incineration. Due to record rainfalls this spring, the treatment system processed a higher volume of water this quarter than normal. The potentiometric contours are consistent with previous interpretations. Flow zones 6, 7, and 9 have large dewatered areas between the landfill and the gorge face. The current data continue to support the interpretation of effective hydraulic containment.

The performance monitoring data are presented as follows:

1. Figures 1-9: Showing groundwater contours for the flow zones and overburden
2. Figure 10: Showing continuously recorded water levels at flow zone piezometer PMW-1M-09
3. Table 1: Water Level Elevation Summary
4. Tables 2, 3, and 4: Daily, Weekly, and Quarterly Treatment System Effluent Monitoring Data
5. Attachment 1: Purge well performance graphs indicating daily level and flow information

PW-1U was cleaned April 1 to remove a large amount of sediment and NAPL that had accumulated at the bottom of the well. The pump and motor necessitated replacement. These were replaced, and the well was back on-line April 4, 2011.

PW-3M began experiencing electrical problems in early May affecting the variable speed drive of the well. Repairs were made, and the well went back on-line May 20, 2011 and is now functioning normally.

The secondary storage dike sump pump experienced intermittent failures following its repairs in March. The pump was replaced May 6, 2011 and is currently operational. No further issues have become apparent.

The sand filter unit required updating and repairs during May 2011. The valves were rebuilt, and the control system was upgraded.

The pump in purge well PW-9U required removal and replacement during June 2011. The pump and the motor were removed in early June and replaced June 21, 2011, and the well is now functioning normally.

An electronic copy of this report is included on the attached CD as an Adobe® Acrobat® file. If you have any questions, please feel free to contact me at 231-670-6809 or by email at joseph_branch@oxy.com.

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.

JBranch

Joe Branch
Project Manager
231-670-6809 Cell

JB/JP/adh/37
Encl.

c.c.: M. Anderson, GSH - 1
C. Babcock, GSH - 1
M. Forcucci, NYSDOH – 1*
J. Pentilchuk, CRA - 1
J. Polovich, CRA - 1
B. Sadowski, NYSDEC – CD Only
G. Sosa, USEPA – 4*
W. Welling, NYSDEC – CD Only

*Includes one copy on CD

FIGURES

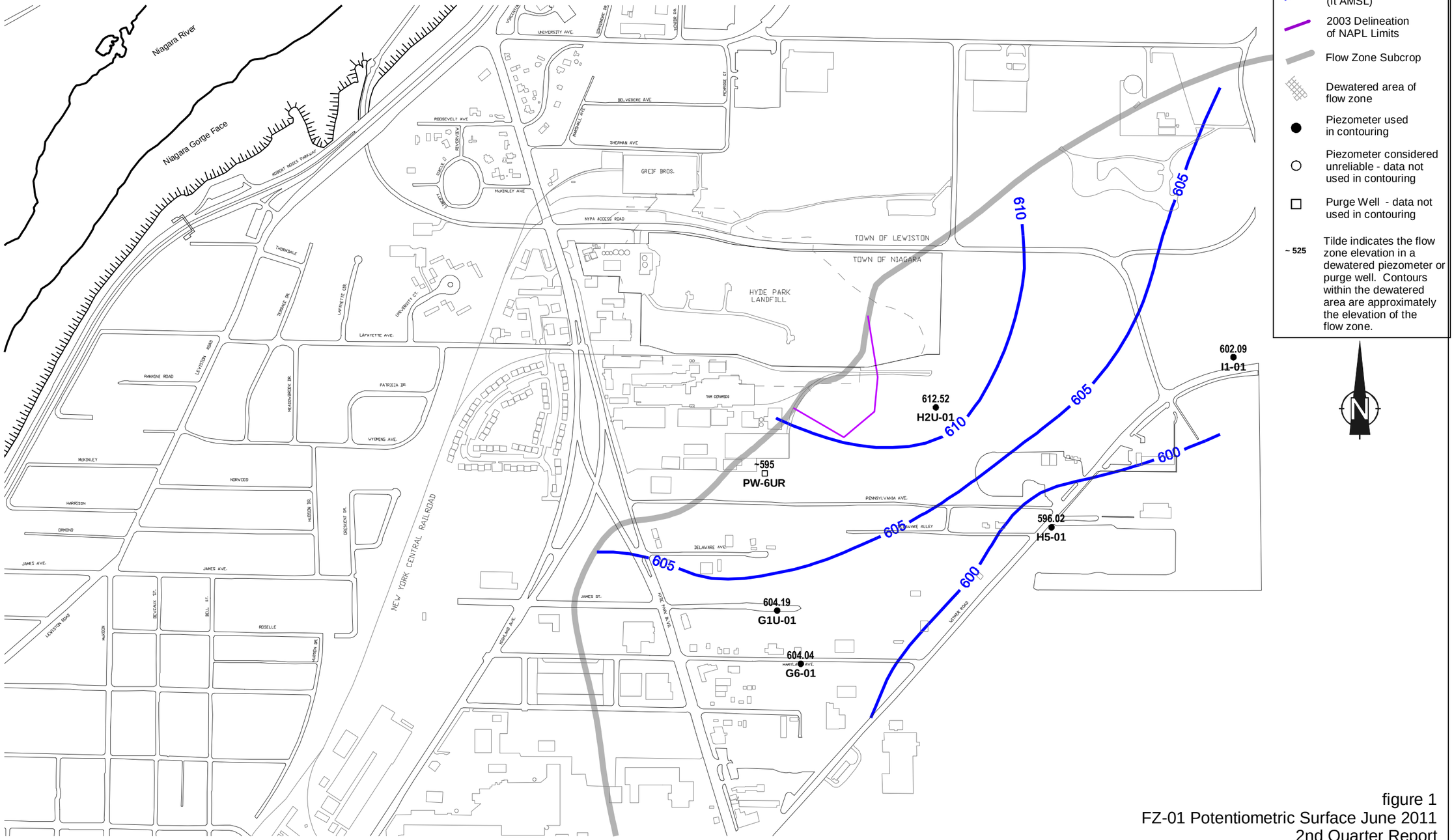
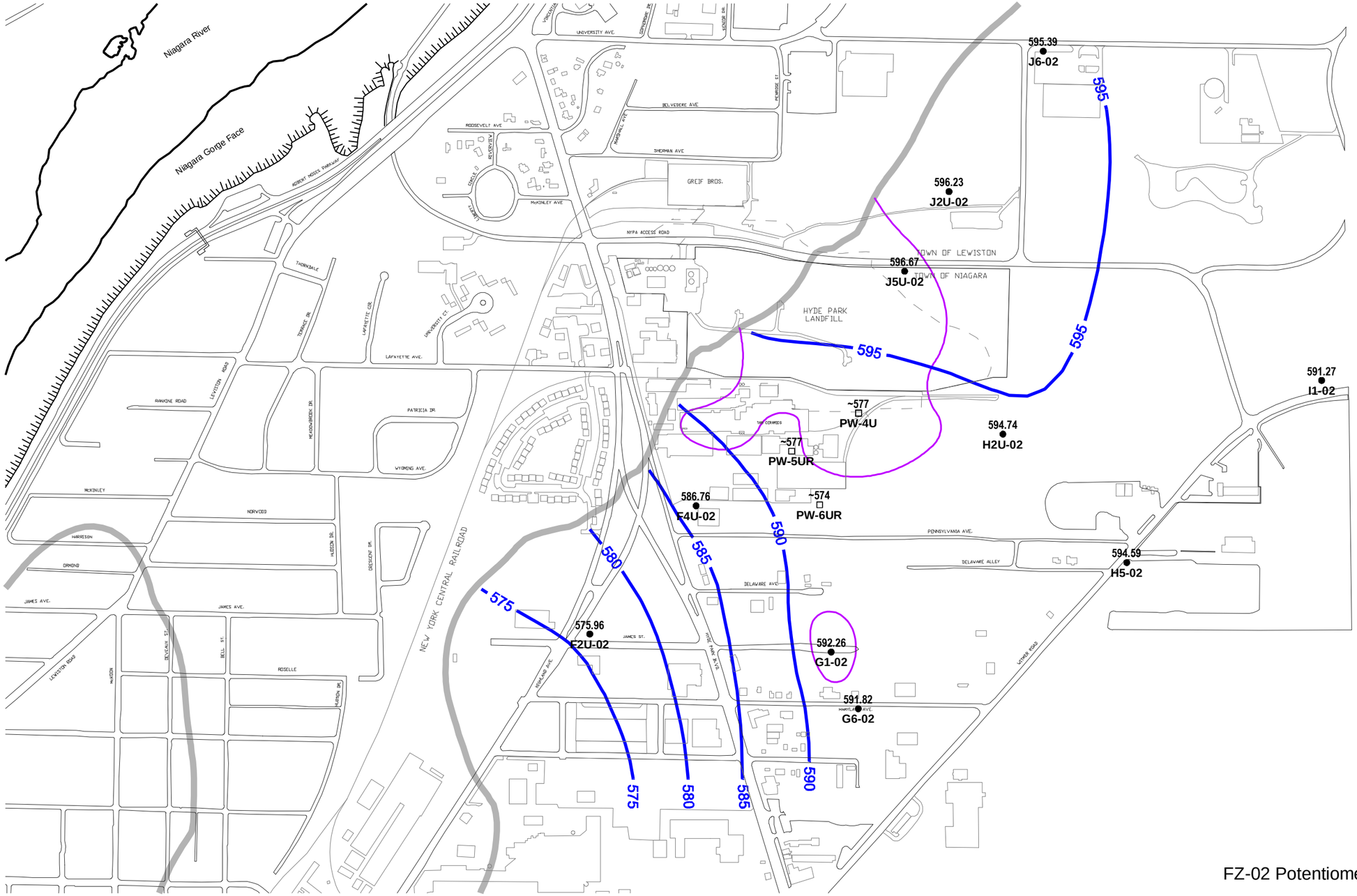


figure 1
FZ-01 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



Legend

- Potentiometric Contour (ft AMSL)
- 2003 Delineation of NAPL Limits
- Flow Zone Subcrop
- Dewatered area of flow zone
- ● Piezometer used in contouring
- ○ Piezometer considered unreliable - data not used in contouring
- □ Purge Well - data not used in contouring
- ~ 525 Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.

N

figure 2
FZ-02 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

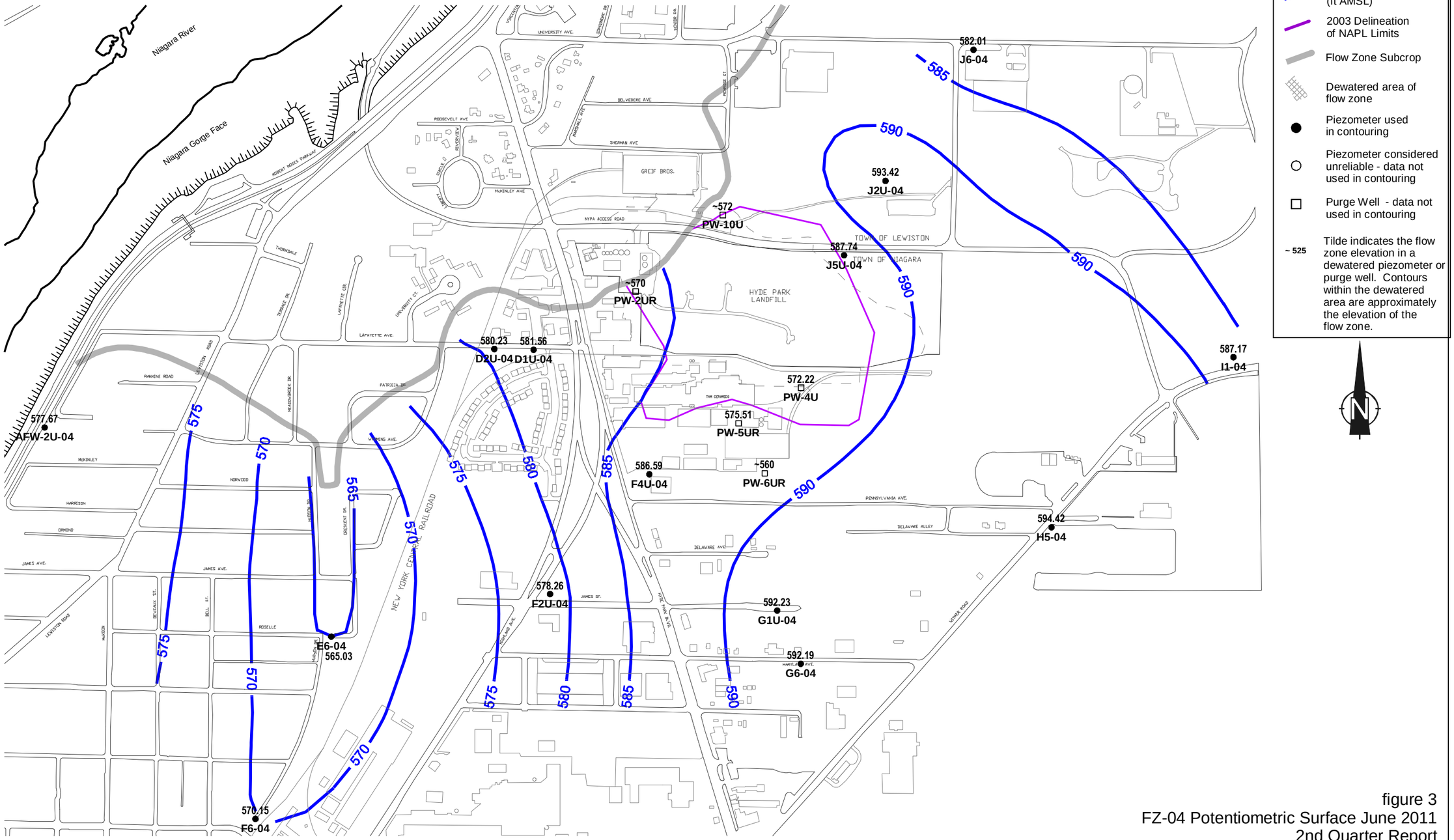


figure 3
FZ-04 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Legend

- Potentiometric Contour (ft AMSL)
- 2003 Delineation of NAPL Limits
- Flow Zone Subcrop
- Dewatered area of flow zone
- ● Piezometer used in contouring
- ○ Piezometer considered unreliable - data not used in contouring
- □ Purge Well - data not used in contouring
- ~ 525 Tilde indicates the flow zone elevation in a dewatered piezometer or purge well. Contours within the dewatered area are approximately the elevation of the flow zone.

N

figure 4
FZ-05 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.

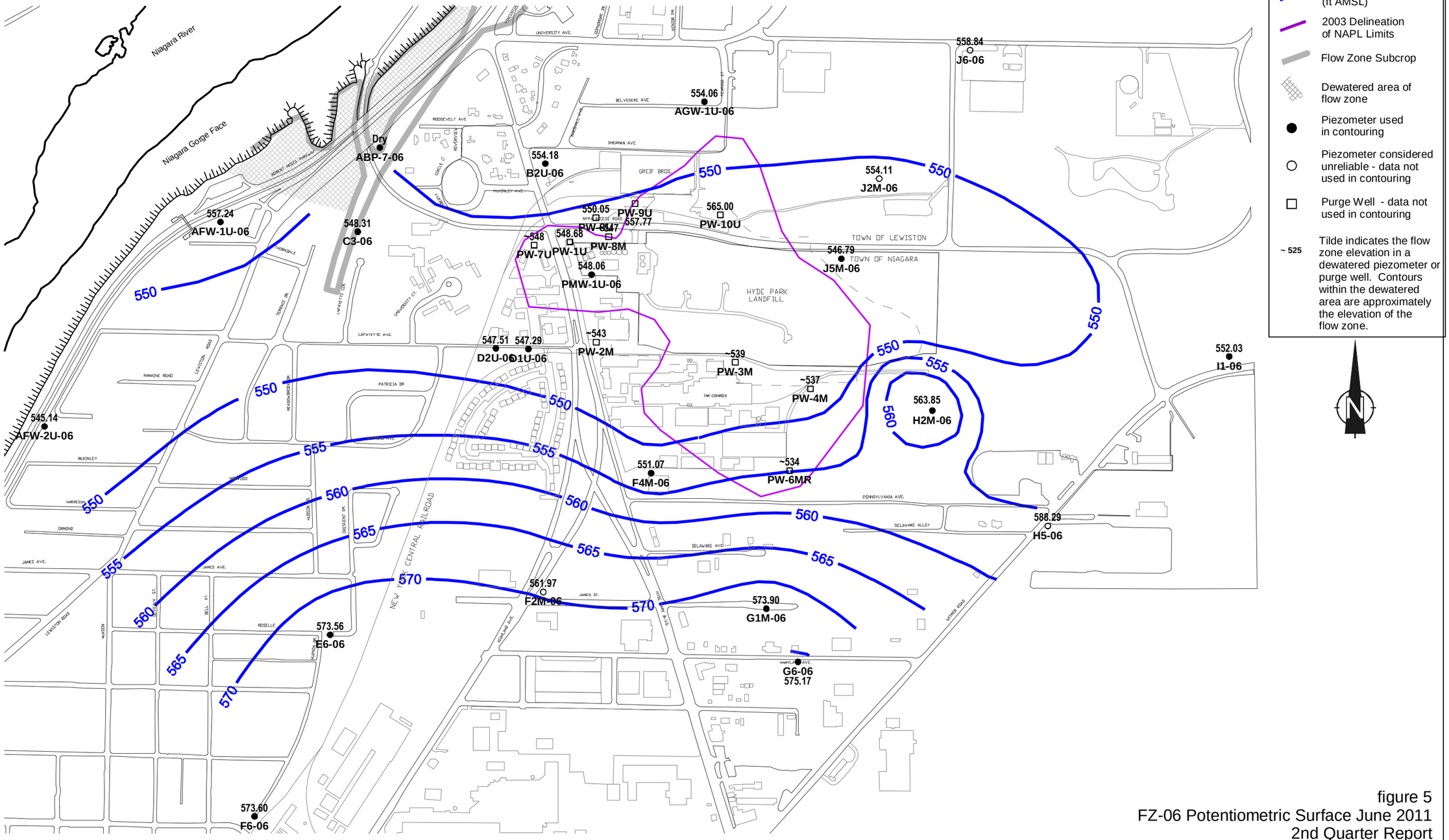


figure 5
FZ-06 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

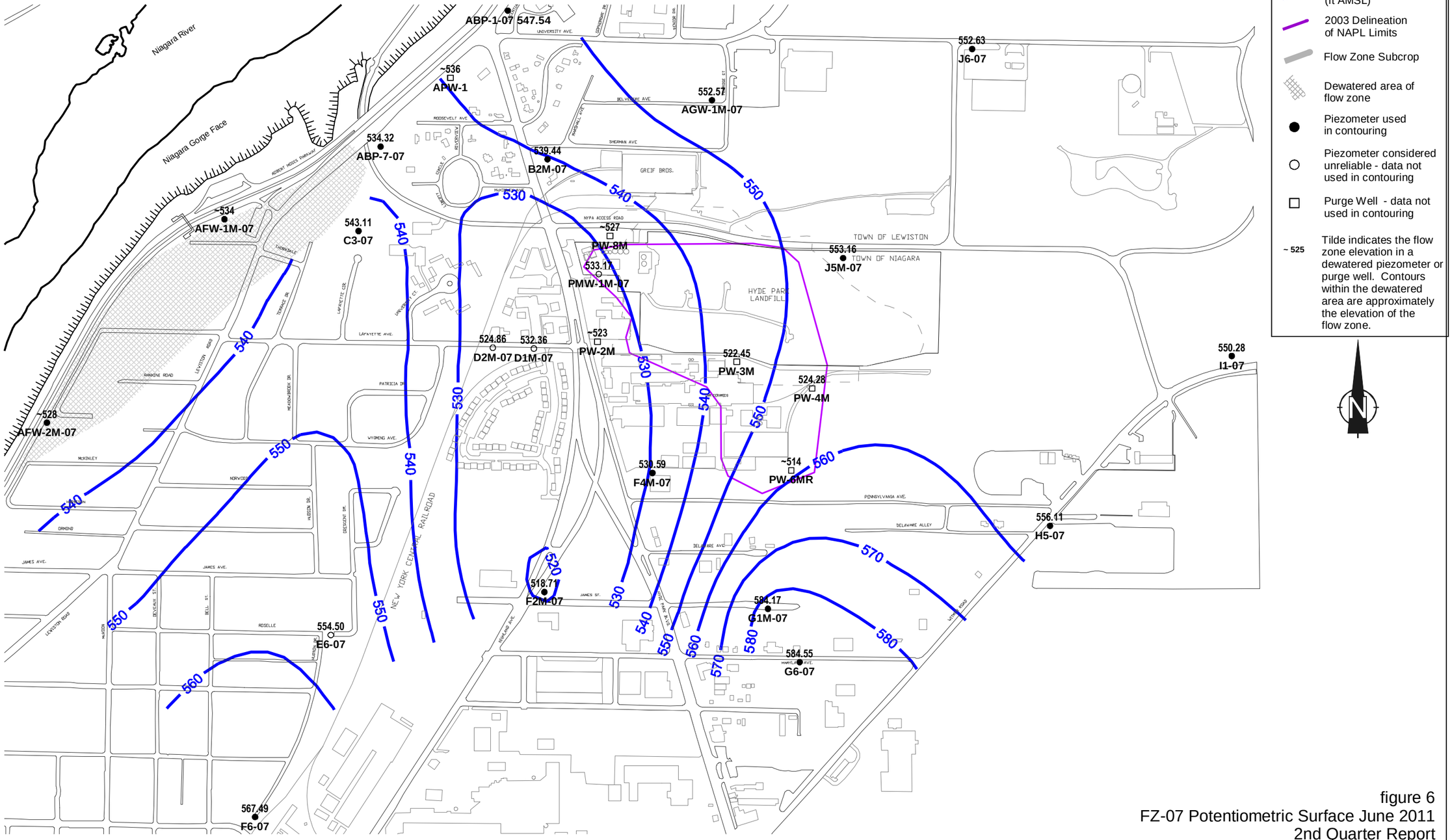


figure 6
FZ-07 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

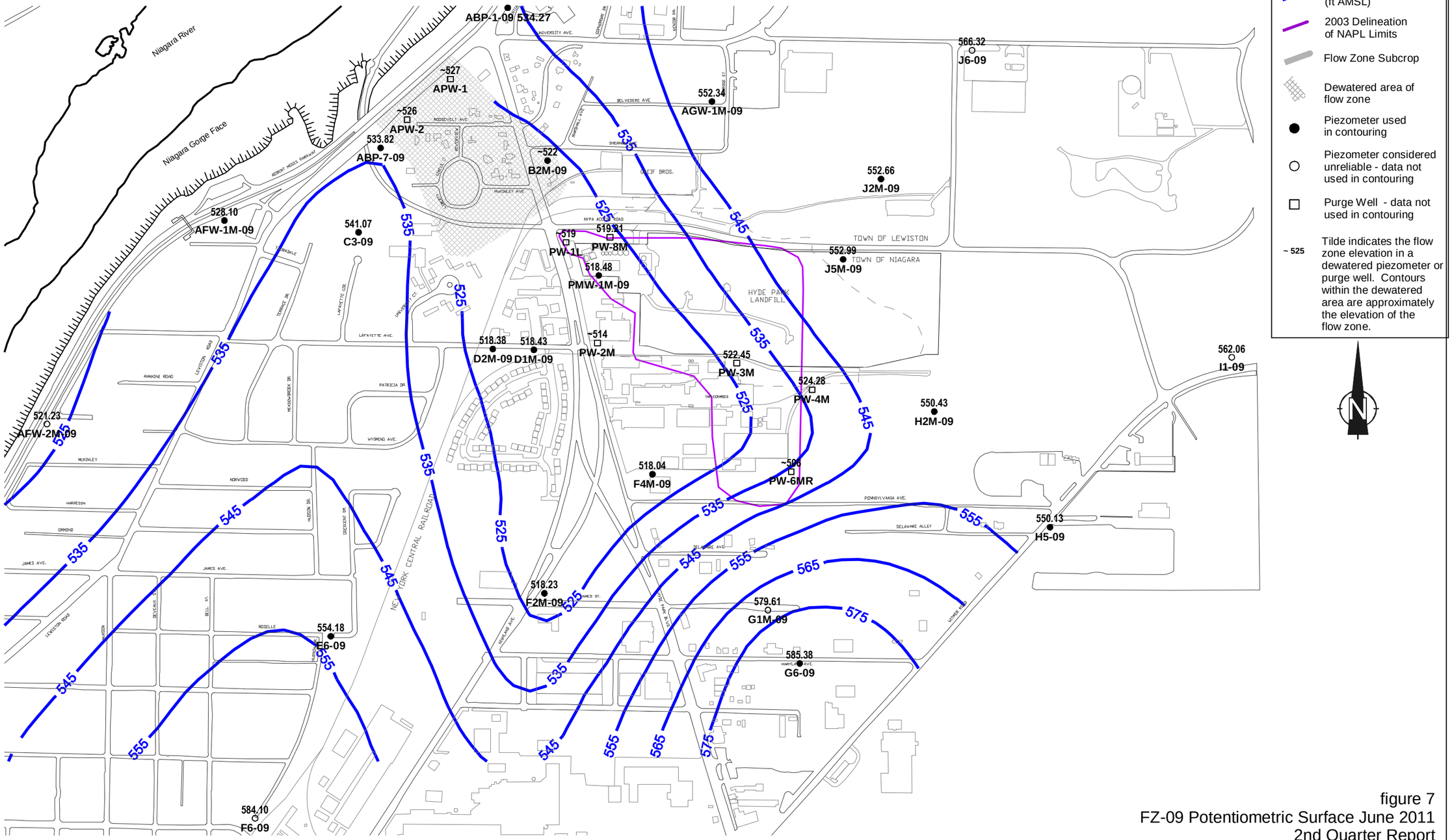


figure 7
FZ-09 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

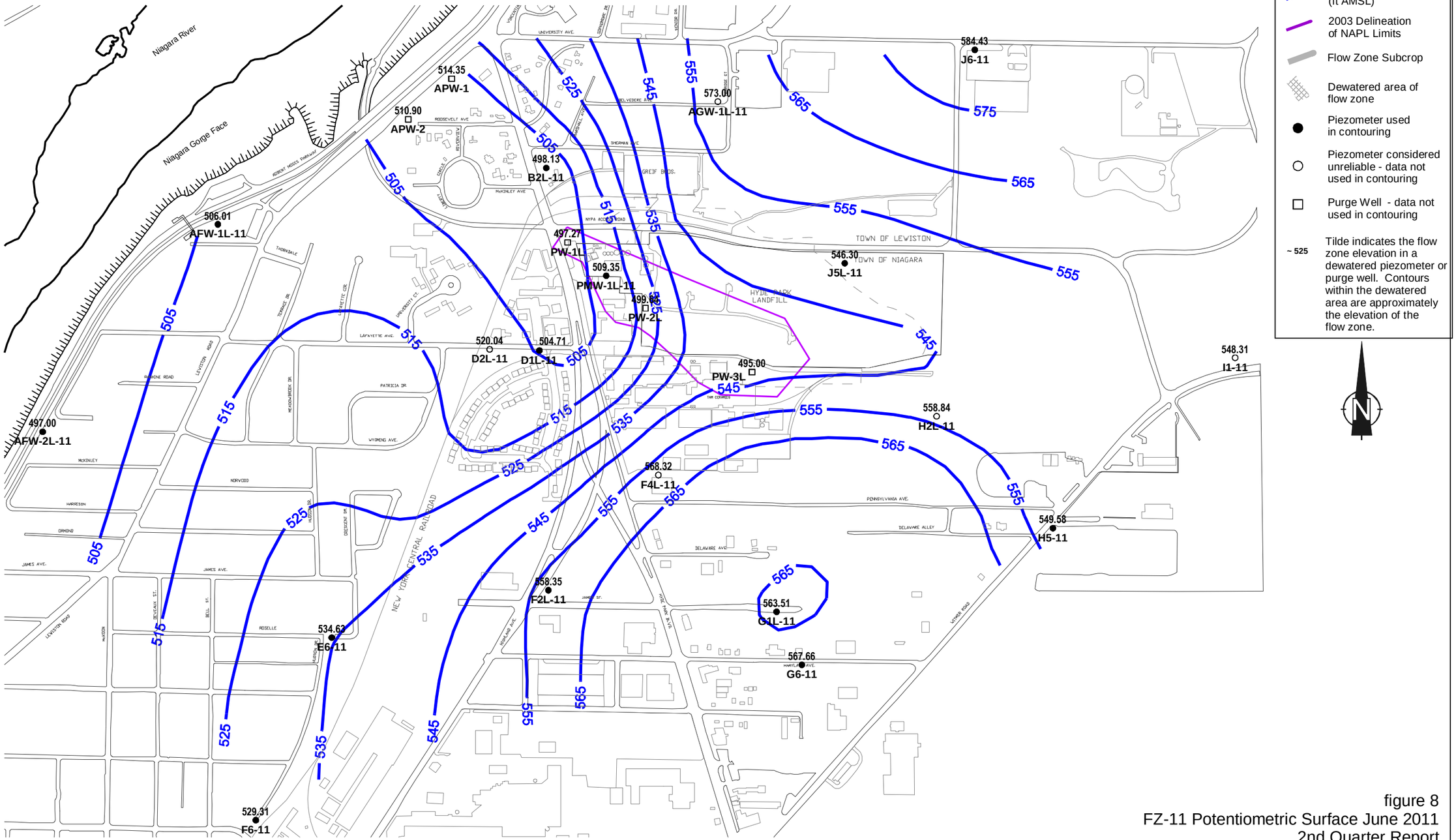
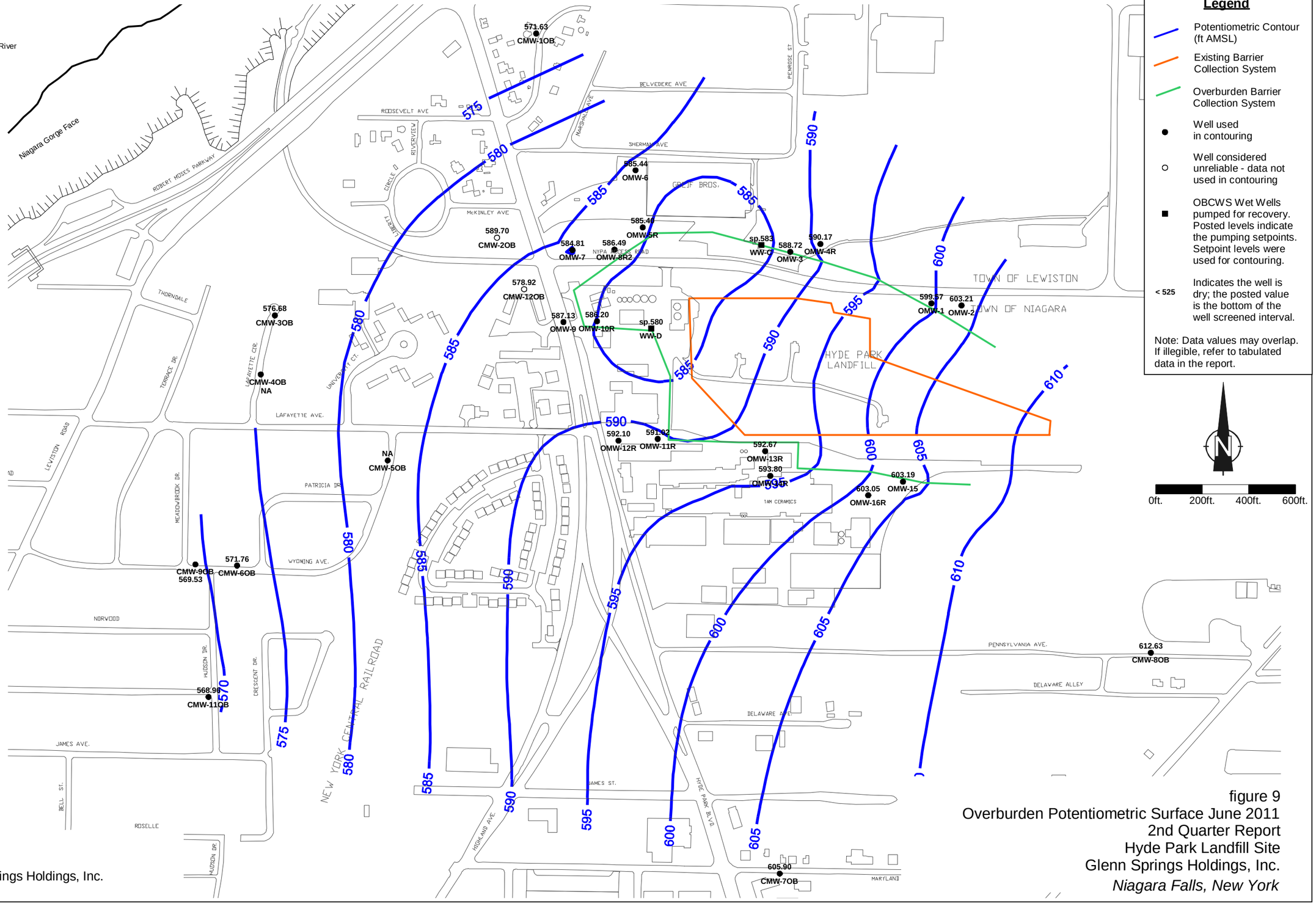


figure 8
FZ-11 Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



Legend

- Potentiometric Contour (ft AMSL)
- Existing Barrier Collection System
- Overburden Barrier Collection System
- ● Well used in contouring
- ○ Well considered unreliable - data not used in contouring
- ■ OBCWS Wet Wells pumped for recovery. Posted levels indicate the pumping setpoints. Setpoint levels were used for contouring.
- < 525 Indicates the well is dry; the posted value is the bottom of the well screened interval.

Note: Data values may overlap. If illegible, refer to tabulated data in the report.

figure 9
Overburden Potentiometric Surface June 2011
2nd Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.

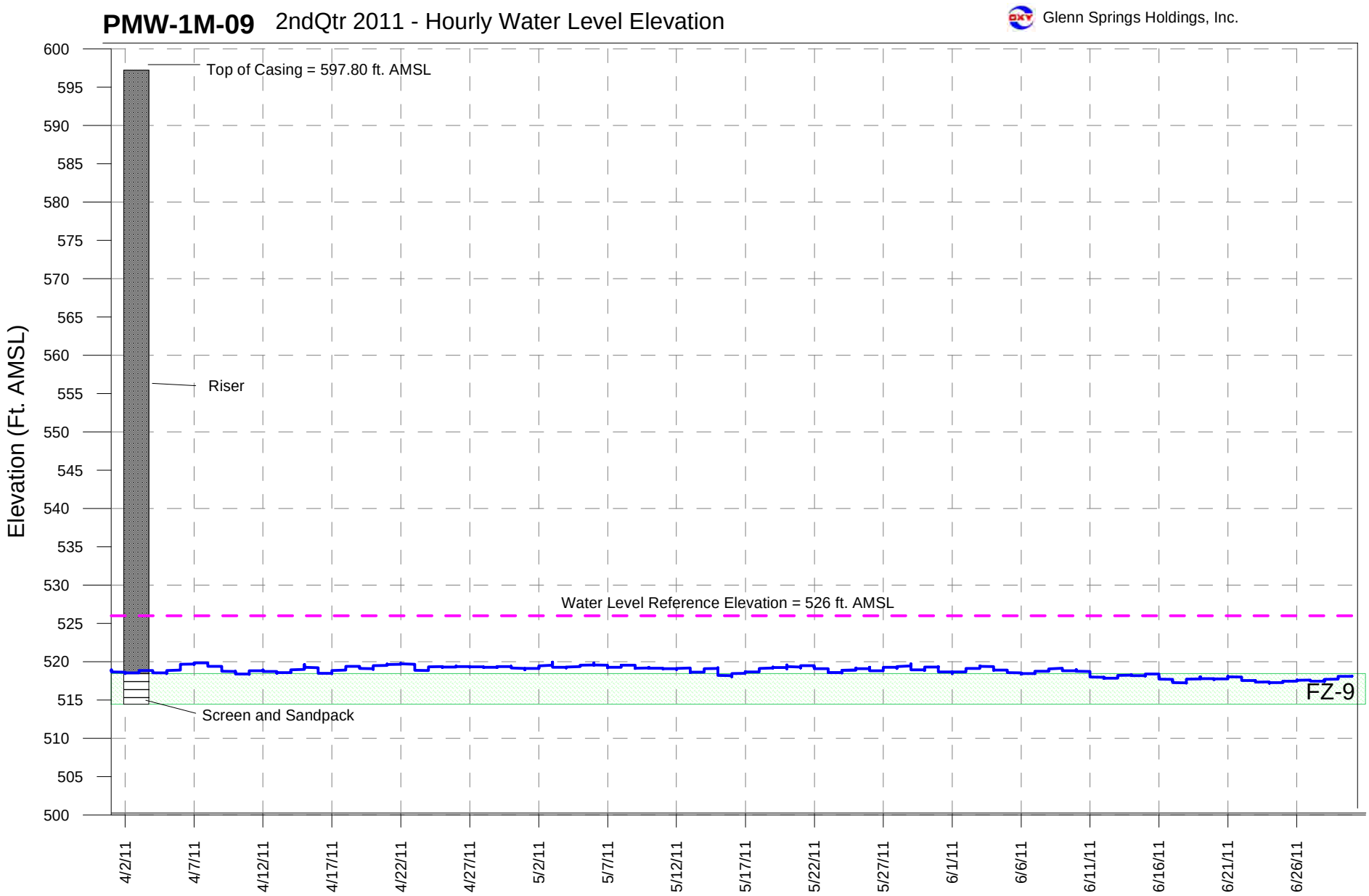

PMW-1M-09
2ndQtr 2011 - Hourly Water Level Elevation
Glenn Springs Holdings, Inc.
Top of Casing = 597.80 ft. AMSL
Riser
Water Level Reference Elevation = 526 ft. AMSL
Screen and Sandpack
FZ-9
Elevation (Ft. AMSL)
600
595
590
585
580
575
570
565
560
555
550
545
540
535
530
525
520
515
510
505
500
4/2/11
4/7/11
4/12/11
4/17/11
4/22/11
4/27/11
5/2/11
5/7/11
5/12/11
5/17/11
5/22/11
5/27/11
6/1/11
6/6/11
6/11/11
6/16/11
6/21/11
6/26/11

figure 10

TABLES

TABLE 1

WATER LEVEL ELEVATION SUMMARY
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Overburden			
CMW-2OB	590.79	1.09	589.70
CMW-3OB	582.13	5.45	576.68
CMW-4OB	574.28	surcharged	574.28
CMW-5OB	583.43	surcharged	583.43
CMW-6OB	571.89	0.13	571.76
CMW-7OB	611.00	5.10	605.90
CMW-8OB	616.11	3.48	612.63
CMW-9OB	571.76	2.23	569.53
CMW-1OB	576.80	5.17	571.63
CMW-11OB	572.85	3.89	568.96
CMW-12OB	594.74	15.82	578.92
OMW-1	605.28	5.71	599.57
OMW-2	605.99	2.78	603.21
OMW-3	598.63	9.91	588.72
OMW-4R	601.17	11.00	590.17
OMW-5R	591.31	5.91	585.40
OMW-6	587.62	2.18	585.44
OMW-7	592.74	7.93	584.81
OMW-8R2	594.67	8.18	586.49
OMW-9	595.52	8.39	587.13
OMW-10R	595.13	8.93	586.20
OMW-11R	597.52	6.50	591.02
OMW-12R	596.79	4.69	592.10
OMW-13R	601.50	8.83	592.67
OMW-14R	599.64	5.84	593.80
OMW-15	607.48	4.29	603.19
OMW-16R	607.62	4.57	603.05
SC-2	625.61	21.24	604.37
SC-3	638.72	39.90	598.82
SC-4	639.35	40.66	598.69
SC-5[1]	634.07	--	<604.07
SC-6	631.15	25.00	606.15
Shallow Bedrock			
CMW-1SH	576.11	11.84	564.27
CMW-2SH	590.51	18.31	572.20
CMW-3SH	581.91	32.74	549.17
CMW-4SH	574.16	7.69	566.47
CMW-5SH	583.36	6.91	576.45
CMW-6SH	572.05	9.89	562.16
CMW-7SH	610.58	10.30	600.28
CMW-8SH	615.95	5.12	610.83
CMW-9SH	571.96	12.07	559.89
CMW-11SH	573.21	8.10	565.11
CMW-12SH	597.02	25.51	571.51
Flow Zone 1			
G1U-01	617.08	12.89	604.19
G6-01	609.24	5.20	604.04
H2U-01	620.92	8.40	612.52
H5-01	617.61	21.59	596.02
I1-01	625.58	23.49	602.09

TABLE 1

WATER LEVEL ELEVATION SUMMARY
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 2			
F2U-02	599.89	23.93	575.96
F4U-02	602.32	15.56	586.76
G1-02	616.86	24.60	592.26
G6-02	608.65	16.83	591.82
H2U-02	620.88	26.14	594.74
H5-02	617.47	22.88	594.59
I1-02	625.47	34.20	591.27
J2U-02	609.66	13.43	596.23
J5U-02	606.21	9.54	596.67
J6-02	609.23	13.84	595.39
Flow Zone 4			
AFW-2U-04	593.48	15.81	577.67
D1U-04	593.77	12.21	581.56
D2U-04	590.65	10.42	580.23
E6-04	578.23	13.20	565.03
F2U-04	599.76	21.50	578.26
F4U-04	602.19	15.60	586.59
F6-04	588.06	17.91	570.15
G1U-04	616.96	24.73	592.23
G6-04	609.15	16.96	592.19
H5-04	617.40	22.98	594.42
I1-04	625.30	38.13	587.17
J2U-04	609.42	16.00	593.42
J5U-04	606.05	18.31	587.74
J6-04	609.12	27.11	582.01
Flow Zone 5			
AFW-2U-05	593.33	15.55	577.78
AGW-1U-05	591.80	5.06	586.74
D1U-05	593.51	13.40	580.11
D2U-05	590.56	10.62	579.94
E6-05	578.04	11.09	566.95
F2U-05	599.64	21.19	578.45
F4U-05	602.06	16.66	585.40
F6-05	587.85	17.79	570.06
G6-05	609.13	18.90	590.23
H2M-05	621.59	26.85	594.74
H5-05	617.31	24.31	593.00
I1-05	625.25	70.84	554.41
J2U-05	609.30	29.62	579.68
J5U-05	605.87	26.29	579.58
J6-05	609.02	28.08	580.94
PMW-1U-05	598.00	20.59	577.41

TABLE 1

WATER LEVEL ELEVATION SUMMARY
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 6			
ABP-7-06	575.78	Dry	Dry
AFW-1U-06	571.83	14.59	557.24
AFW-2U-06	593.22	48.08	545.14
AGW-1U-06	591.66	37.60	554.06
B2U-06	589.29	35.11	554.18
C3-06	585.78	37.47	548.31
D1U-06	593.25	45.96	547.29
D2U-06	590.38	42.87	547.51
E6-06	577.99	4.43	573.56
F2M-06	599.06	37.09	561.97
F4M-06	602.05	50.98	551.07
F6-06	587.84	14.24	573.60
G1M-06	616.75	42.85	573.90
G6-06	609.09	33.92	575.17
H2M-06	621.42	57.57	563.85
H5-06	617.17	28.88	588.29
I1-06	625.15	73.12	552.03
J2M-06	608.94	54.83	554.11
J5M-06	606.22	59.43	546.79
J6-06	608.93	50.09	558.84
PMW-1U-06	597.92	49.86	548.06
Flow Zone 7			
ABP-1-07	576.44	28.90	547.54
ABP-7-07	575.73	41.41	534.32
AFW-1M-07	571.41	Dry	Dry
AFW-2M-07	593.44	66.82	526.62
AGW-1M-07	592.91	40.34	552.57
B2M-07	589.52	50.08	539.44
C3-07	585.62	42.51	543.11
D1M-07	594.15	61.79	532.36
D2M-07	590.77	65.91	524.86
E6-07	577.91	23.41	554.50
F2M-07	598.91	80.20	518.71
F4M-07	601.91	71.32	530.59
F6-07	587.68	20.19	567.49
G1M-07	616.68	32.51	584.17
G6-07	609.06	24.51	584.55
H5-07	617.05	60.94	556.11
I1-07	625.14	74.86	550.28
J5M-07	606.07	52.91	553.16
J6-07	608.85	56.22	552.63
PMW-1M-07	598.50	65.33	533.17

TABLE 1

WATER LEVEL ELEVATION SUMMARY
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 9			
ABP-1-09	575.49	41.22	534.27
ABP-7-09	575.67	41.85	533.82
AFW-1M-09	571.12	43.02	528.10
AFW-2M-09	593.32	72.09	521.23
AGW-1M-09	592.75	40.41	552.34
B2M-09	589.34	68.73	520.61
C3-09	585.00	43.93	541.07
D1M-09	594.02	75.59	518.43
D2M-09	590.66	72.28	518.38
E6-09	577.82	23.64	554.18
F2M-09	598.71	80.48	518.23
F4M-09	601.79	83.75	518.04
F6-09	587.53	3.43	584.10
G1M-09	616.58	36.97	579.61
G6-09	608.98	23.60	585.38
H2M-09	621.32	70.89	550.43
H5-09	616.93	66.80	550.13
I1-09	624.91	62.85	562.06
J2M-09	608.77	56.11	552.66
J5M-09	605.82	52.83	552.99
J6-09	608.76	42.44	566.32
PMW-1M-09	598.34	79.86	518.48
Flow Zone 11			
AFW-1L-11	572.10	66.09	506.01
AFW-2L-11	593.43	96.43	497.00
AGW-1L-11	592.71	19.71	573.00
B2L-11	589.65	91.52	498.13
D1L-11	593.80	89.09	504.71
D2L-11	590.21	70.17	520.04
E6-11	577.72	43.09	534.63
F2L-11	598.94	40.59	558.35
F4L-11	602.22	33.90	568.32
F6-11	587.40	58.09	529.31
G1L-11	616.84	53.33	563.51
G6-11	608.89	41.23	567.66
H2L-11	620.73	61.89	558.84
H5-11	616.81	67.23	549.58
I1-11	624.75	76.44	548.31
J5L-11	607.20	60.90	546.30
J6-11	608.68	24.25	584.43
PMW-1L-11	598.84	89.49	509.35

Notes:
[1] - Unable to get past 30 feet at time of event.
Dry - No water present at the time of measurement.
ft AMSL - Feet Above Mean Sea Level.

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

	Effluent			
Date	*Phenol (mg/L)*	*pH (su)*	*Flow (gal)*	*Comments*
04/01/11	-	7.00	99,000	
04/04/11	-	7.10	287,000	
04/05/11	0.0073 J	7.10	284,000	
04/06/11	-	7.00	154,000	
04/07/11	-	7.00	377,000	
04/08/11	-	7.00	69,000	
04/11/11	-	6.40	349,000	
04/12/11	-	6.70	138,000	
04/13/11	0.018		0	
04/14/11	-	6.90	308,000	
04/15/11	-	6.60	157,000	
04/18/11	-	6.60	374,000	
04/19/11	-	6.00	337,000	
04/20/11	0.010 U	6.00	104,000	
04/21/11	-	6.90	133,000	
04/23/11	-	6.80	160,000	
04/24/11	-	6.80	353,000	
04/25/11	-	6.50	126,000	
04/26/11	-	6.90	123,000	
04/27/11	0.012	7.00	368,000	
04/28/11	-	7.00	337,000	
04/29/11	-	7.00	62,000	

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

	Effluent			
Date	*Phenol (mg/L)*	*pH (su)*	*Flow (gal)*	*Comments*
05/01/11	-	7.00	234,000	
05/02/11	-	6.90	379,000	
05/03/11	-	6.80	113,000	
05/04/11	0.051	6.30	339,000	
05/05/11	-	6.90	101,000	
05/06/11	-	6.80	118,000	
05/08/11	-	6.90	344,000	
05/09/11	-	6.90	374,000	
05/10/11	-	6.90	95,000	
05/11/11	0.016	6.90	100,000	
05/12/11	-	6.60	252,000	
05/13/11	-	6.80	28,000	
05/16/11	-	6.90	328,000	
05/17/11	-	6.90	123,000	
05/18/11	0.029	6.70	125,000	
05/19/11	-	6.80	422,000	
05/20/11	-	6.80	151,000	
05/22/11	-	6.90	259,000	
05/23/11	-	6.80	44,000	
05/24/11	-	7.00	337,000	
05/25/11	0.010 U	7.00	404,000	
05/26/11	-	7.00	92,000	
05/27/11	-	6.70	50,000	
05/28/11	-	6.90	451,000	
05/31/11	-	6.90	411,000	

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

	Effluent			
Date	*Phenol (mg/L)*	*pH (su)*	*Flow (gal)*	*Comments*
06/01/11	0.010	7.00	153,000	
06/02/11	-	7.00	369,000	
06/03/11	-	7.00	70,000	
06/06/11	-	7.10	462,000	
06/07/11	0.014	7.00	103,000	
06/08/11	-	7.10	104,000	
06/09/11	-	7.00	134,000	
06/10/11	-	7.20	78,000	
06/13/11	-	7.00	119,000	
06/14/11	-	7.00	84,000	
06/15/11	0.010	7.00	147,000	
06/16/11	-	6.90	139,000	
06/17/11	-	6.90	70,000	
06/20/11	-	6.90	145,000	
06/21/11	-	6.90	142,000	
06/22/11	0.46	6.80	112,000	
06/23/11	-	7.00	111,000	
06/24/11	-	7.00	80,000	
06/27/11	-	7.10	146,000	
06/28/11	-	6.90	137,000	
06/29/11	0.010	6.90	127,000	
06/30/11	-	6.90	427,648	

Notes:

gal	Gallons.
mg/L	Milligram per liter.
su	Standard unit.
U	Non-detect at associated value.
-	Not available.

TABLE 3

ANALYTICAL RESULTS SUMMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Effluent

Parameter	*Units*	*04/05/11*	*04/13/11*	*04/20/11*	*04/27/11*	*05/04/11*	*05/11/11*	*05/18/11*	*05/25/11*
Volatiles									
1,1,1-Trichloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,1-Dichloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,1-Dichloroethene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,2-Dichloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,2-Dichloropropane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
2-Chlorotoluene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
3-Chlorotoluene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
4-Chlorotoluene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Benzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Bromodichloromethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Bromoform	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Carbon disulfide	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	0.45 J
Carbon tetrachloride	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Chlorobenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Chloroethane	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
cis-1,2-Dichloroethene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Ethylbenzene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Methylene chloride	µg/L	10 U	8.0 J	12 U	25 U	20 U	12 U	25 UJ	1.0 U
m-Monochlorobenzotrifluoride	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
o-Monochlorobenzotrifluoride	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
p-Monochlorobenzotrifluoride	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Styrene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Tetrachloroethene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Toluene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Trichloroethene	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Vinyl acetate	µg/L	10 U	10 U	12 U	25 U	20 U	12 U	25 UJ	1.0 U
Vinyl chloride	µg/L	250	180	290	580	260	340	430 J	410
Xylenes (total)	µg/L	30 U	30 U	38 U	75 U	60 U	38 U	75 UJ	3.0 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

Effluent

Parameter	*Units*	*06/01/11*	*06/07/11*	*06/15/11*	*06/22/11*	*06/29/11*
1,1,1-Trichloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
1,1,2,2-Tetrachloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
1,1,2-Trichloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
1,1-Dichloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
1,1-Dichloroethene	µg/L	25 U	25 U	20 U	25 U	25 U
1,2,4-Trichlorobenzene	µg/L	25 U	25 U	20 U	25 U	25 U
1,2-Dichlorobenzene	µg/L	25 U	25 U	20 U	25 U	25 U
1,2-Dichloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
1,2-Dichloropropane	µg/L	25 U	25 U	20 U	25 U	25 U
1,3-Dichlorobenzene	µg/L	25 U	25 U	20 U	25 U	25 U
1,4-Dichlorobenzene	µg/L	25 U	25 U	20 U	25 U	25 U
2-Chlorotoluene	µg/L	25 U	25 U	20 U	25 U	25 U
3-Chlorotoluene	µg/L	25 U	25 U	20 U	25 U	25 U
4-Chlorotoluene	µg/L	25 U	25 U	20 U	25 U	25 U
Benzene	µg/L	25 U	25 U	20 U	25 U	25 U
Bromodichloromethane	µg/L	25 U	25 U	20 U	25 U	25 U
Bromoform	µg/L	25 U	25 U	20 U	25 U	25 U
Bromomethane (Methyl Bromide)	µg/L	25 U	25 U	20 U	25 U	25 U
Carbon disulfide	µg/L	25 U	25 U	20 U	25 U	25 U
Carbon tetrachloride	µg/L	25 U	25 U	20 U	25 U	25 U
Chlorobenzene	µg/L	25 U	25 U	20 U	25 U	25 U
Chloroethane	µg/L	25 U	25 U	20 U	25 U	25 U
Chloroform (Trichloromethane)	µg/L	25 U	25 U	20 U	25 U	25 U
Chloromethane (Methyl Chloride)	µg/L	25 U	25 U	20 U	25 U	25 U
cis-1,2-Dichloroethene	µg/L	25 U	25 U	20 U	25 U	25 U
cis-1,3-Dichloropropene	µg/L	25 U	25 U	20 U	25 U	25 U
Dichlorodifluoromethane (CFC-12)	µg/L	25 U	25 U	20 U	25 U	25 U
Ethylbenzene	µg/L	25 U	25 U	20 U	25 U	25 U
Methylene chloride	µg/L	25 U	25 U	20 U	25 U	25 U
m-Monochlorobenzotrifluoride	µg/L	25 U	25 U	20 U	25 U	25 U
o-Monochlorobenzotrifluoride	µg/L	25 U	25 U	20 U	25 U	25 U
p-Monochlorobenzotrifluoride	µg/L	25 U	25 U	20 U	25 U	25 U
Styrene	µg/L	25 U	25 U	20 U	25 U	25 U
Tetrachloroethene	µg/L	25 U	25 U	20 U	25 U	25 U
Toluene	µg/L	25 U	25 U	20 U	25 U	25 U
trans-1,2-Dichloroethene	µg/L	25 U	25 U	20 U	25 U	25 U
trans-1,3-Dichloropropene	µg/L	25 U	25 U	20 U	25 U	25 U
Trichloroethene	µg/L	25 U	25 U	20 U	25 U	25 U
Trichlorofluoromethane (CFC-11)	µg/L	25 U	25 U	20 U	25 U	25 U
Vinyl acetate	µg/L	25 U	25 U	20 U	25 U	25 U
Vinyl chloride	µg/L	440	570	480	630	520
Xylenes (total)	µg/L	75 U	75 U	60 U	75 U	75 U

Notes:

-	Not available/not applicable.
J	Estimated at associated value.
U	Non-detect at associated value.
µg/L	Microgram per liter.

TABLE 4

ANALYTICAL RESULTS SUMMARY
QUARTERLY SAMPLING - LEACHATE TREATMENT SYSTEM
SECOND QUARTER - 2011
HYDE PARK RRT PROGRAM

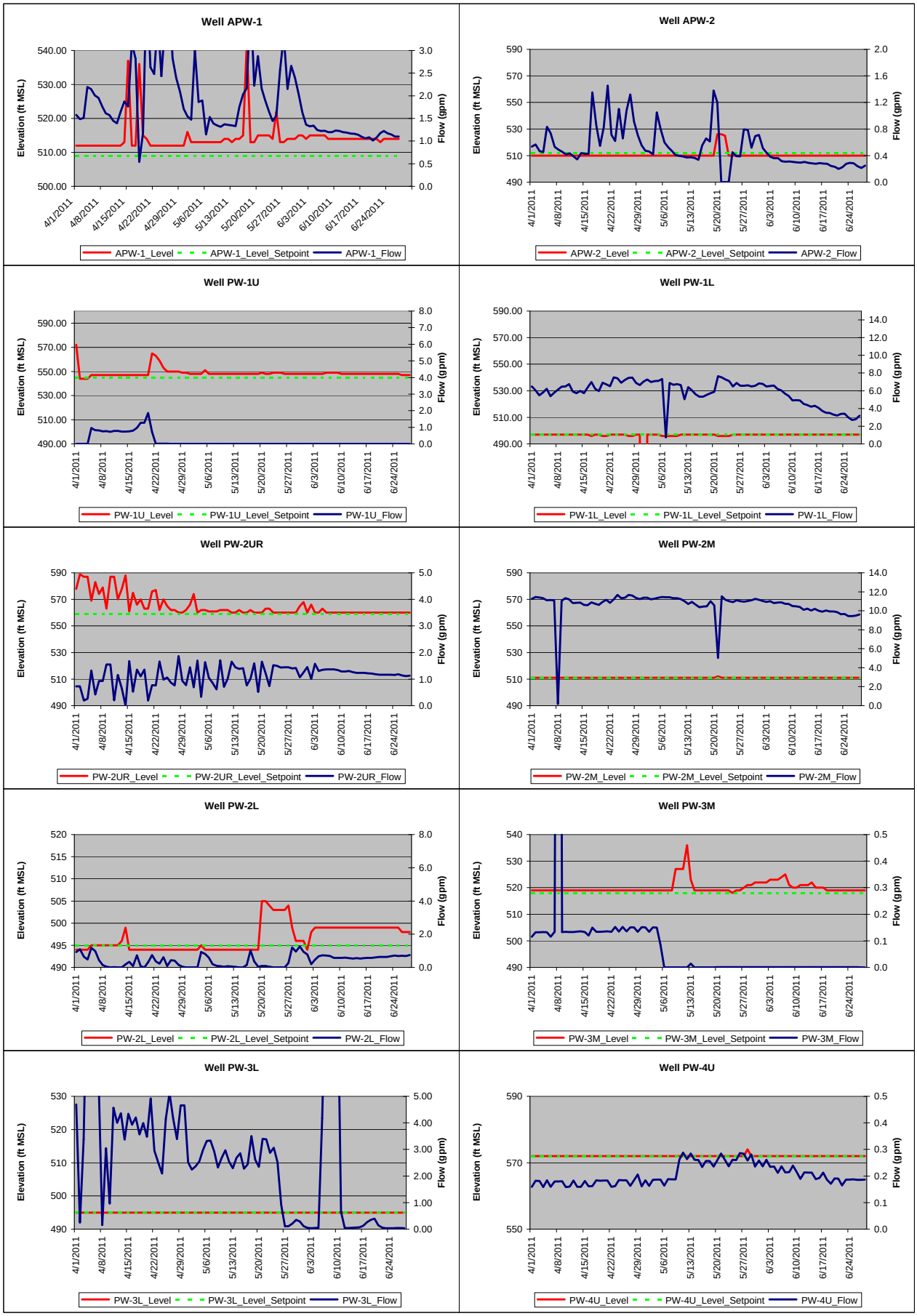
Effluent

	Sample ID:	*HP6811 EFF*
	Sample Date:	*06/08/11*
Parameter	***Units***	
Phosphorus, Total	mg/L	0.48
Vinyl chloride	µg/L	540

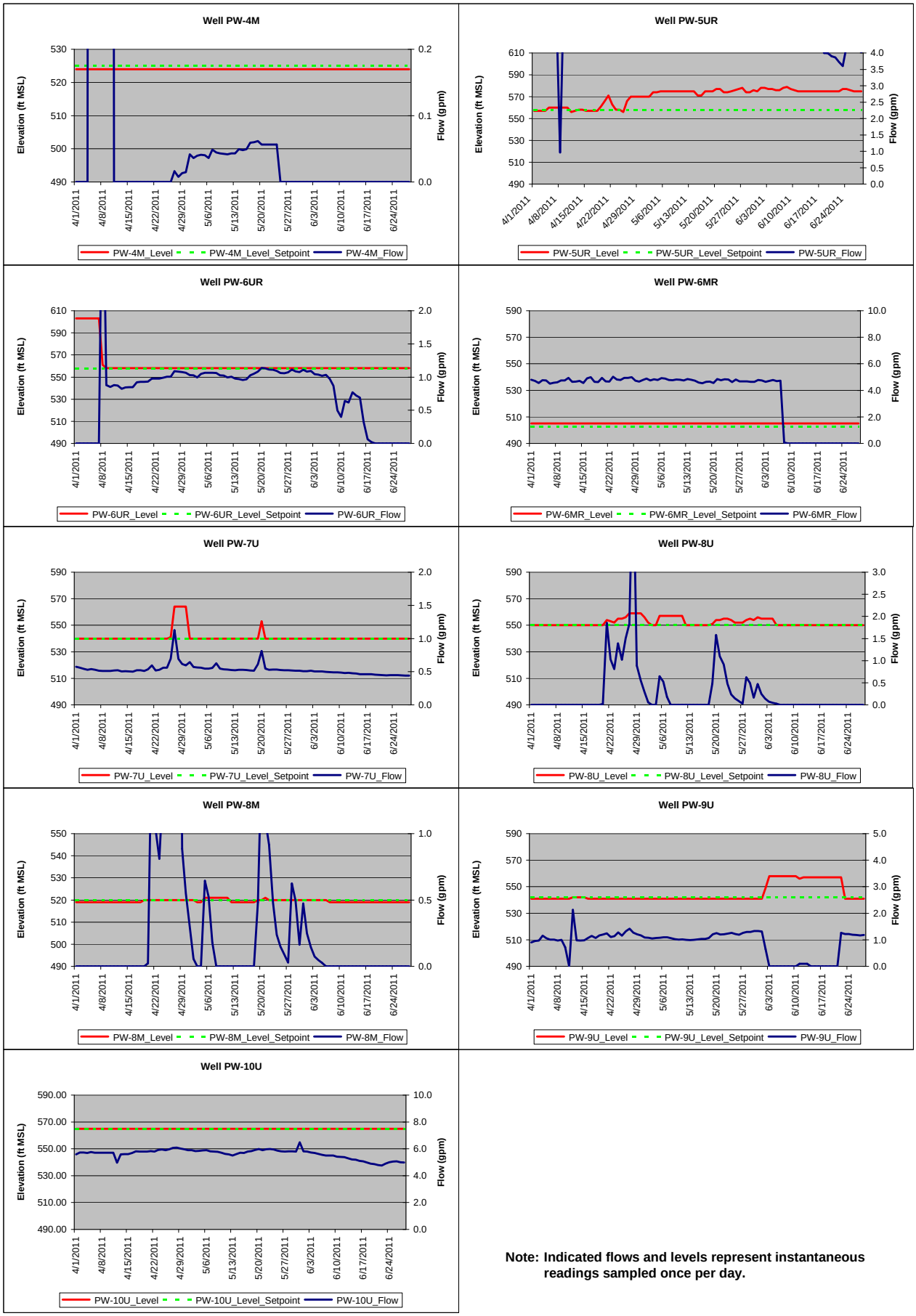
Notes:
mg/L Milligrams per liter.
µg/L Micrograms per liter.

ATTACHMENT 1

ATTACHMENT 1
2ND QUARTER 2011 - PUMPING LEVELS AND FLOWS
HYDE PARK



ATTACHMENT 1
2ND QUARTER 2011 - PUMPING LEVELS AND FLOWS
HYDE PARK



Note: Indicated flows and levels represent instantaneous readings sampled once per day.