Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Joe Branch
Project Manager
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7601 Old Channel Trail
Montague, MI 49437
Fax (231) 894-4033

April 30, 2013

Reference No. 001069

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

Mr. Brian P. Sadowski
NYSDEC
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Ms. Sosa and Mr. Sadowski:

Re: **Quarterly Operations Report – First Quarter 2013**
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 January 1, 2013 through March 31, 2013. A total of 11 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 disposal. The potentiometric contours are consistent with previous interpretations. Flow Zones 6, 7, and 9 have dewatered areas between the landfill and the gorge face. The current data continue to support the interpretation of effective hydraulic containment and inward gradients.

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

The pumping wells are operational and functioning as designed. However, the following pumping wells have minor operational and set point issues that are currently being investigated or were resolved during the First Quarter 2013. An evaluation of the pumping wells with continuing issues will continue to be conducted during the Second Quarter 2013.

APW-2: The pump and motor were replaced on March 15, 2013 once the ground hardened sufficiently to support the crane necessary to pull the pump and motor, and the well is now operating at set point. GSH is currently evaluating the installation of a gravel access road to provide crane access year round.

PW-2UR: The pump has experienced an intermittent instrumentation fault, which has resulted in periodic levels above set point. The pump in this well cycles on and off due to low yield. When the water level is lowered to 2 feet below set point, the pump shuts off. When the water level increases to 2 feet above set point, the pump turns back on. What appears to be happening is the pump will turn off at 2 feet below set point but will go into low level alarm periodically, even though the water level is increasing. Once in alarm, the pump will not automatically turn back on. It has to be restarted by the operator. If the alarm occurred after hours, the pump would not get turned back on until first thing the next morning. Significant troubleshooting was conducted in the first quarter. All wiring and connections were checked and tested. No faults or connectivity issues were found. The level transmitter has been pulled, inspected, and recalibrated several times and is reading correctly. The cause of the fault cannot be determined. The faults have become less frequent and since the beginning of April, have not occurred. The level transmitter will be replaced should the fault reoccur.

PW-5UR: This purge well is located on the Tam Ceramics property located to the south of the Site. Water level and pumping issues due to infiltration into the well and well chamber from an outside source and the buildup of a white colored sludge on the pump continue to persist. The white color of the sludge is not consistent with the color of soil or bedrock at the well. The white colored sludge builds up on the pump, which reduces the pumping capacity and leads to the pump burning out prematurely. Periodic NAPL buildup on the pump also has contributed to pump burnout. This issue has been ongoing for years but the frequency at which the pump clogs appears to be increasing. The pump and motor were replaced five times in 2012 and three times in the first quarter of 2013. The well has been redeveloped in the past but the redevelopment did little to stop the pump from being clogged. Discussions with pump suppliers have not resulted in the identification of a more suitable submersible pump. The white sludge in the well will be analyzed in an effort to identify the source, and the water infiltration will be discussed with Tam Ceramics. In the interim, the pump will continue to be replaced upon burnout.

PW-7U: The pump and motor were replaced on March 21, 2013 once the seasonably soft ground hardened sufficiently to support the crane necessary to pull the pump and the motor, and the well is now operating at set point. GSH is currently evaluating the installation of a gravel access road to provide crane access year round.

Wet Well A: The flow transmitter stopped working on January 3, 2013; however, normal pumping continued. A replacement was ordered when the issue was identified, and a new flow transmitter was installed on February 27, 2013.

PW-1U: As indicated in the Fourth Quarter 2012 Report, significant investigation and corrective measures were implemented to address low flow rates/high water levels in this well in October and November 2012. Since the well was redeveloped and resumed pumping on November 9, 2012, the

well was functioning as designed at set point, with a stable flow. However, in February 2013, the flow from PW-1U began to decrease again resulting in an increase in water level. The pump was removed on March 20, 2013, and was discovered to be caked with a "muddy buildup" once again. The pump and motor for PW-1U was replaced on March 21, 2013, and the well is currently operating at set point with a stable flow. The condition of PW-1U with consideration to handling the infiltration of solids will be evaluated, and maintenance will be performed as required until a solution has been determined.

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.

Joe Branch
Project Manager
231-670-6809 Cell

JB/adh/10
Encl.

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

*Includes one copy on CD

FIGURES

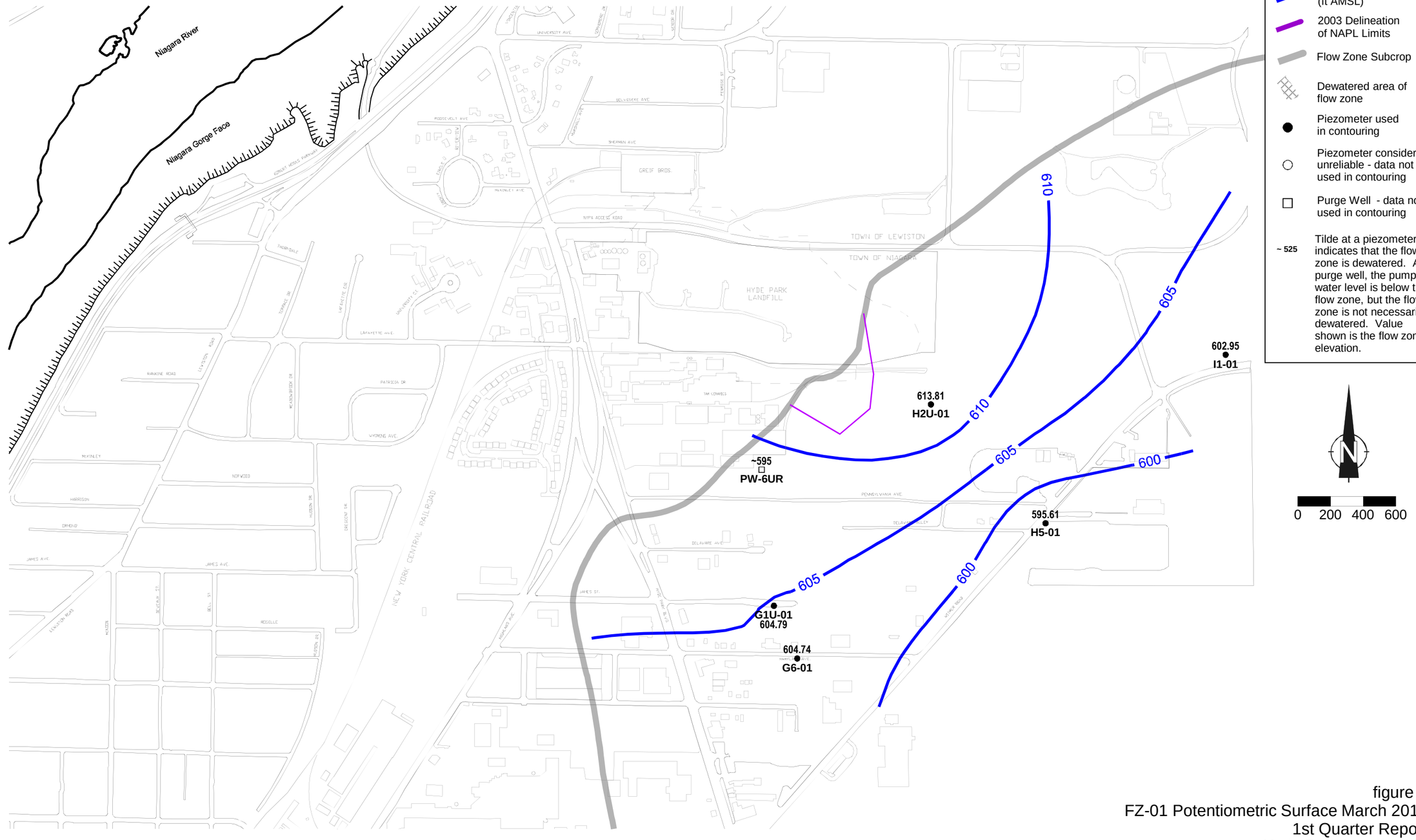
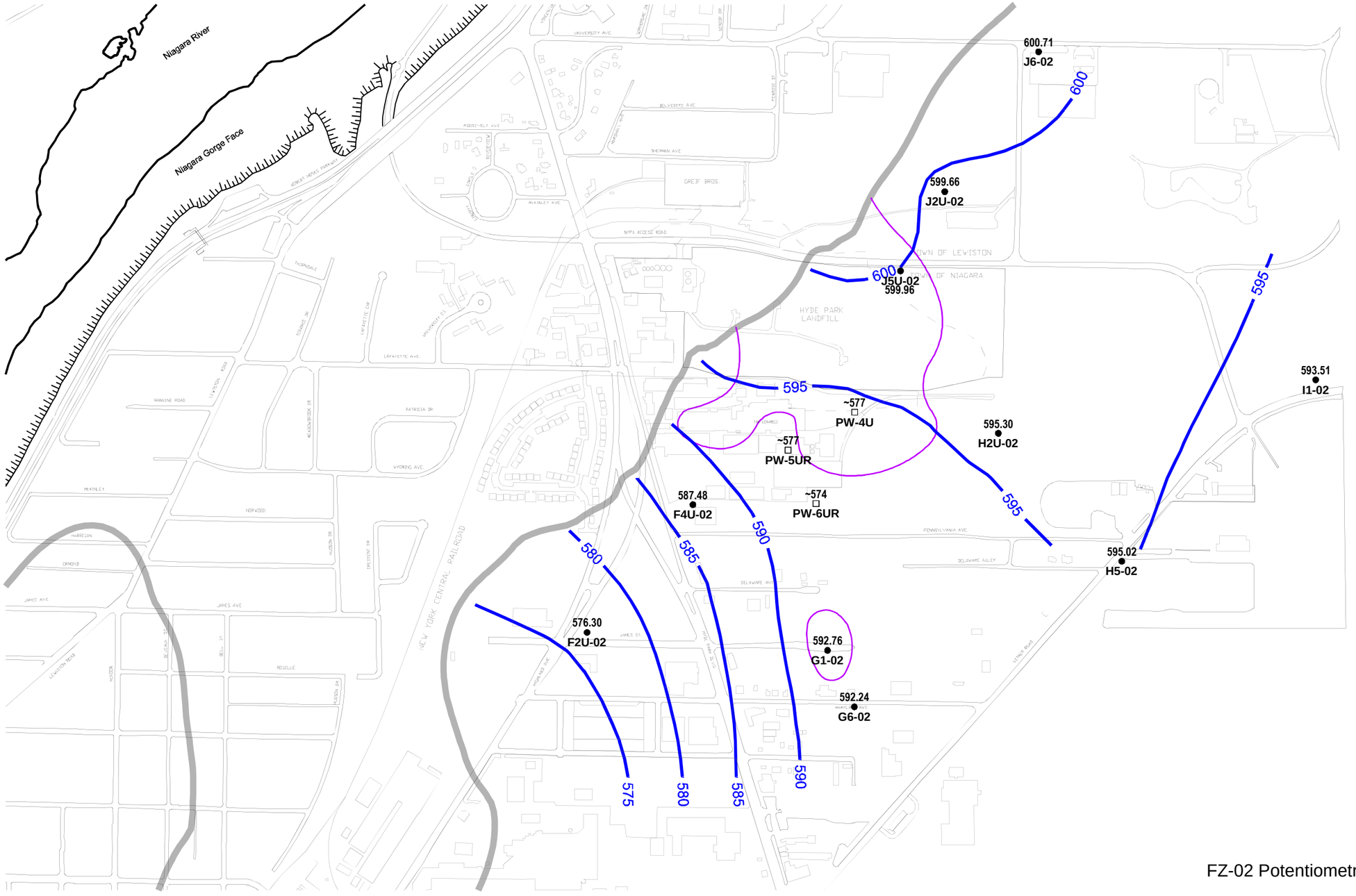


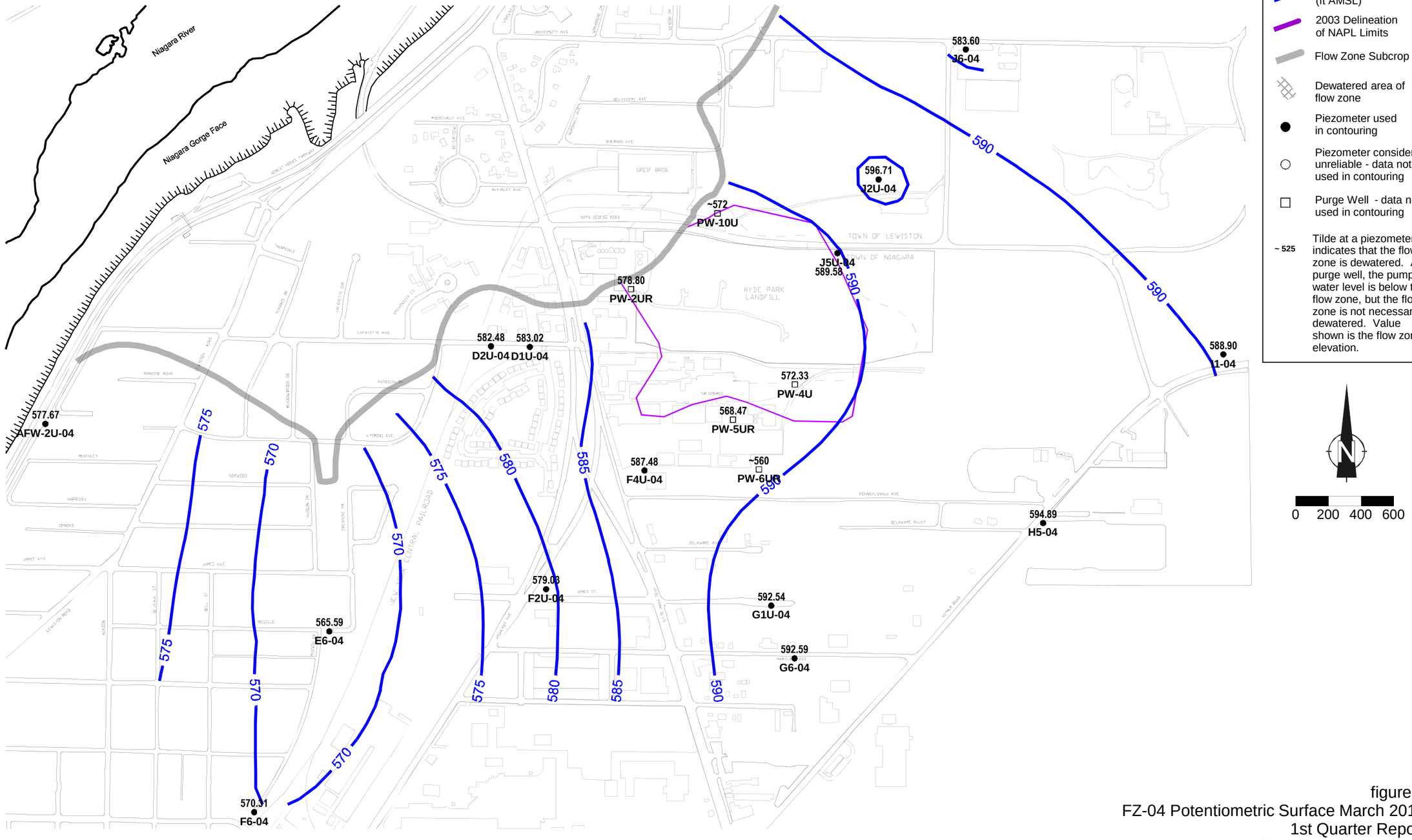
figure 1
FZ-01 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

figure 2
FZ-02 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

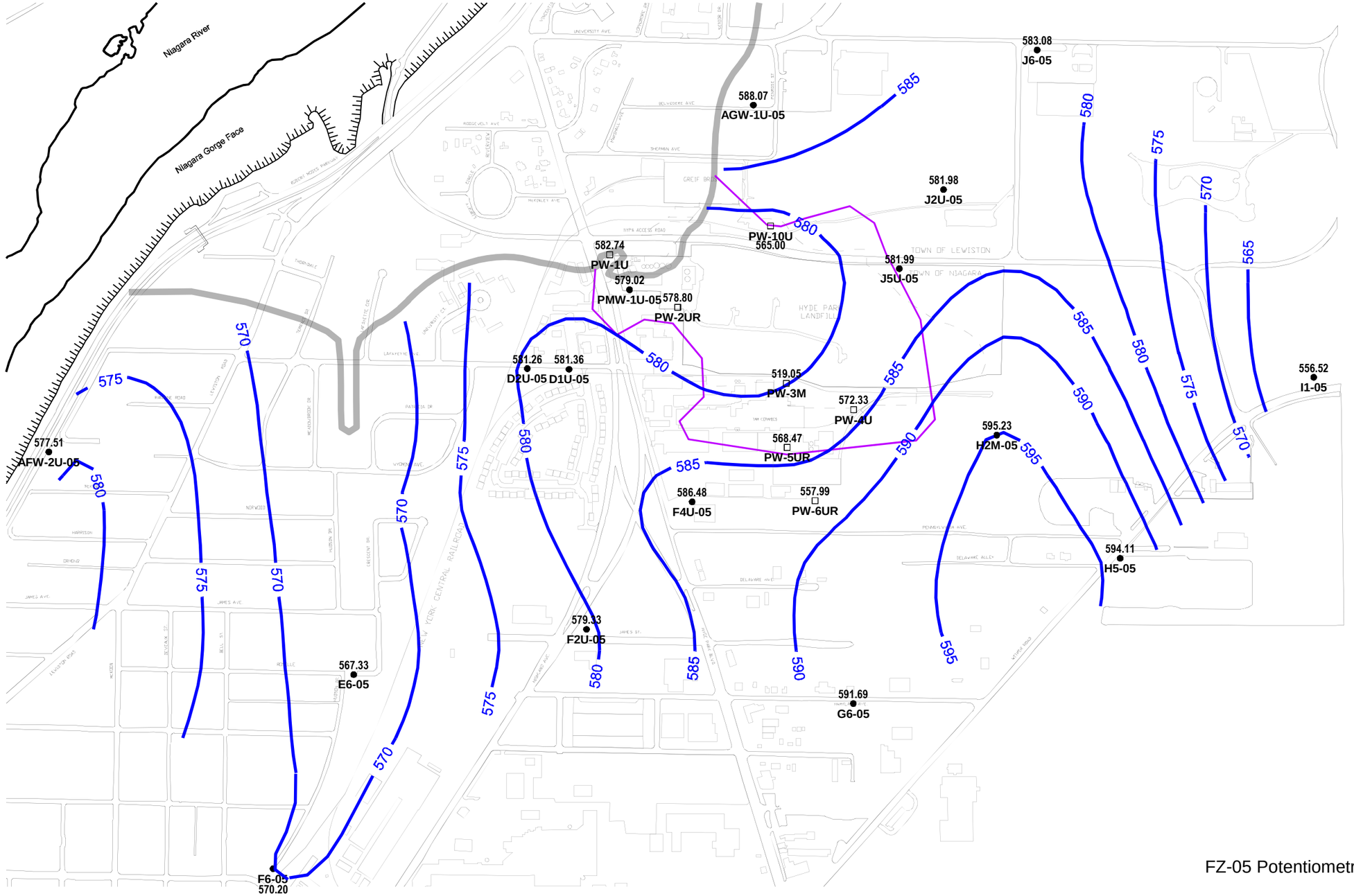


Legend

- 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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

figure 3
FZ-04 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

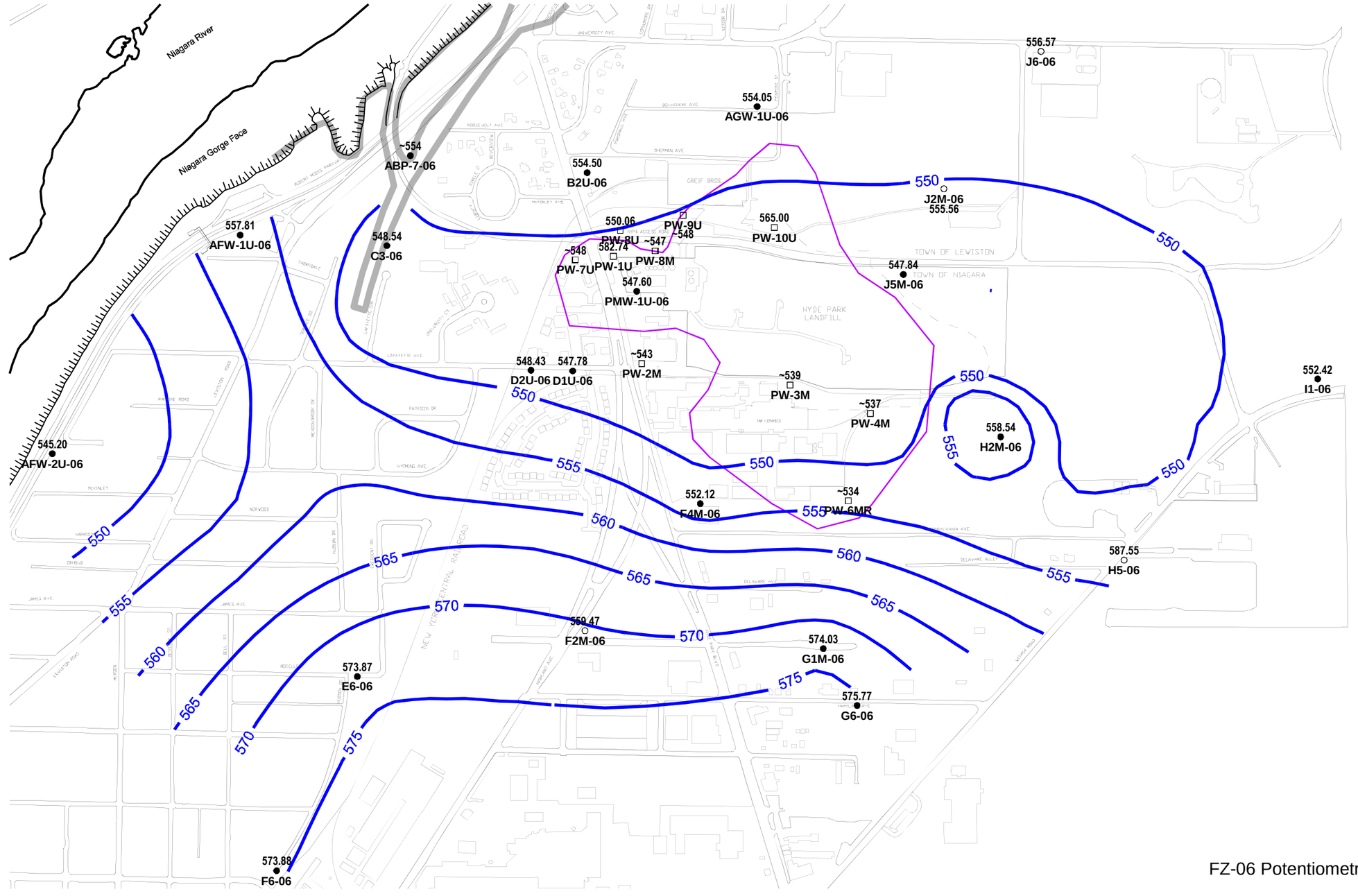
Glenn Springs Holdings, Inc.



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

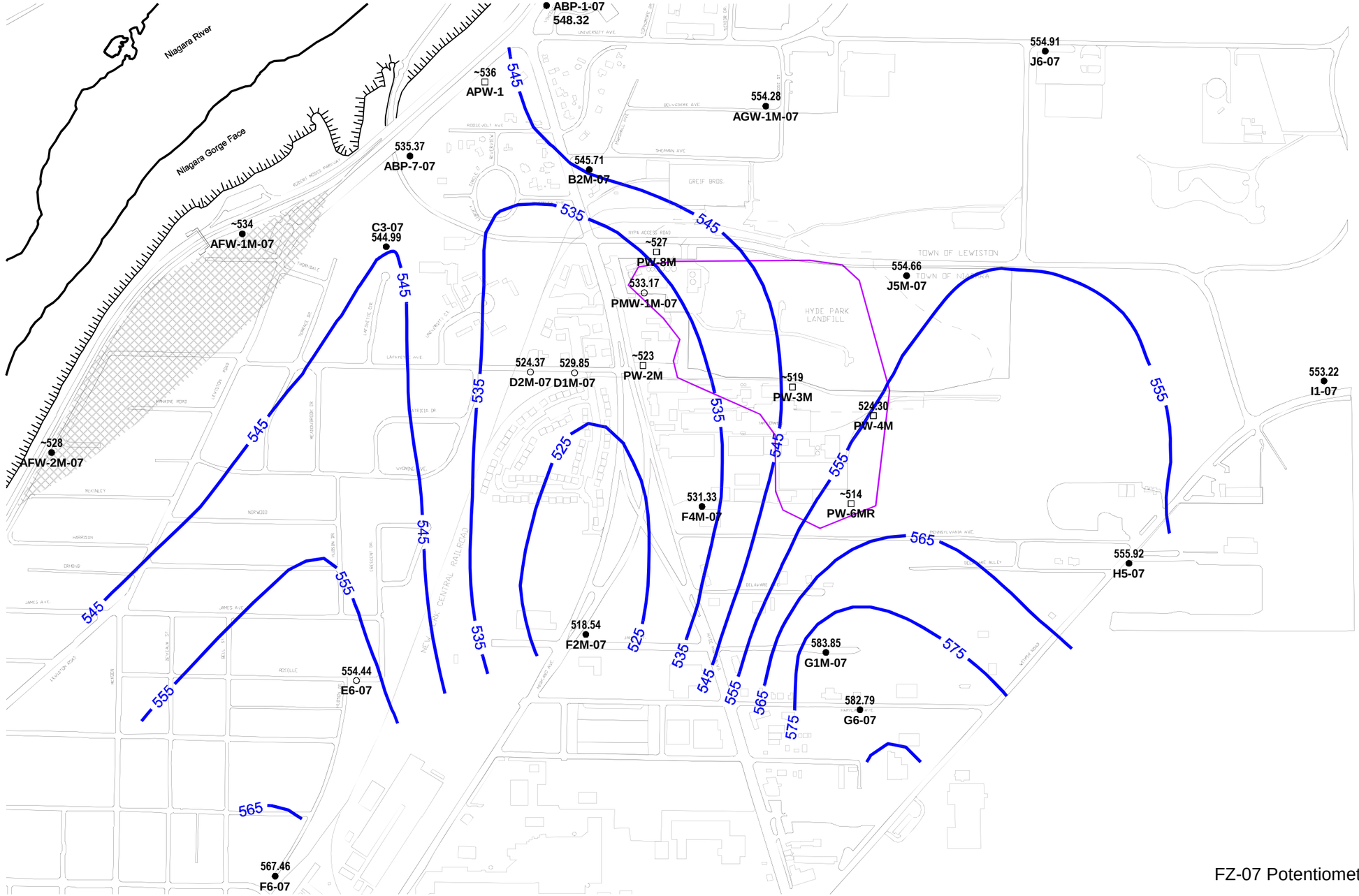
figure 4
FZ-05 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

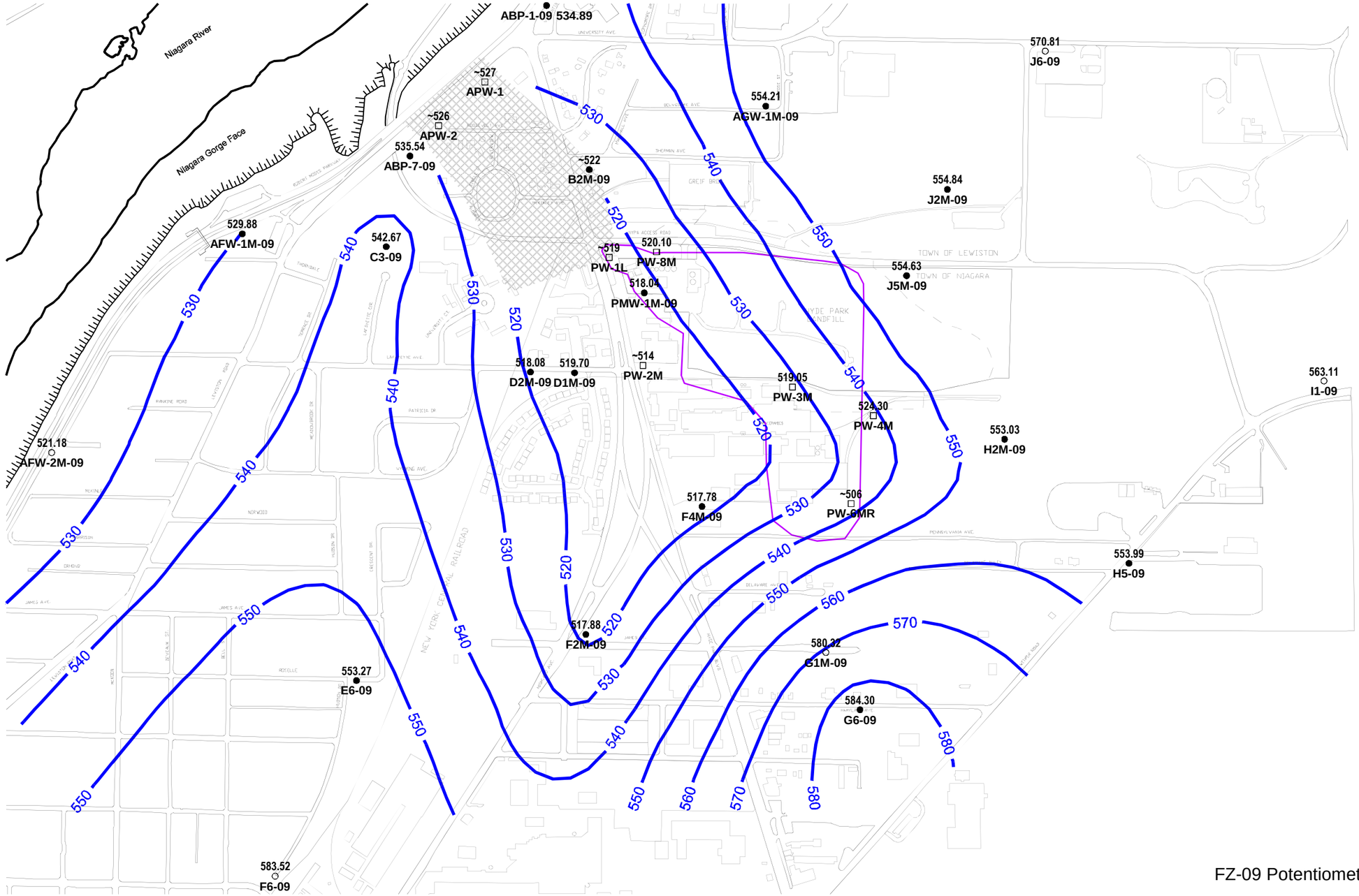
figure 5
FZ-06 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

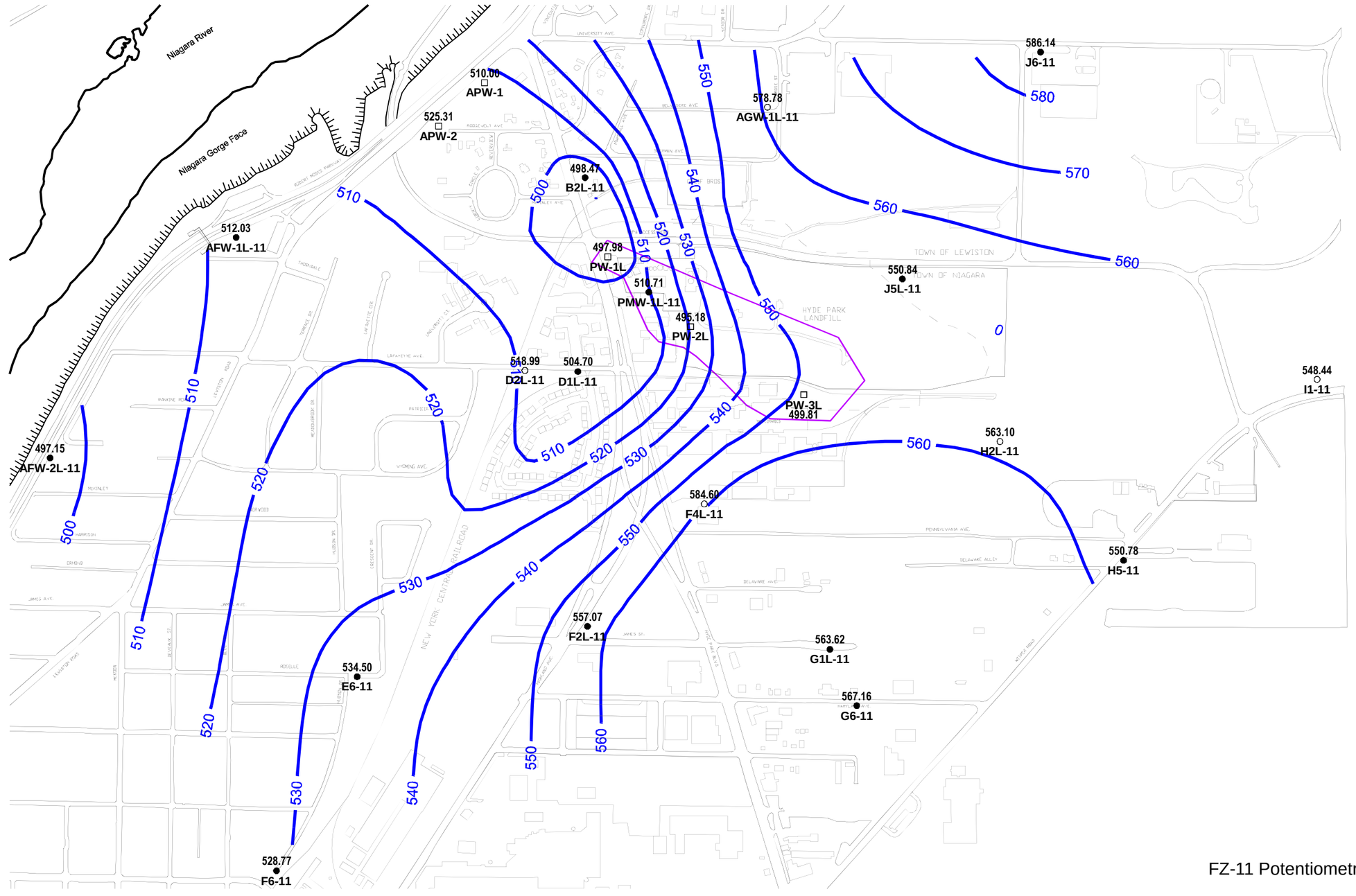
figure 6
FZ-07 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

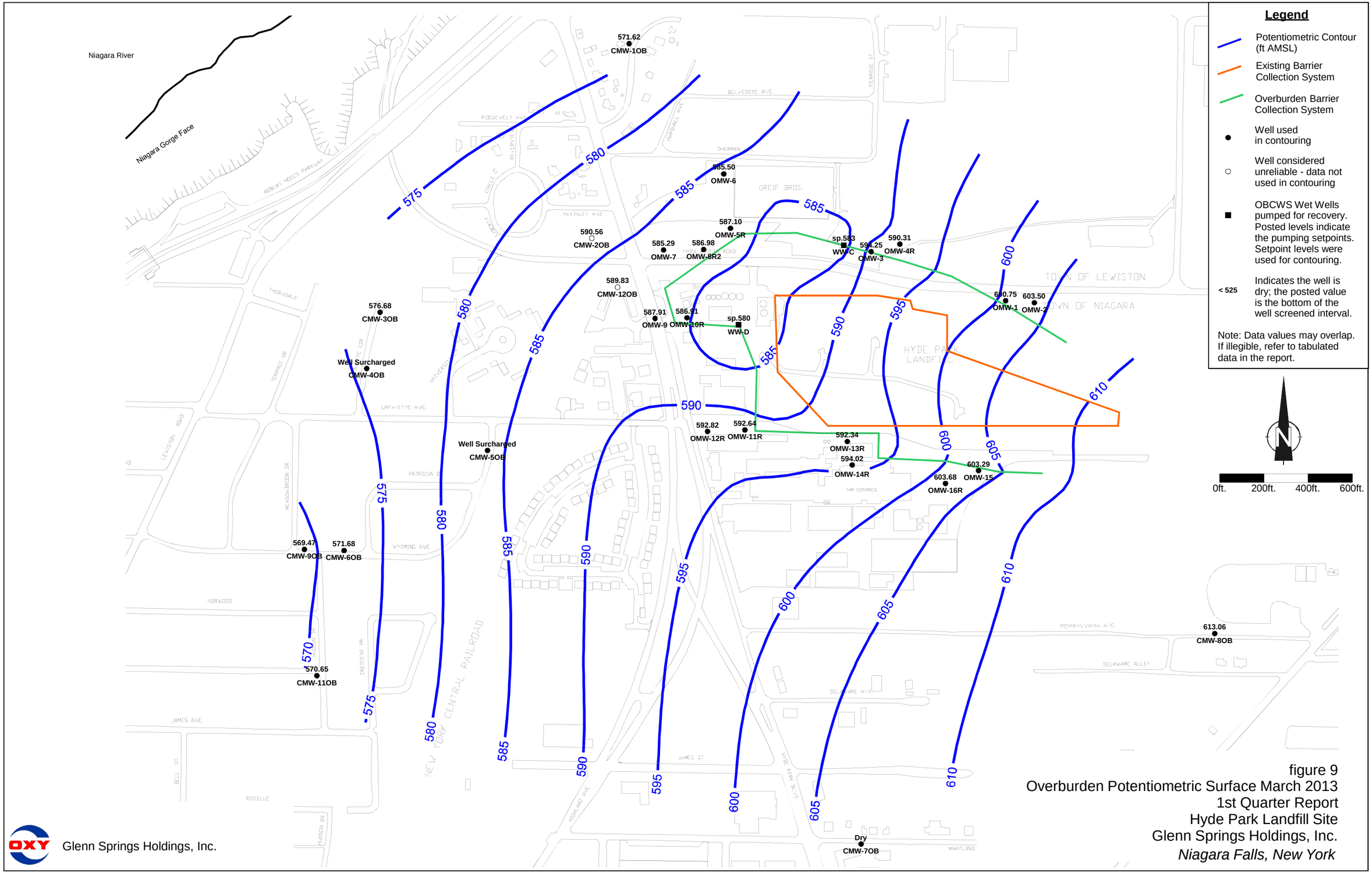
figure 7
FZ-09 Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 at a piezometer indicates that the flow zone is dewatered. At a purge well, the pumping water level is below the flow zone, but the flow zone is not necessarily dewatered. Value shown is the flow zone elevation.

figure 8
FZ-11 Potentiometric Surface March 2013
1st 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.

N

0ft. 200ft. 400ft. 600ft.

figure 9
Overburden Potentiometric Surface March 2013
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.

PMW-1M-09 1st Quarter 2013- Hourly Water Level Elevation

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

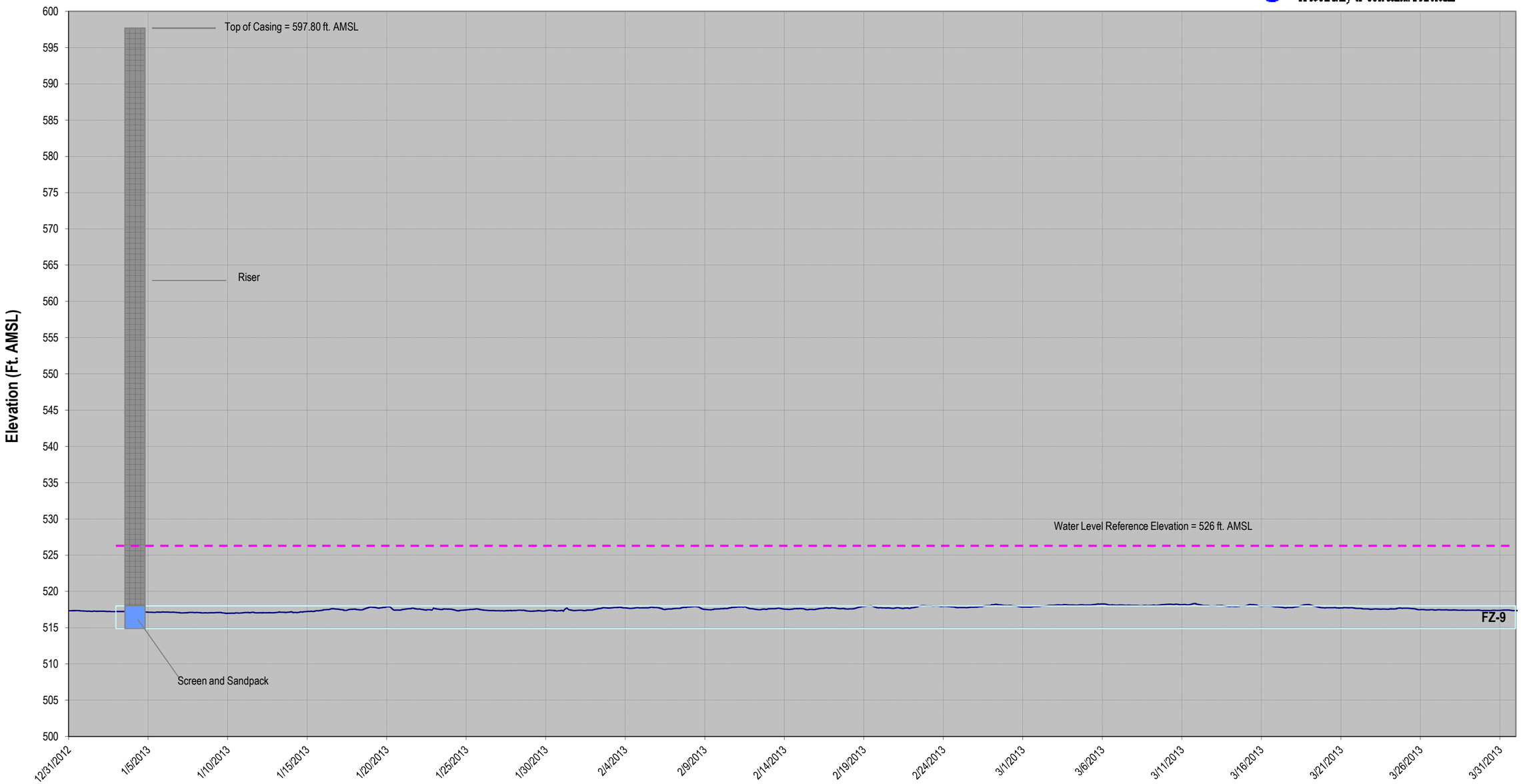


figure 10

TABLES

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Overburden			
CMW-2OB	590.79	0.23	590.56
CMW-3OB	582.13	5.45	576.68
CMW-4OB	574.28	Surcharged	Surcharged
CMW-5OB	583.43	Surcharged	Surcharged
CMW-6OB	571.89	0.21	571.68
CMW-7OB	611.00	Dry	Dry
CMW-8OB	616.11	3.05	613.06
CMW-9OB	571.76	2.29	569.47
CMW-1OB	576.80	5.18	571.62
CMW-11OB	572.85	2.20	570.65
CMW-12OB	594.74	4.91	589.83
OMW-1	605.28	4.53	600.75
OMW-2	605.99	2.49	603.50
OMW-3	598.63	4.38	594.25
OMW-4R	601.17	10.86	590.31
OMW-5R	591.31	4.21	587.10
OMW-6	587.62	2.12	585.50
OMW-7	592.74	7.45	585.29
OMW-8R2	594.67	7.69	586.98
OMW-9	595.52	7.61	587.91
OMW-10R	595.13	8.22	586.91
OMW-11R	597.52	4.88	592.64
OMW-12R	596.79	3.97	592.82
OMW-13R	601.50	9.16	592.34
OMW-14R	599.64	5.62	594.02
OMW-15	607.48	4.19	603.29
OMW-16R	607.62	3.94	603.68
SC-2	625.61	22.34	603.27
SC-3	638.72	40.18	598.54
SC-4	639.35	42.18	597.17
SC-5	634.07	>28.15	<605.92
SC-6	631.15	17.55	613.60
Shallow Bedrock			
CMW-1SH	576.11	11.53	564.58
CMW-2SH	590.51	18.06	572.45
CMW-3SH	581.91	32.42	549.49
CMW-4SH	574.16	7.50	566.66
CMW-5SH	583.36	5.72	577.64
CMW-6SH	572.05	9.16	562.89
CMW-7SH	610.58	9.23	601.35
CMW-8SH	615.95	4.01	611.94
CMW-9SH	571.96	11.82	560.14
CMW-11SH	573.21	8.09	565.12
CMW-12SH	597.02	25.59	571.43

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 1			
G1U-01	617.08	12.29	604.79
G6-01	609.24	4.50	604.74
H2U-01	620.92	7.11	613.81
H5-01	617.61	22.00	595.61
I1-01	625.58	22.63	602.95
Flow Zone 2			
F2U-02	599.89	23.59	576.30
F4U-02	602.32	14.84	587.48
G1-02	616.86	24.10	592.76
G6-02	608.65	16.41	592.24
H2U-02	620.88	25.58	595.30
H5-02	617.47	22.45	595.02
I1-02	625.47	31.96	593.51
J2U-02	609.66	10.00	599.66
J5U-02	606.21	6.25	599.96
J6-02	609.23	8.52	600.71
Flow Zone 4			
AFW-2U-04	593.48	15.81	577.67
D1U-04	593.77	10.75	583.02
D2U-04	590.65	8.17	582.48
E6-04	578.23	12.64	565.59
F2U-04	599.76	20.73	579.03
F4U-04	602.19	14.71	587.48
F6-04	588.06	17.75	570.31
G1U-04	616.96	24.42	592.54
G6-04	609.15	16.56	592.59
H5-04	617.40	22.51	594.89
I1-04	625.30	36.40	588.90
J2U-04	609.42	12.71	596.71
J5U-04	606.05	16.47	589.58
J6-04	609.12	25.52	583.60

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 5			
AFW-2U-05	593.33	15.82	577.51
AGW-1U-05	591.80	3.73	588.07
D1U-05	593.51	12.15	581.36
D2U-05	590.56	9.30	581.26
E6-05	578.04	10.71	567.33
F2U-05	599.64	20.31	579.33
F4U-05	602.06	15.58	586.48
F6-05	587.85	17.65	570.20
G6-05	609.13	17.44	591.69
H2M-05	621.59	26.36	595.23
H5-05	617.31	23.20	594.11
I1-05	625.25	68.73	556.52
J2U-05	609.30	27.32	581.98
J5U-05	605.87	23.88	581.99
J6-05	609.02	25.94	583.08
PMW-1U-05	598.00	18.98	579.02
Flow Zone 6			
ABP-7-06	575.78	Dry	Dry
AFW-1U-06	571.83	14.02	557.81
AFW-2U-06	593.22	48.02	545.20
AGW-1U-06	591.66	37.61	554.05
B2U-06	589.29	34.79	554.50
C3-06	585.78	37.24	548.54
D1U-06	593.25	45.47	547.78
D2U-06	590.38	41.95	548.43
E6-06	577.99	4.12	573.87
F2M-06	599.06	39.59	559.47
F4M-06	602.05	49.93	552.12
F6-06	587.84	13.96	573.88
G1M-06	616.75	42.72	574.03
G6-06	609.09	33.32	575.77
H2M-06	621.42	62.88	558.54
H5-06	617.17	29.62	587.55
I1-06	625.15	72.73	552.42
J2M-06	608.94	53.38	555.56
J5M-06	606.22	58.38	547.84
J6-06	608.93	52.36	556.57
PMW-1U-06	597.92	50.32	547.60

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 7			
ABP-1-07	576.44	28.12	548.32
ABP-7-07	575.73	40.36	535.37
AFW-1M-07	571.41	Dry	Dry
AFW-2M-07	593.44	66.77	526.67
AGW-1M-07	592.91	38.63	554.28
B2M-07	589.52	43.81	545.71
C3-07	585.62	40.63	544.99
D1M-07	594.15	64.30	529.85
D2M-07	590.77	66.40	524.37
E6-07	577.91	23.47	554.44
F2M-07	598.91	80.37	518.54
F4M-07	601.91	70.58	531.33
F6-07	587.68	20.22	567.46
G1M-07	616.68	32.83	583.85
G6-07	609.06	26.27	582.79
H5-07	617.05	61.13	555.92
I1-07	625.14	71.92	553.22
J5M-07	606.07	51.41	554.66
J6-07	608.85	53.94	554.91
PMW-1M-07	598.50	65.33	533.17
Flow Zone 9			
ABP-1-09	575.49	40.60	534.89
ABP-7-09	575.67	40.13	535.54
AFW-1M-09	571.12	41.24	529.88
AFW-2M-09	593.32	72.14	521.18
AGW-1M-09	592.75	38.54	554.21
B2M-09	589.34	68.72	520.62
C3-09	585.00	42.33	542.67
D1M-09	594.02	74.32	519.70
D2M-09	590.66	72.58	518.08
E6-09	577.82	24.55	553.27
F2M-09	598.71	80.83	517.88
F4M-09	601.79	84.01	517.78
F6-09	587.53	4.01	583.52
G1M-09	616.58	36.26	580.32
G6-09	608.98	24.68	584.30
H2M-09	621.32	68.29	553.03
H5-09	616.93	62.94	553.99
I1-09	624.91	61.80	563.11
J2M-09	608.77	53.93	554.84
J5M-09	605.82	51.19	554.63
J6-09	608.76	37.95	570.81
PMW-1M-09	598.34	80.30	518.04

TABLE 1

WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Well	*Reference Elevation (ft AMSL)*	*Depth to Water (ft)*	*Water Level Elevation (ft AMSL)*
Flow Zone 11			
AFW-1L-11	572.10	60.07	512.03
AFW-2L-11	593.43	96.28	497.15
AGW-1L-11	592.71	13.93	578.78
B2L-11	589.65	91.18	498.47
D1L-11	593.80	89.10	504.70
D2L-11	590.21	71.22	518.99
E6-11	577.72	43.22	534.50
F2L-11	598.94	41.87	557.07
F4L-11	602.22	17.62	584.60
F6-11	587.40	58.63	528.77
G1L-11	616.84	53.22	563.62
G6-11	608.89	41.73	567.16
H2L-11	620.73	57.63	563.10
H5-11	616.81	66.03	550.78
I1-11	624.75	76.31	548.44
J5L-11	607.20	56.36	550.84
J6-11	608.68	22.54	586.14
PMW-1L-11	598.84	88.13	510.71

Notes:
ft AMSL Feet Above Mean Sea Level.
Dry No water present at the time of measurement.

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Date	*Effluent*		
	Phenol (mg/L)	*pH (standard unit)*	*Flow (gallons)*
01/02/13	0.010 U	6.80	151,000
01/03/13	-	6.80	297,000
01/07/13	-	6.80	127,000
01/08/13	0.010 U	6.90	140,000
01/09/13	-	6.90	138,000
01/10/13	-	6.90	116,000
01/11/13	-	7.10	125,000
01/14/13	-	7.00	372,000
01/15/13	-	7.10	139,000
01/16/13	0.010 U	6.90	165,000
01/17/13	-	6.90	262,000
01/18/13	-	6.90	127,000
01/21/13	-	7.10	412,000
01/22/13	-	7.00	83,000
01/23/13	0.010 U	7.00	86,000
01/24/13	-	6.50	80,000
01/25/13	-	7.00	89,000
01/28/13	-	6.90	144,000
01/29/13	-	6.90	142,000
01/30/13	0.010 U	6.90	162,000
01/31/13	-	6.90	261,000
02/01/13	-	6.90	129,000
02/04/13	-	6.90	375,000
02/05/13	-	7.00	330,000
02/06/13	0.010 U	6.90	117,000
02/07/13	-	6.80	101,000
02/08/13	-	6.80	124,000
02/11/13	-	6.90	341,000
02/12/13	-	7.00	110,000
02/13/13	0.010 U	6.90	115,000
02/14/13	-	6.90	123,000
02/15/13	-	6.80	144,000
02/18/13	-	6.90	351,000
02/19/13	-	6.90	320,000
02/20/13	0.010 U	6.90	35,000
02/21/13	-	6.80	127,000
02/22/13	-	6.90	131,000
02/25/13	-	6.90	349,000
02/26/13	-	6.90	120,000
02/27/13	0.010 U	6.70	121,000
02/28/13	-	6.90	234,000
03/01/13	-	6.90	148,000
03/04/13	-	6.90	488,000
03/05/13	-	6.80	143,000
03/06/13	0.010 U	6.90	153,000
03/07/13	-	6.90	159,000
03/08/13	-	6.80	183,000
03/11/13	-	6.90	458,000
03/12/13	-	7.00	140,000
03/13/13	0.010 U	7.10	146,000
03/14/13	-	7.00	327,000
03/18/13	-	7.00	417,000
03/19/13	-	6.90	43,000
03/20/13	0.010 U	6.90	110,000
03/21/13	-	6.90	87,000
03/22/13	-	6.90	87,000
03/25/13	-	6.90	136,000
03/26/13	-	6.90	133,000
03/27/13	0.010 U	6.90	119,000
03/28/13	-	6.90	85,000

Notes:
mg/L Milligram per liter.
U Non-detect at associated value.
- Not available.

TABLE 3

ANALYTICAL RESULTS SUMMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Effluent

Parameter	*Units*	*01/02/13*	*01/08/13*	*01/16/13*	*01/23/13*	*01/30/13*	*02/06/13*	*02/13/13*	*02/20/13*
Volatiles									
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	0.32 J	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl Bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl Chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.3	0.44 J	0.94 J	0.66 J	0.83 J	0.56 J	0.63 J	0.46 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	36	120	20	10	11	5.1	5.7	4.1
Xylenes (total)	µg/L	3.0 U	24 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Effluent

Parameter	*Units*	*02/27/13*	*03/06/13*	*03/13/13*	*03/20/13*	*03/27/13*
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl Bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl Chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.60 J	0.49 J	0.59 J	0.53 J	0.64 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	3.8	3.4	4.7	4.4	5.8
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:
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
FIRST QUARTER - 2013
HYDE PARK RRT PROGRAM

Effluent

	Sample ID:	***HP31313 EFF***
	Sample Date:	***3/13/2013***
Parameter	***Units***	
Phosphorus, Total	mg/L	0.17
Vinyl chloride	µg/L	4.3

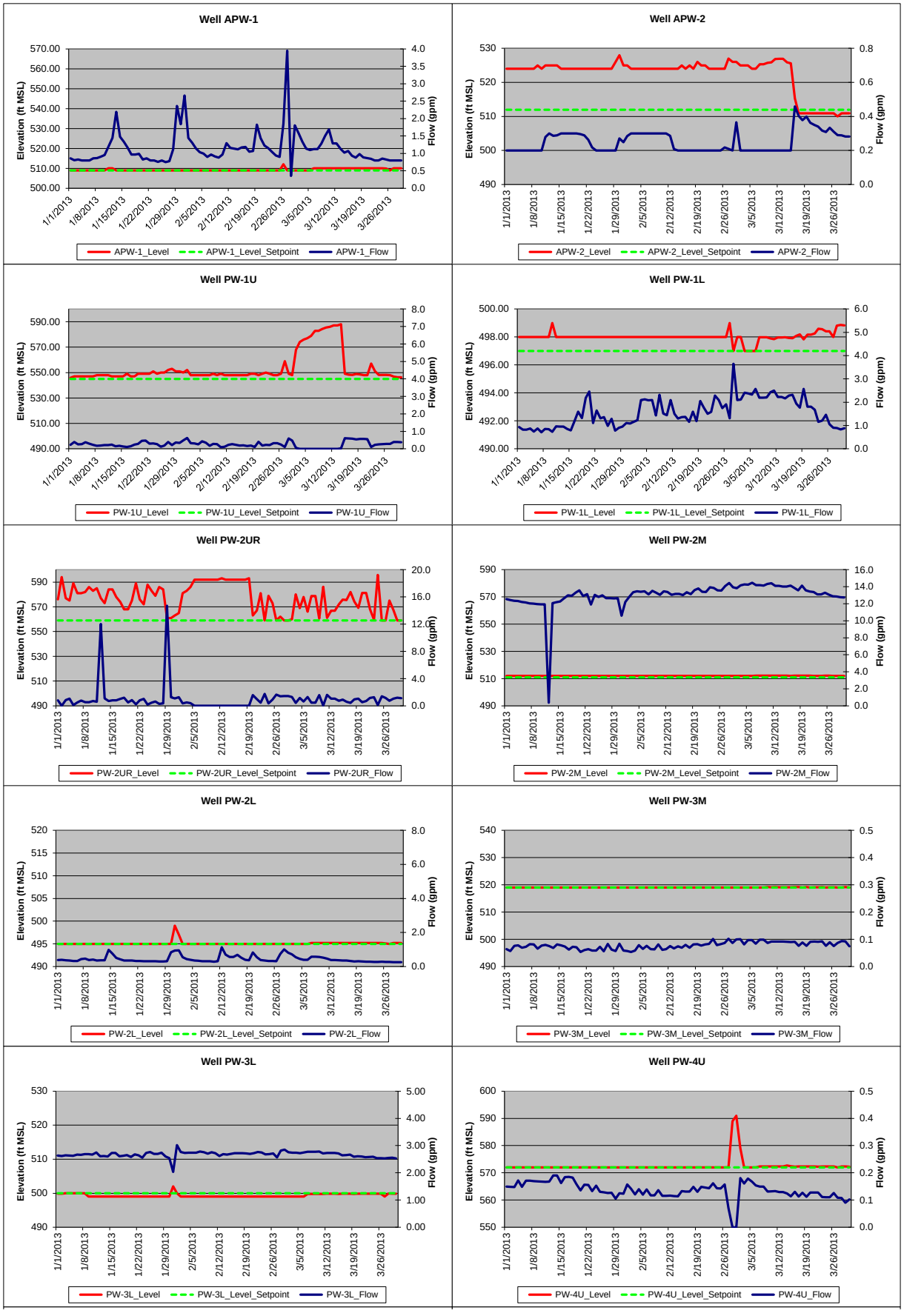
Notes:
mg/L Milligrams per liter.
µg/L Micrograms per liter.

ATTACHMENT 1

PURGE WELL GRAPHS

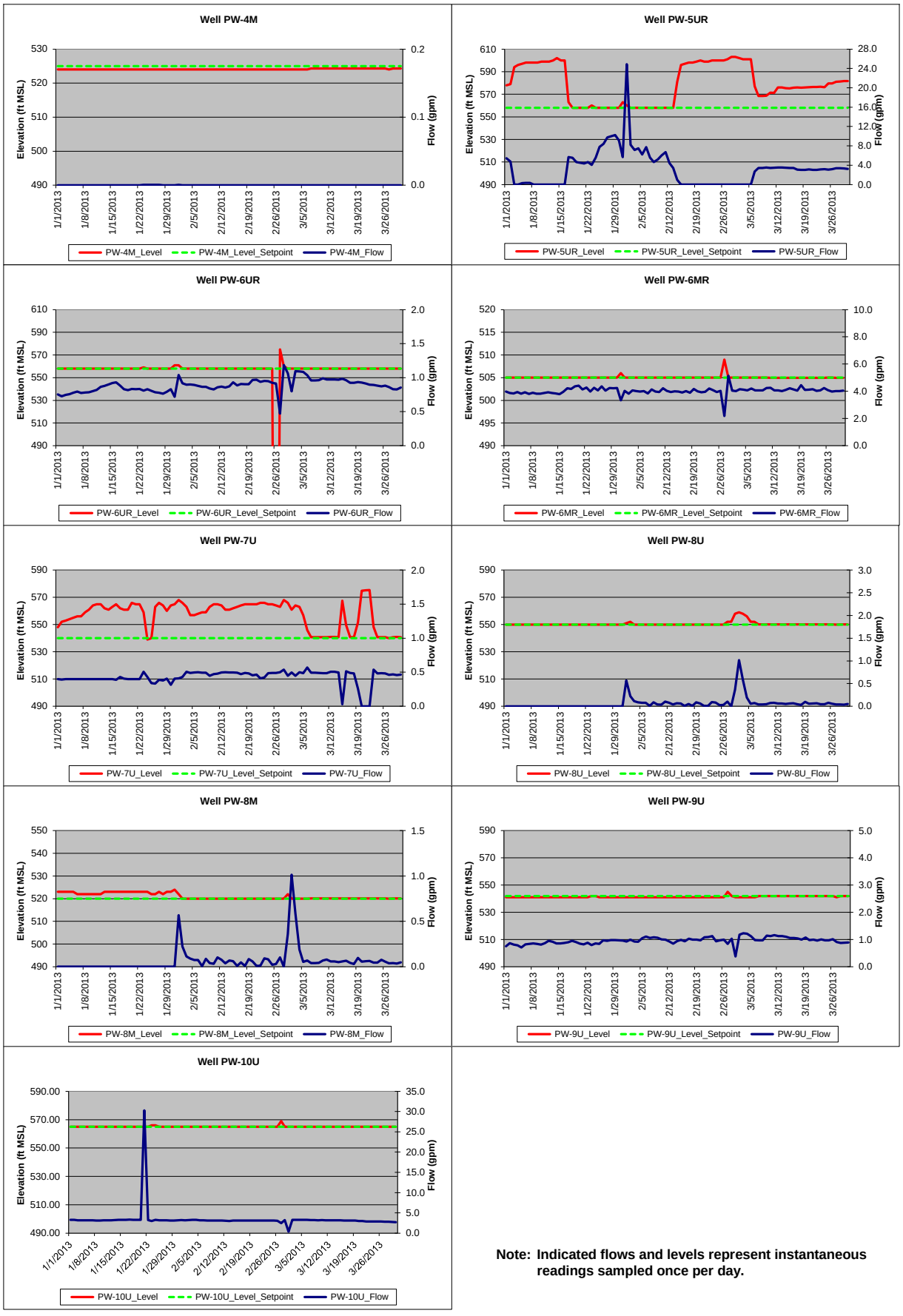
ATTACHMENT 1

FIRST QUARTER 2013 - PUMPING LEVELS AND FLOWS
HYDE PARK



ATTACHMENT 1

FIRST QUARTER 2013 - PUMPING LEVELS AND FLOWS
HYDE PARK



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