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

April 30, 2012 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 2012**
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, 2012 through March 31, 2012. A total of 11.0 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.

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 pump and motor in PW-5UR were pulled and replaced on January 5, 2012. The computer was rescaled February 2, 2012 to resolve continuing water level and pumping issues in this well. The pump and motor were pulled and replaced again on March 27, 2012, and the depth of the level probe was verified. Well function was much improved following the March pump replacement and the well is currently operational.

In mid-January, the pumping rate at PW-7U decreased. The reason for the pumping reduction is not known; however, the pump will be pulled and replaced in the second quarter when the ground at this location dries sufficiently to avoid any damage to the private property on which the well is located. The well is currently operational.

During routine maintenance at the end of March, damage from rot was discovered inside the pump in WWA. A new stainless steel pump is on order and will be installed during the second quarter. The well is currently operational.

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.

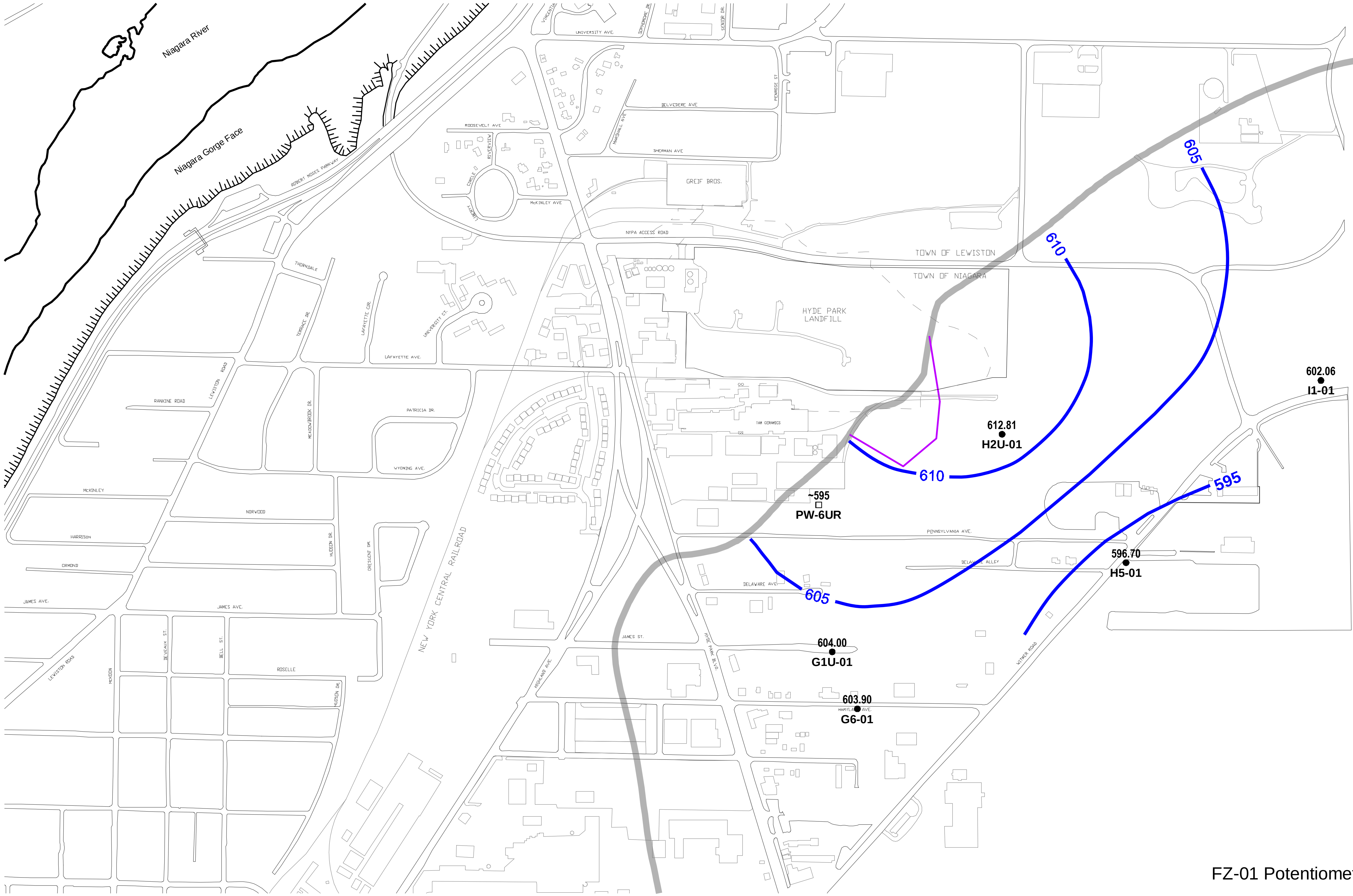
Joe Branch
Project Manager
231-670-6809 Cell

JB/adh/4
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*)

*Includes one copy on CD

FIGURES

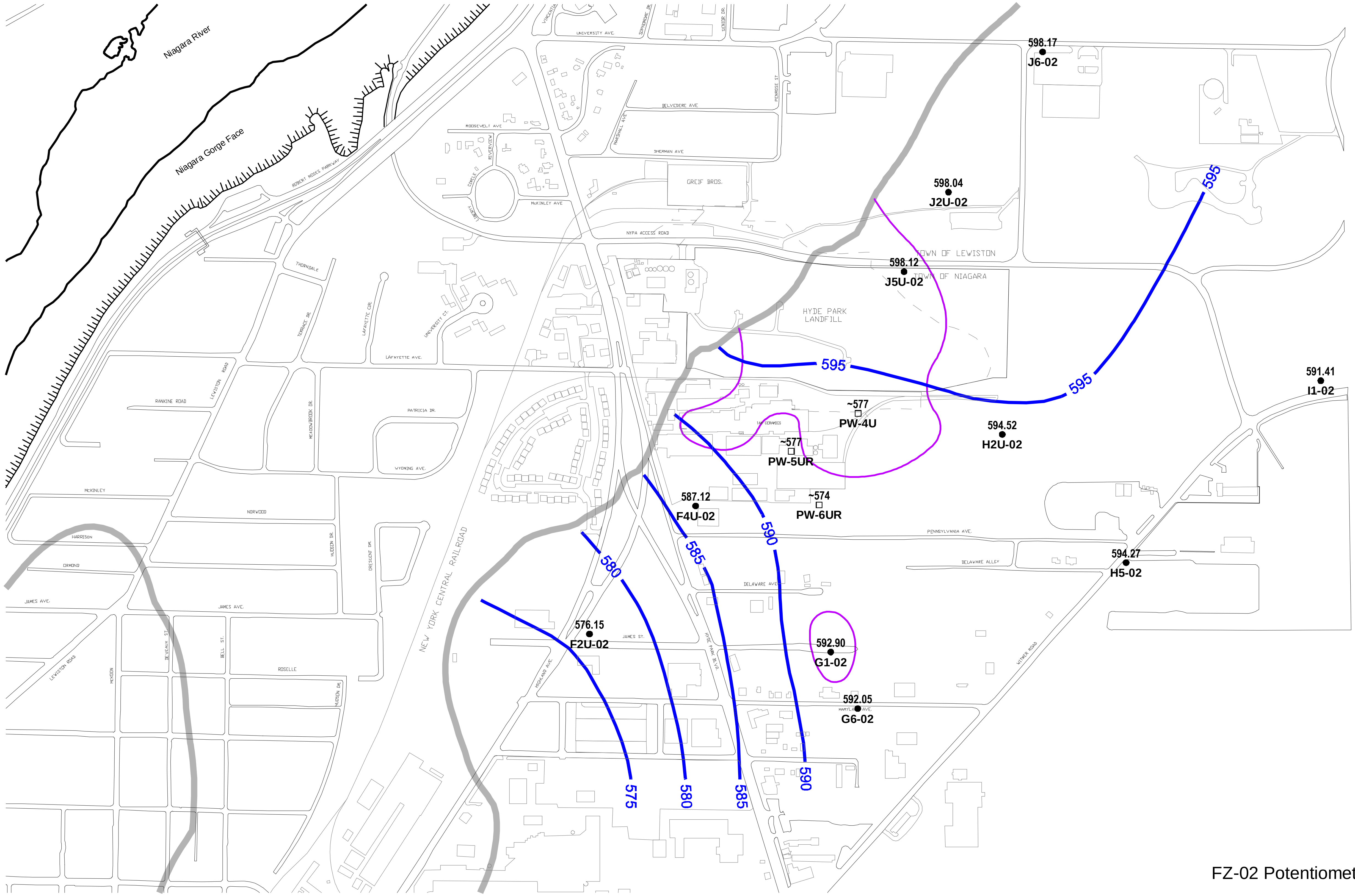


Legend

- 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 1
FZ-01 Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

OXY 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 2
FZ-02 Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

OXY 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.

N

figure 3
FZ-04 Potentiometric Surface March 2012
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.

N

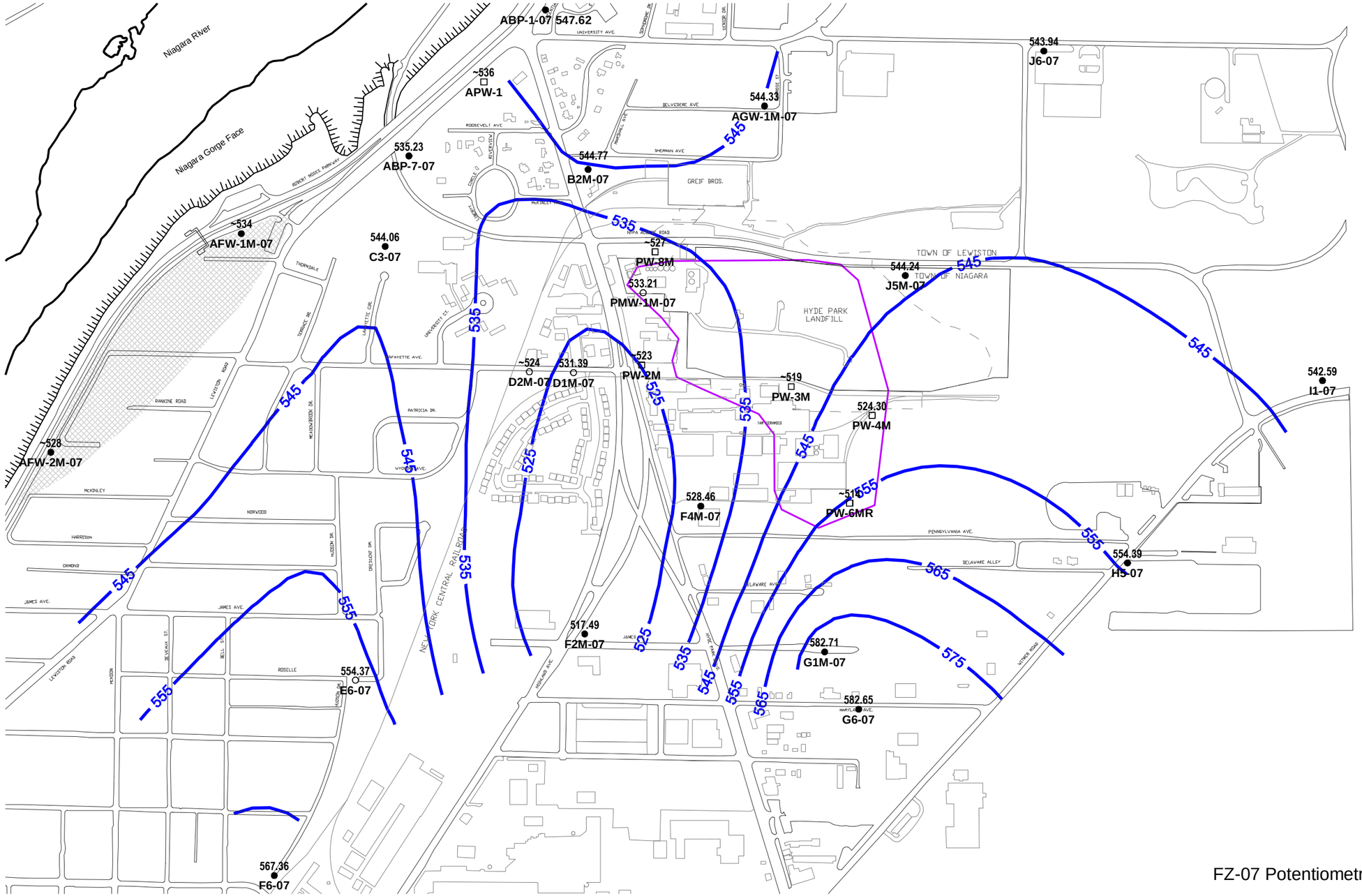
figure 4
FZ-05 Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

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.

N

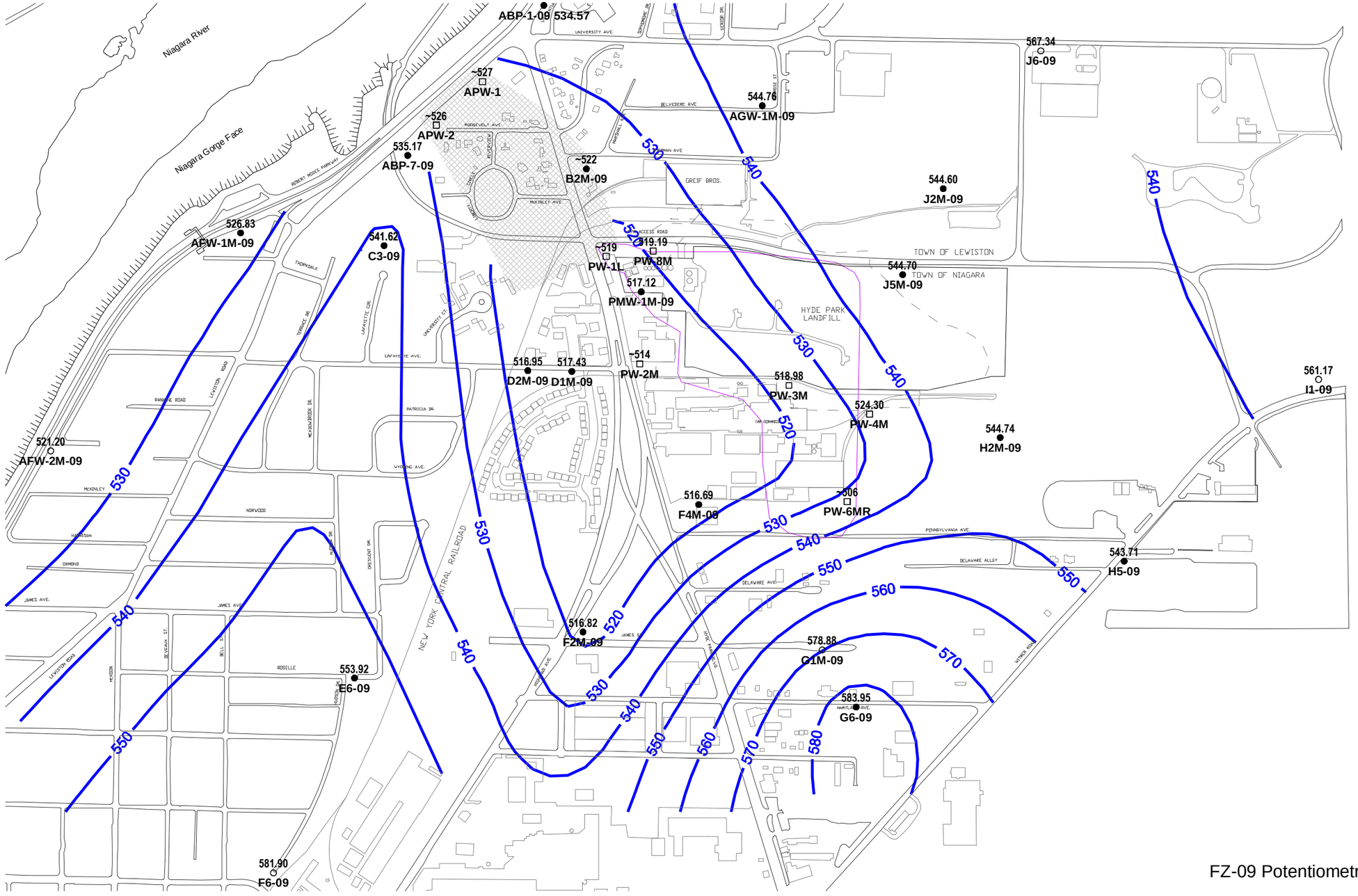
figure 5
FZ-06 Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York



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 2012
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.

N

figure 7
FZ-09 Potentiometric Surface March 2012
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.

N

figure 8
FZ-11 Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

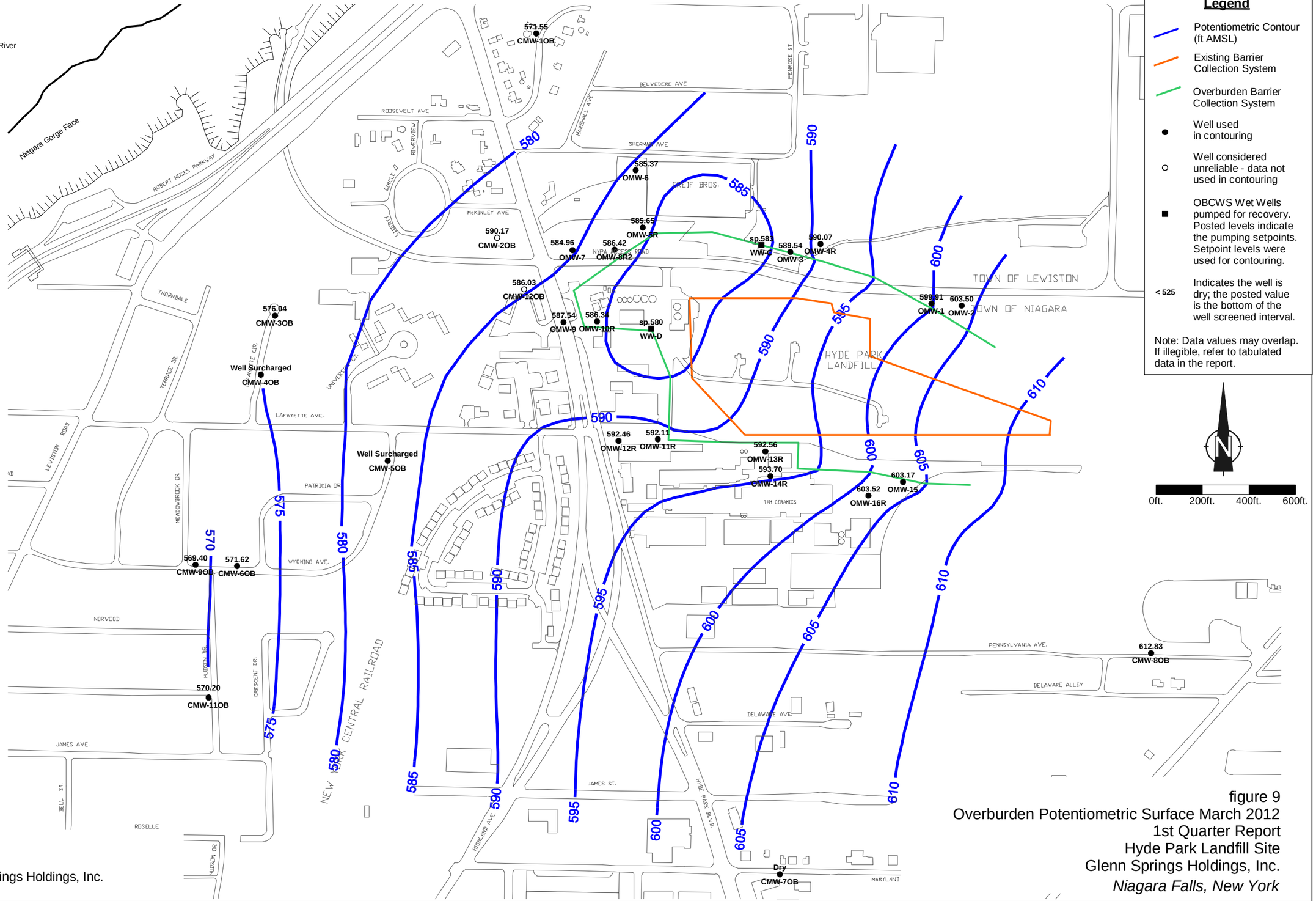


figure 9
Overburden Potentiometric Surface March 2012
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York

Glenn Springs Holdings, Inc.

PMW-1M-09 1st Quarter 2012- Daily Average Water Level Elevation

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

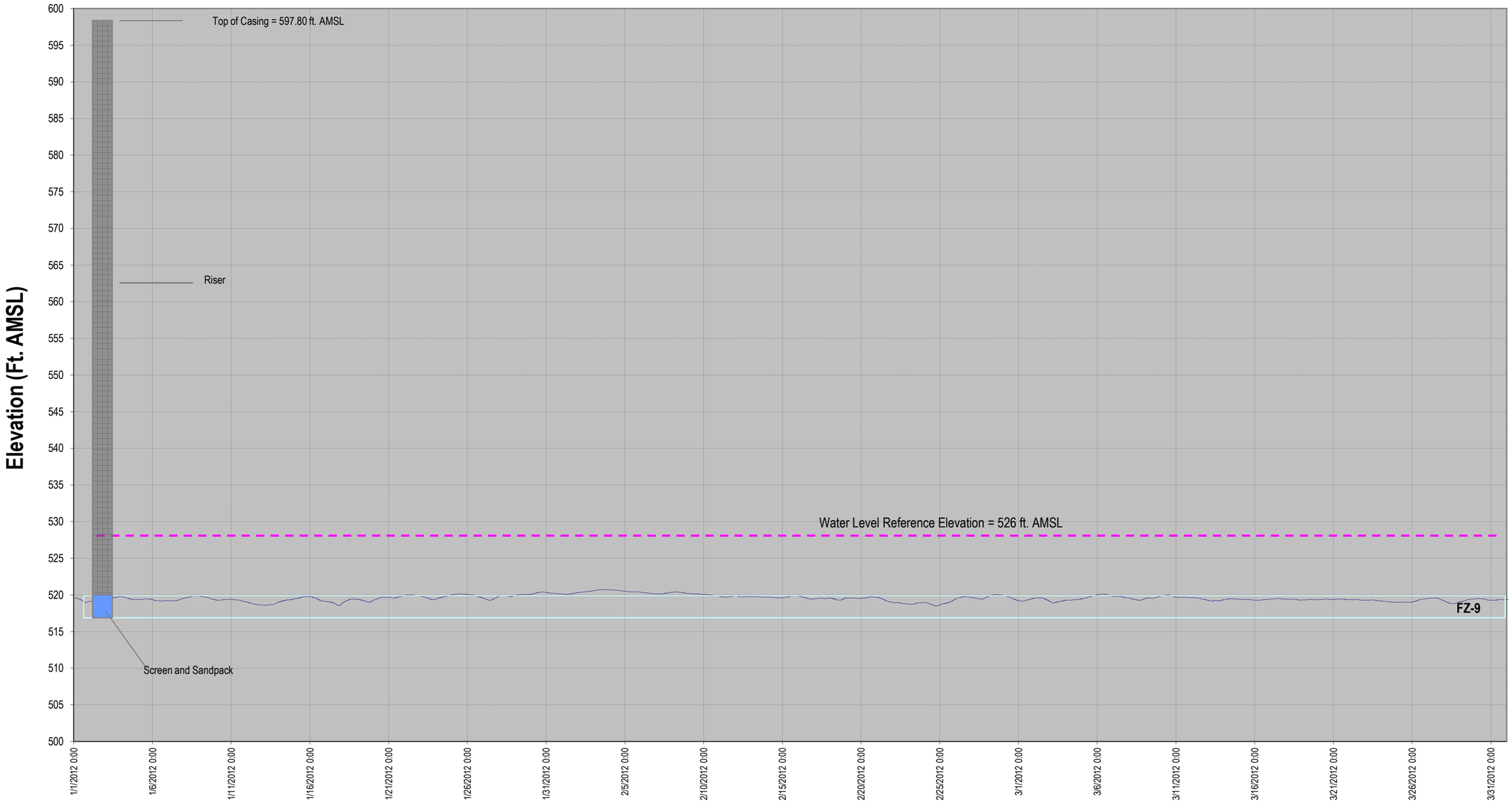


Figure 10

TABLES

TABLE 1
WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2012
HYDE PARK RRT PROGRAM

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
Overburden			
CMW-2OB	590.79	0.62	590.17
CMW-3OB	582.13	6.09	576.04
CMW-4OB	574.28	Surcharged	Surcharged
CMW-5OB	583.43	Surcharged	Surcharged
CMW-6OB	571.89	0.27	571.62
CMW-7OB	611.00	Dry	Dry
CMW-8OB	616.11	3.28	612.83
CMW-9OB	571.76	2.36	569.40
CMW-1OB	576.80	5.25	571.55
CMW-11OB	572.85	2.65	570.20
CMW-12OB	594.74	8.71	586.03
OMW-1	605.28	5.37	599.91
OMW-2	605.99	2.49	603.50
OMW-3	598.63	9.09	589.54
OMW-4R	601.17	11.10	590.07
OMW-5R	591.31	5.66	585.65
OMW-6	587.62	2.25	585.37
OMW-7	592.74	7.78	584.96
OMW-8R2	594.67	8.25	586.42
OMW-9	595.52	7.98	587.54
OMW-10R	595.13	8.79	586.34
OMW-11R	597.52	5.41	592.11
OMW-12R	596.79	4.33	592.46
OMW-13R	601.50	8.94	592.56
OMW-14R	599.64	5.94	593.70
OMW-15	607.48	4.31	603.17
OMW-16R	607.62	4.10	603.52
SC-2	625.61	22.98	602.63
SC-3	638.72	39.67	599.05
SC-4	639.35	42.07	597.28
SC-5	634.07	>29.02[(1)]	<605.05[(1)]
SC-6	631.15	16.28	614.87
Shallow Bedrock			
CMW-1SH	576.11	11.54	564.57
CMW-2SH	590.51	17.44	573.07
CMW-3SH	581.91	32.64	549.27
CMW-4SH	574.16	7.11	567.05
CMW-5SH	583.36	6.24	577.12
CMW-6SH	572.05	9.37	562.68
CMW-7SH	610.58	10.36	600.22
CMW-8SH	615.95	5.19	610.76
CMW-9SH	571.96	12.02	559.94
CMW-11SH	573.21	8.19	565.02
CMW-12SH	597.02	24.33	572.69
Flow Zone 1			
G1U-01	617.08	13.08	604.00
G6-01	609.24	5.34	603.90
H2U-01	620.92	8.11	612.81
H5-01	617.61	20.91	596.70
I1-01	625.58	23.52	602.06

TABLE 1
WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2012
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	23.74	576.15
F4U-02	602.32	15.20	587.12
G1-02	616.86	23.96	592.90
G6-02	608.65	16.60	592.05
H2U-02	620.88	26.36	594.52
H5-02	617.47	23.20	594.27
I1-02	625.47	34.06	591.41
J2U-02	609.66	11.62	598.04
J5U-02	606.21	8.09	598.12
J6-02	609.23	11.06	598.17
Flow Zone 4			
AFW-2U-04	593.48	15.53	577.95
D1U-04	593.77	11.20	582.57
D2U-04	590.65	9.39	581.26
E6-04	578.23	13.00	565.23
F2U-04	599.76	20.97	578.79
F4U-04	602.19	15.08	587.11
F6-04	588.06	17.83	570.23
G1U-04	616.96	24.32	592.64
G6-04	609.15	16.74	592.41
H5-04	617.40	23.25	594.15
I1-04	625.30	38.31	586.99
J2U-04	609.42	14.20	595.22
J5U-04	606.05	18.11	587.94
J6-04	609.12	26.81	582.31
Flow Zone 5			
AFW-2U-05	593.33	15.49	577.84
AGW-1U-05	591.80	5.65	586.15
D1U-05	593.51	12.33	581.18
D2U-05	590.56	9.52	581.04
E6-05	578.04	11.00	567.04
F2U-05	599.64	20.62	579.02
F4U-05	602.06	16.46	585.60
F6-05	587.85	17.74	570.11
G6-05	609.13	18.60	590.53
H2M-05	621.59	27.54	594.05
H5-05	617.31	24.81	592.50
I1-05	625.25	71.65	553.60
J2U-05	609.30	29.43	579.87
J5U-05	605.87	26.09	579.78
J6-05	609.02	27.71	581.31
PMW-1U-05	598.00	19.09	578.91

TABLE 1
WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2012
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	13.92	557.91
AFW-2U-06	593.22	48.05	545.17
AGW-1U-06	591.66	38.96	552.70
B2U-06	589.29	36.02	553.27
C3-06	585.78	37.48	548.30
D1U-06	593.25	46.81	546.44
D2U-06	590.38	43.15	547.23
E6-06	577.99	4.42	573.57
F2M-06	599.06	38.25	560.81
F4M-06	602.05	50.50	551.55
F6-06	587.84	14.29	573.55
G1M-06	616.75	43.09	573.66
G6-06	609.09	33.56	575.53
H2M-06	621.42	59.76	561.66
H5-06	617.17	29.57	587.60
I1-06	625.15	76.21	548.94
J2M-06	608.94	57.12	551.82
J5M-06	606.22	59.96	546.26
J6-06	608.93	53.22	555.71
PMW-1U-06	597.92	51.27	546.65
Flow Zone 7			
ABP-1-07	576.44	28.82	547.62
ABP-7-07	575.73	40.50	535.23
AFW-1M-07	571.41	Dry	Dry
AFW-2M-07	593.44	66.80	526.64
AGW-1M-07	592.91	48.58	544.33
B2M-07	589.52	44.75	544.77
C3-07	585.62	41.56	544.06
D1M-07	594.15	62.76	531.39
D2M-07	590.77	66.98	523.79
E6-07	577.91	23.54	554.37
F2M-07	598.91	81.42	517.49
F4M-07	601.91	73.45	528.46
F6-07	587.68	20.32	567.36
G1M-07	616.68	33.97	582.71
G6-07	609.06	26.41	582.65
H5-07	617.05	62.66	554.39
I1-07	625.14	82.55	542.59
J5M-07	606.07	61.83	544.24
J6-07	608.85	64.91	543.94
PMW-1M-07	598.50	65.29	533.21

TABLE 1
WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2012
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	40.92	534.57
ABP-7-09	575.67	40.50	535.17
AFW-1M-09	571.12	44.29	526.83
AFW-2M-09	593.32	72.12	521.20
AGW-1M-09	592.75	47.99	544.76
B2M-09	589.34	68.60	520.74
C3-09	585.00	43.38	541.62
D1M-09	594.02	76.59	517.43
D2M-09	590.66	73.71	516.95
E6-09	577.82	23.90	553.92
F2M-09	598.71	81.89	516.82
F4M-09	601.79	85.10	516.69
F6-09	587.53	5.63	581.90
G1M-09	616.58	37.70	578.88
G6-09	608.98	25.03	583.95
H2M-09	621.32	76.58	544.74
H5-09	616.93	73.22	543.71
I1-09	624.91	63.74	561.17
J2M-09	608.77	64.17	544.60
J5M-09	605.82	61.12	544.70
J6-09	608.76	41.42	567.34
PMW-1M-09	598.34	81.22	517.12
Flow Zone 11			
AFW-1L-11	572.10	62.08	510.02
AFW-2L-11	593.43	96.74	496.69
AGW-1L-11	592.71	18.75	573.96
B2L-11	589.65	90.59	499.06
D1L-11	593.80	88.46	505.34
D2L-11	590.21	71.22	518.99
E6-11	577.72	43.70	534.02
F2L-11	598.94	40.75	558.19
F4L-11	602.22	35.59	566.63
F6-11	587.40	58.71	528.69
G1L-11	616.84	56.92	559.92
G6-11	608.89	45.19	563.70
H2L-11	620.73	63.78	556.95
H5-11	616.81	63.22	553.59
I1-11	624.75	77.34	547.41
J5L-11	607.20	62.77	544.43
J6-11	608.68	23.60	585.08
PMW-1L-11	598.84	88.95	509.89

Notes
Dry - No water present at the time of measurement.
ft AMSL - Feet Above Mean Sea Level
(1) Well obstructed at 29.02 feet.

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2012
HYDE PARK RRT PROGRAM

	Effluent			
Date	*Phenol (mg/L)*	*pH (s.u.)*	*Flow (gal)*	*Comments*
01/02/12	-	7.00	375,000	
01/03/12	-	7.00	118,000	
01/04/12	0.010 U	7.30	88,000	
01/05/12	-	7.10	256,000	
01/06/12	-	7.00	60,000	
01/09/12	-	8.00	354,000	
01/10/12	0.010 U	8.00	7,000	
01/12/12	-	8.00	276,000	
01/13/12	-	8.00	40,000	
01/16/12	-	7.50	367,000	
01/17/12	-	8.00	108,000	
01/18/12	0.010 U	7.00	99,000	
01/19/12	-	7.20	342,000	
01/20/12	-	7.00	95,000	
01/23/12	-	6.90	375,000	
01/24/12	-	6.90	364,000	
01/25/12	0.010 U	7.00	49,000	
01/26/12	-	7.00	118,000	
01/27/12	-	6.90	163,000	
01/30/12	-	6.90	368,000	
01/31/12	-	6.90	382,000	
02/01/12	0.010 U	6.90	118,000	
02/02/12	-	6.90	127,000	
02/03/12	-	6.90	310,000	
02/06/12	-	6.80	383,000	
02/07/12	-	6.90	121,000	
02/08/12	0.010 U	6.90	65,000	
02/09/12	-	6.90	276,000	
02/10/12	-	6.90	39,000	
02/13/12	-	6.90	367,000	
02/15/12	0.010 U	6.80	111,000	
02/16/12	-	7.00	120,000	
02/17/12	-	7.00	116,000	
02/20/12	-	6.90	355,000	
02/21/12	-	6.90	66,000	
02/22/12	0.010 U	6.90	114,000	
02/23/12	-	7.00	124,000	
02/24/12	-	6.80	142,000	
02/27/12	-	7.00	446,000	
02/28/12	-	7.00	155,000	
02/29/12	0.010 U	7.00	128,000	
03/01/12	-	6.90	169,000	
03/02/12	-	6.90	108,000	
03/05/12	-	6.80	376,000	
03/06/12	-	6.90	51,000	
03/07/12	0.010 U	6.90	108,000	
03/08/12	-	6.90	91,000	
03/09/12	-	6.90	132,000	
03/12/12	-	6.90	134,000	
03/13/12	-	6.80	150,000	

TABLE 2

LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2012
HYDE PARK RRT PROGRAM

	Effluent			
Date	*Phenol (mg/L)*	*pH (s.u.)*	*Flow (gal)*	*Comments*
03/14/12	0.010 U	6.90	119,000	
03/15/12	-	6.80	154,000	
03/16/12	-	6.80	97,000	
03/19/12	-	6.90	138,000	
03/20/12	-	6.90	147,000	
03/21/12	0.013	6.90	127,000	
03/22/12	-	7.00	64,000	
03/23/12	-	7.00	70,000	
03/26/12	-	7.00	139,000	
03/27/12	-	7.10	148,000	
03/28/12	0.010 U	6.90	144,000	
03/29/12	-	6.80	142,000	
03/30/12	-	6.80	116,000	

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

TABLE 3
ANALYTICAL RESULTS SUMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2012
HYDE PARK RRT PROGRAM

Effluent

Parameter	Units	01/04/12	01/10/12	01/18/12	01/25/12	02/01/12	02/08/12	02/15/12	02/22/12
Volatiles									
1,1,1-Trichloroethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
2-Chlorotoluene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
3-Chlorotoluene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
4-Chlorotoluene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Bromoform	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Carbon disulfide	µg/L	1.0 U	1.3 J	1.6 J	5.0 U	5.0 U	3.4 J	10 U	10 U
Carbon tetrachloride	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Chlorobenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Chloroethane	µg/L	1.0 U	1.1 J	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	1.4	1.1 J	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Ethylbenzene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Methylene chloride	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	1.6 J	2.4 J	10 U	2.1 J
m-Monochlorobenzotrifluoride	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Styrene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Toluene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Trichloroethene	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Vinyl acetate	µg/L	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Vinyl chloride	µg/L	90	56	100	110	150	180	180	280
Xylenes (total)	µg/L	3.0 U	12 U	15 U	15 U	15 U	30 U	30 U	30 U

TABLE 3
ANALYTICAL RESULTS SUMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2012
HYDE PARK RRT PROGRAM

Effluent

Parameter	Units	02/29/12	03/07/12	03/14/12	03/21/12	03/28/12
1,1,1-Trichloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,1,2,2-Tetrachloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,1,2-Trichloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,1-Dichloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,1-Dichloroethene	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,2,4-Trichlorobenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,2-Dichlorobenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,2-Dichloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,2-Dichloropropane	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,3-Dichlorobenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
1,4-Dichlorobenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
2-Chlorotoluene	µg/L	13 U	7.5 U	13 U	13 U	13 U
3-Chlorotoluene	µg/L	13 U	7.5 U	13 U	13 U	13 U
4-Chlorotoluene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Benzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Bromodichloromethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
Bromoform	µg/L	13 U	7.5 U	13 U	13 U	13 U
Bromomethane (Methyl Bromide)	µg/L	13 U	7.5 U	13 U	13 U	13 U
Carbon disulfide	µg/L	13 U	7.5 U	13 U	13 U	13 U
Carbon tetrachloride	µg/L	13 U	7.5 U	13 U	13 U	13 U
Chlorobenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Chloroethane	µg/L	13 U	7.5 U	13 U	13 U	13 U
Chloroform (Trichloromethane)	µg/L	13 U	7.5 U	13 U	13 U	13 U
Chloromethane (Methyl Chloride)	µg/L	13 U	7.5 U	13 U	13 U	13 U
cis-1,2-Dichloroethene	µg/L	13 U	7.5 U	13 U	13 U	13 U
cis-1,3-Dichloropropene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Dichlorodifluoromethane (CFC-12)	µg/L	13 U	7.5 U	13 U	13 U	13 U
Ethylbenzene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Methylene chloride	µg/L	2.2 J	7.5 U	13 U	13 U	13 U
m-Monochlorobenzotrifluoride	µg/L	13 U	7.5 U	13 U	13 U	13 U
o-Monochlorobenzotrifluoride	µg/L	13 U	7.5 U	13 U	13 U	13 U
p-Monochlorobenzotrifluoride	µg/L	13 U	7.5 U	13 U	13 U	13 U
Styrene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Tetrachloroethene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Toluene	µg/L	13 U	7.5 U	13 U	13 U	13 U
trans-1,2-Dichloroethene	µg/L	13 U	7.5 U	13 U	13 U	13 U
trans-1,3-Dichloropropene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Trichloroethene	µg/L	13 U	7.5 U	13 U	13 U	13 U
Trichlorofluoromethane (CFC-11)	µg/L	13 U	7.5 U	13 U	13 U	13 U
Vinyl acetate	µg/L	13 U	7.5 U	13 U	13 U	13 U
Vinyl chloride	µg/L	180	230	250	250	230
Xylenes (total)	µg/L	38 U	23 U	38 U	38 U	38 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 - 2012
HYDE PARK RRT PROGRAM

Effluent

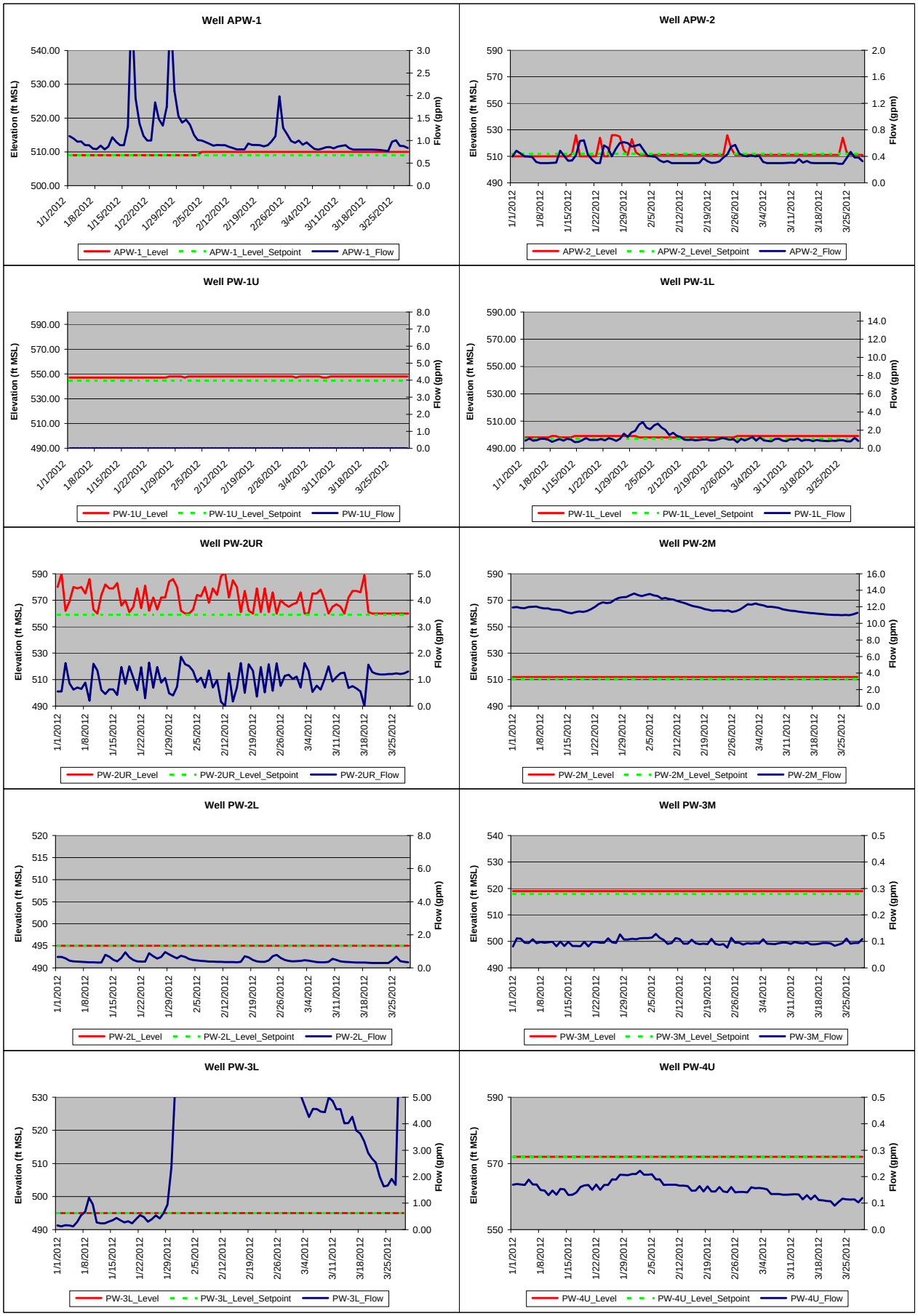
	Sample ID:	*HP22212 EFF*
	Sample Date:	*02/22/12*
Parameter	***Units***	
Phosphorus, Total	mg/L	0.14
Vinyl chloride	µg/L	280

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

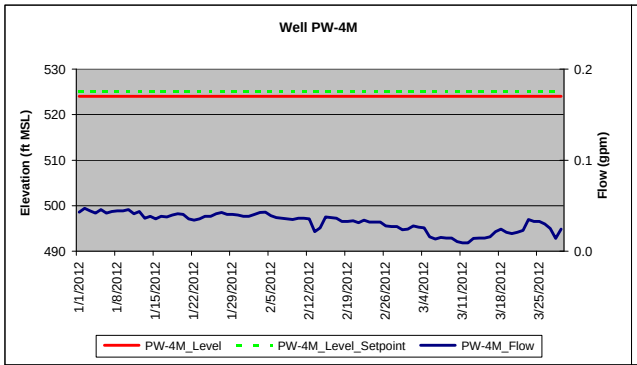
ATTACHMENT 1

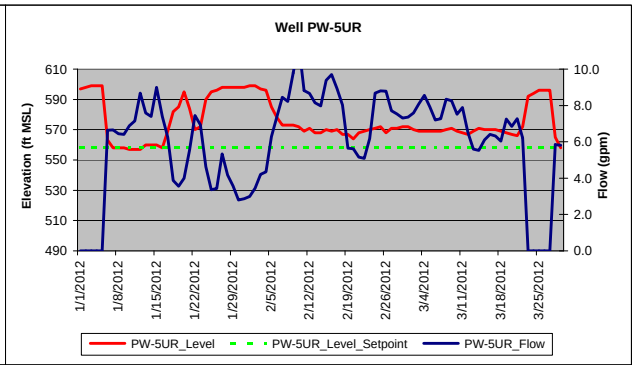
PURGE WELL PERFORMANCE GRAPHS

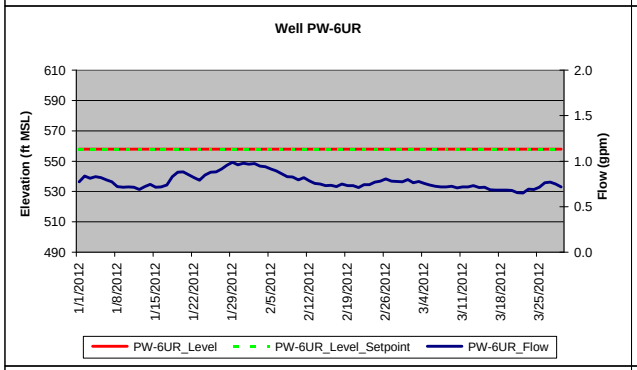
Attachment 1
1st Quarter 2012 - Pumping Levels and Flows
Hyde Park

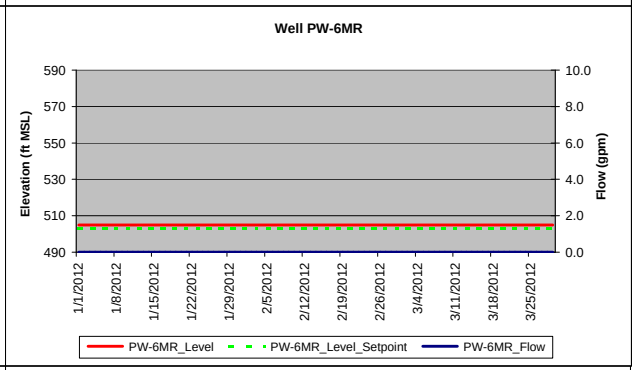


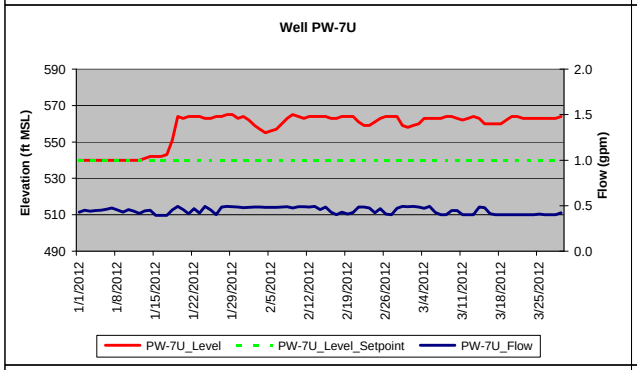
Attachment 1
1st Quarter 2012 - Pumping Levels and Flows
Hyde Park

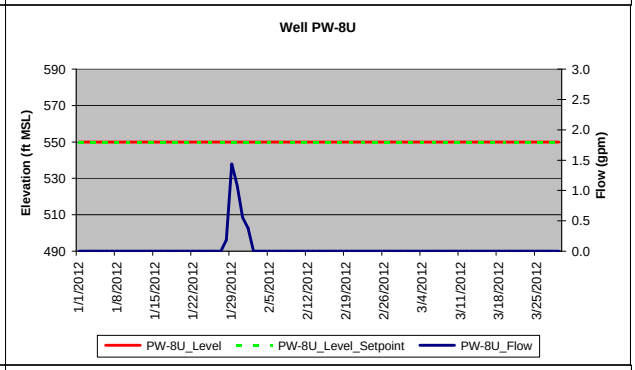


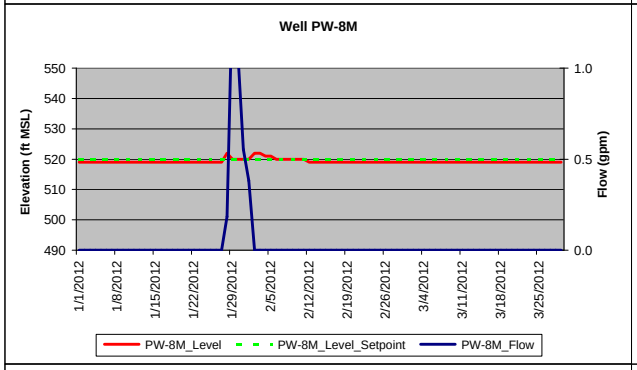


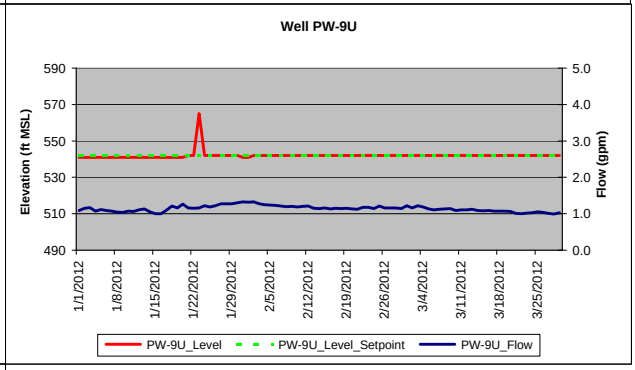


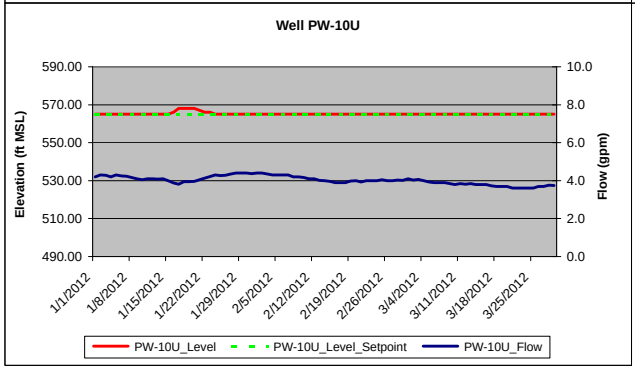












Note: Indicated flows and levels represent instantaneous readings sampled once per day.