



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

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

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Montague, MI 49437
Fax (231) 894-4033

April 30, 2014

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 2014
Hyde Park Remedial Program
Bedrock and Overburden Monitoring Programs

In accordance with the July 2006 "Performance Monitoring Plan" (PMP), the following is the Quarterly Operations Report for the Hyde Park Remedial Program for the period January 1, 2014 through March 31, 2014. A total of 10.4 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 in the first quarter. 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:

- Figures 1-9: showing the potentiometric surface for the bedrock flow zones and overburden
- Figure 10: showing continuously recorded water levels at flow zone 9 piezometer PMW-1M-09
- Table 1: water level elevation summary
- Tables 2, 3, and 4: daily, weekly, and quarterly treatment system effluent monitoring data
- Attachment 1: purge well performance graphs indicating daily level and flow information

The pumping wells are operational and functioning as designed. The pumps are operated to maintain a water level between a typical range of 2.5 feet above (pump on) and 2.5 feet below (pump off) a specific setpoint in accordance with the Operation & Maintenance Manual (setpoint range). The following minor operational and setpoint issues were investigated or resolved during the First Quarter 2014:

- Beginning January 6, cold weather (as low as 0° F) caused the level probes in the storage tanks to freeze, which shut down the wells and treatment system. The treatment system and some wells were brought back on line January 8, but a frozen forcemain continued to affect APWs-1 and -2, and PWs-7U, -8U, -9U, and -10U until January 13.
- A false high reading in the No. 3 storage tank on March 20 caused the wells to shut down. The transmitter was repaired that day and has been operating properly since that time.
- PW-2UR: The pump in PW-2UR periodically shuts off overnight due to a false low-low level alarm even though the water level is substantially above the low-low alarm setting based on a comparison of the water level trend before and after the time the alarm trips. The pump will not restart until the alarm is cleared, which is done as soon as the operator arrives in the morning. Once the pump is restarted, the water level is quickly drawn down to within setpoint range. Water level readings recorded throughout the day confirm that the water level remains within setpoint range. The level transmitter was replaced in 2013. The current level transmitter was checked and found to be functioning properly. The source of the false signal cannot be determined. The alarm programming was revised on April 28 to provide a 30-second delay before the low-low alarm will be tripped preventing a short false signal from tripping the alarm. Since the programming change was implemented, the low-low alarm has not been tripped. This will be further monitored in the coming quarter.
- PW-3L: A false reading on the control screen indicated that the pump was on and pumping between January 18 and February 4; however, the pump was actually not functioning. The false indication was investigated, but the reason for the false signal could not be determined. The control screen is currently displaying the correct reading. The pump was replaced on March 5 and has been maintaining a water level within setpoint range since. Additional checks have been put into place to monitor the pump and water level.
- PW-4U: This pump failed to restart after the freeze-up problems due to intermittent electrical issues. The pump was pulled and replaced on January 16 and has maintained setpoint since that time.
- PW-5UR: The pump in PW-5UR was shutting down intermittently in late January and early February. The pump has functioned properly and maintained a water level within the setpoint range since that time.
- PW-6UR: This well shut down due to a frozen discharge line on January 29. The line thawed out during the day and the pump resumed working.

April 30, 2014

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- 3 -

- PW-7U: The pump in this well tripped an electrical breaker on March 5 and was reset. There have been no further issues.
- PW-8M: This well recharges very slowly. The setpoint for this well is 520 feet, and the setpoint range is between 525 feet (pump on) and 519 feet (pump off). The water level in this well remained in the setpoint range. The setpoint range will be reduced in the second quarter to address the slow recharge rate.
- PW-8U: This well was down on February 22 due to a freeze-up in its discharge line. The issue was corrected that day, and the well achieved setpoint by February 24.
- PW-9U: A malfunctioning pump caused the well to lose setpoint on February 26. Due to the weather-related issues, the pump could not be repaired until March 19. The pump has functioned properly and maintained a water level within the setpoint range since that time.
- PW-10U: The pump in PW-10U was essentially achieving a water level within setpoint range through the quarter (except for freeze-up issues described above) until March 9. As a result, the pump in PW-10U was repaired on March 21, and the water level has remained within the setpoint range since that time.

An electronic copy of this report is included on the attached CD. 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,



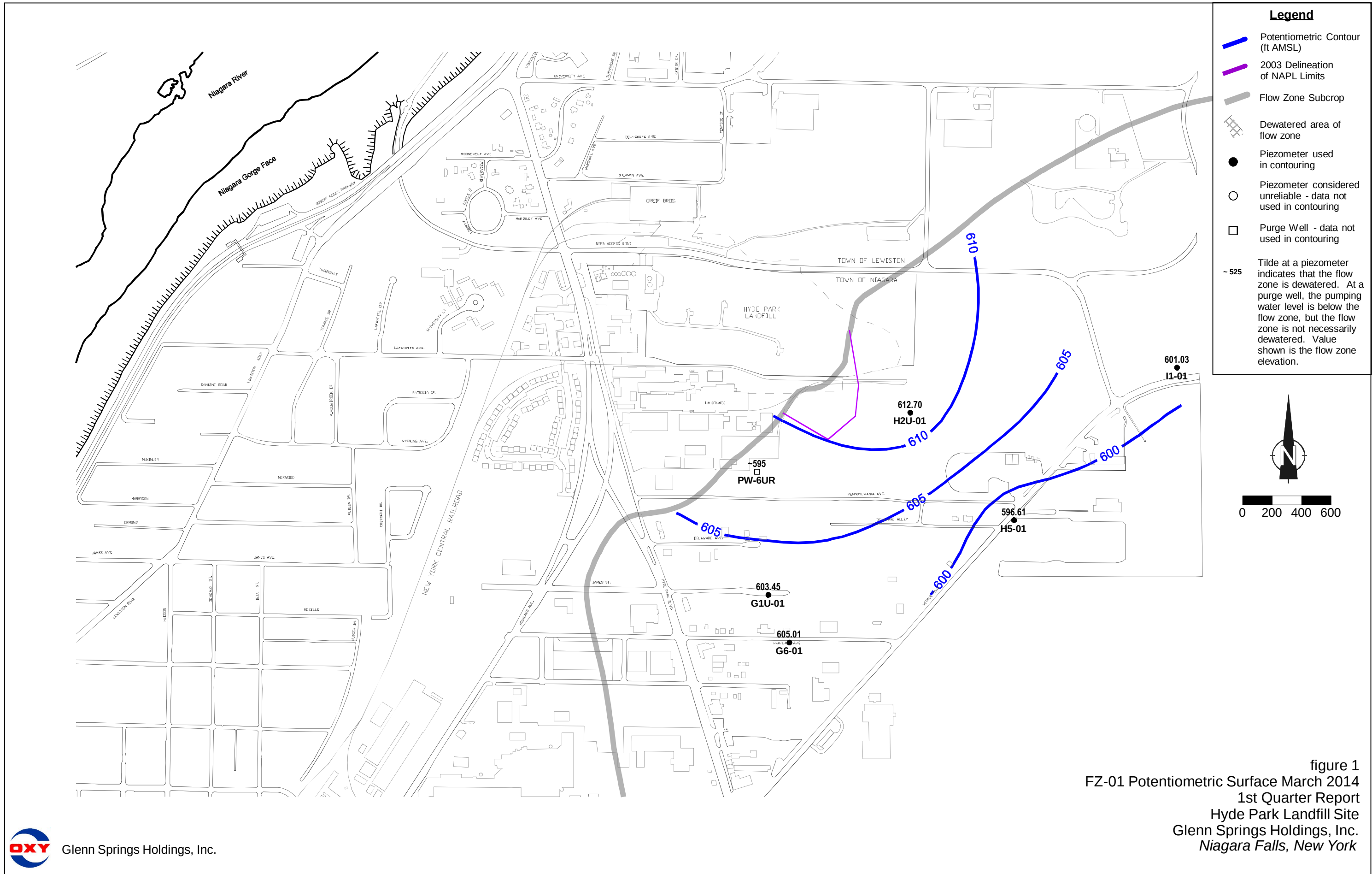
Joe Branch
GLENN SPRINGS HOLDINGS, INC.
Site Manager
231-670-6809 Cell

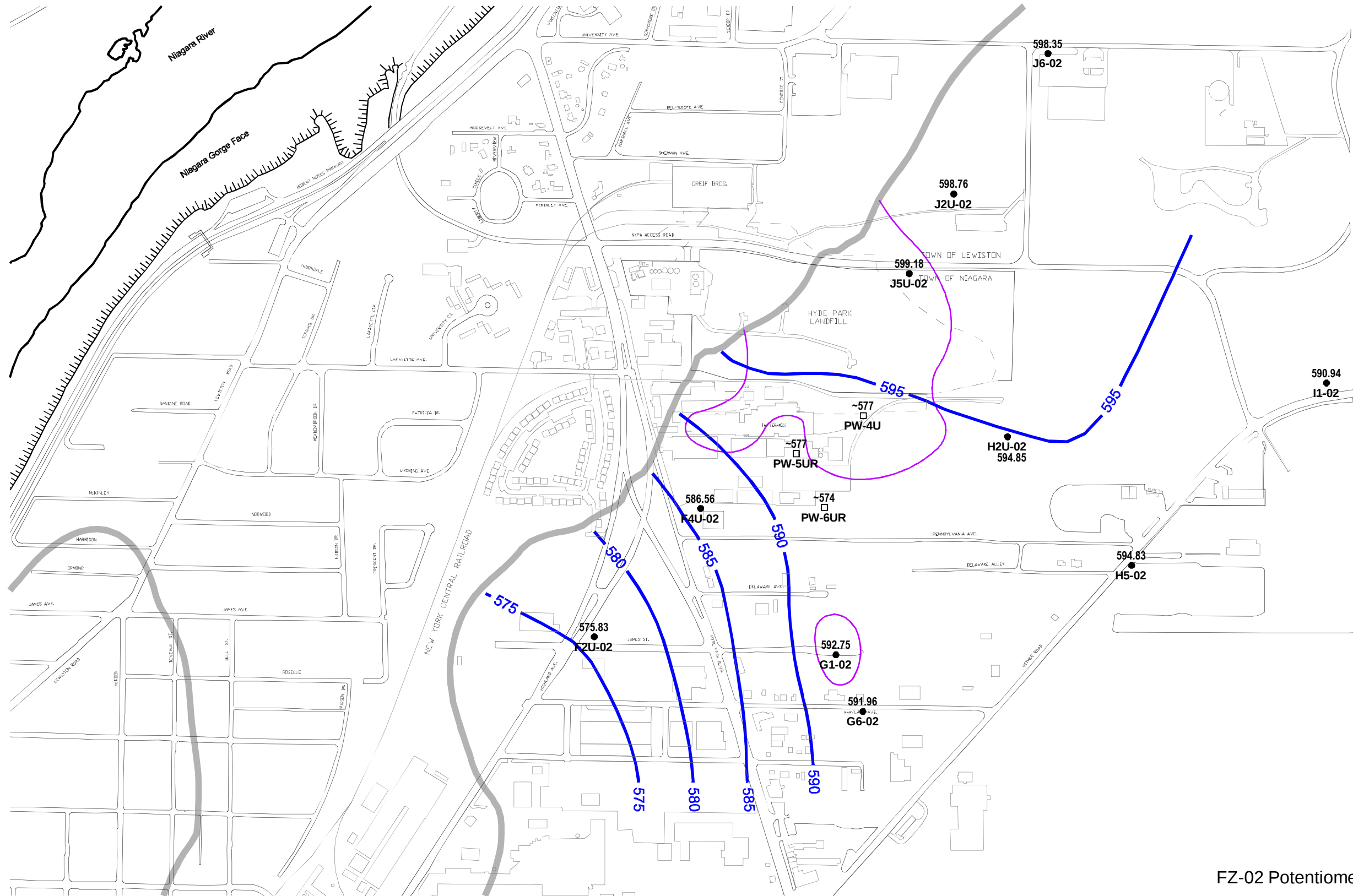
JB/adh/15
Encl.

c.c.: M. Anderson, GSH (1)
C. Babcock, GSH (1)
M. Forcucci, NYSDOH (1*)
J. Pentilchuk, CRA (email)

B. Sadowski, NYSDEC (CD Only)
G. Sosa, USEPA (4*)
J. Polovich, CRA (email)

*Includes one copy on CD





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

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.

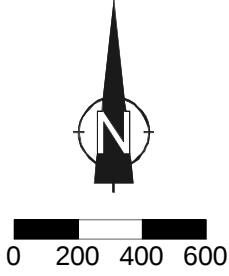
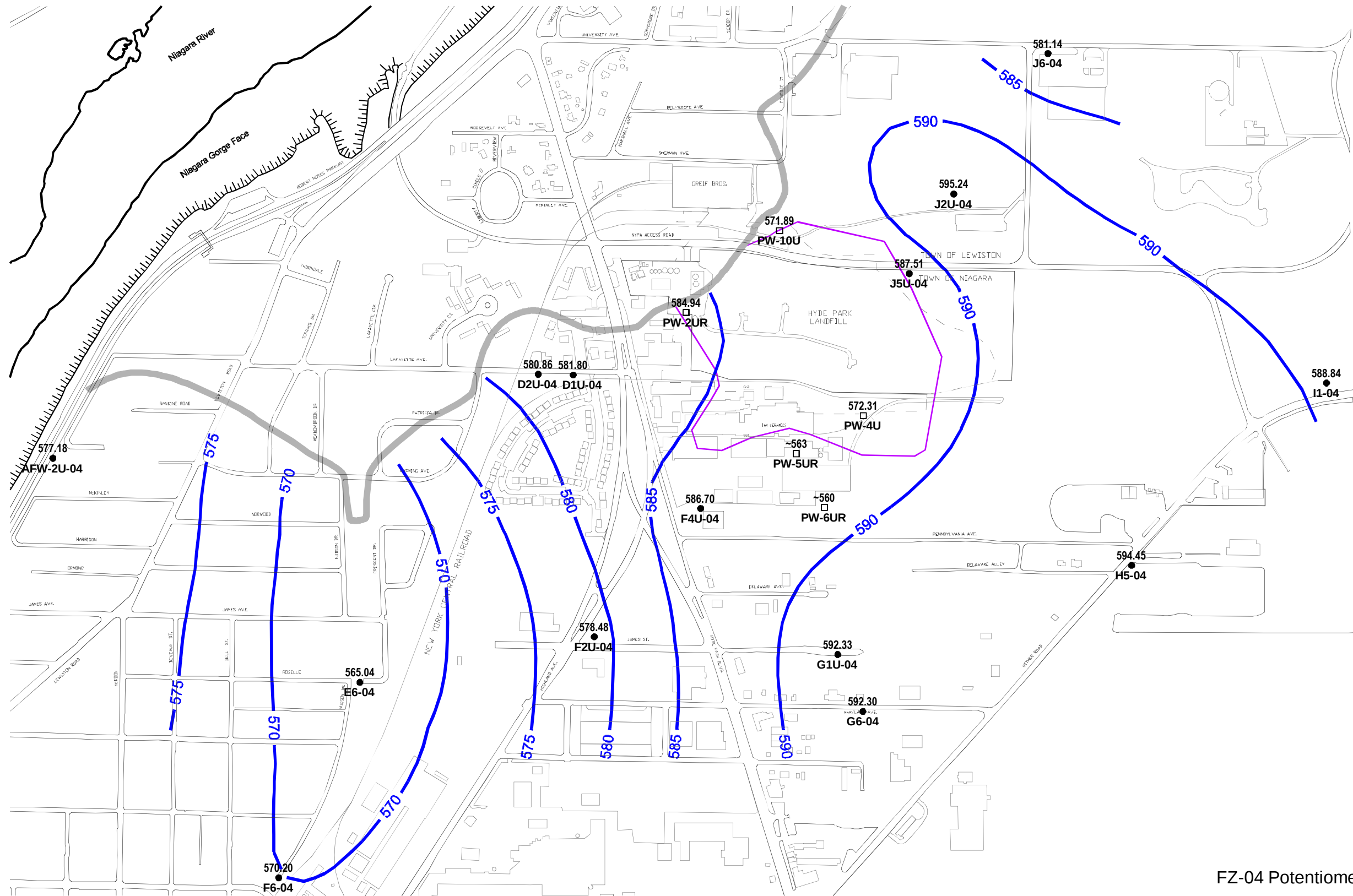


figure 2
 FZ-02 Potentiometric Surface March 2014
 1st Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.
 Niagara Falls, New York



Legend

- Potentiometric Contour (ft AMSL)
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- 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

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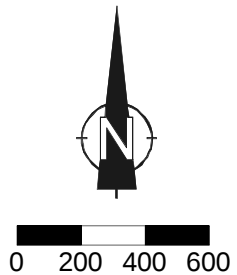
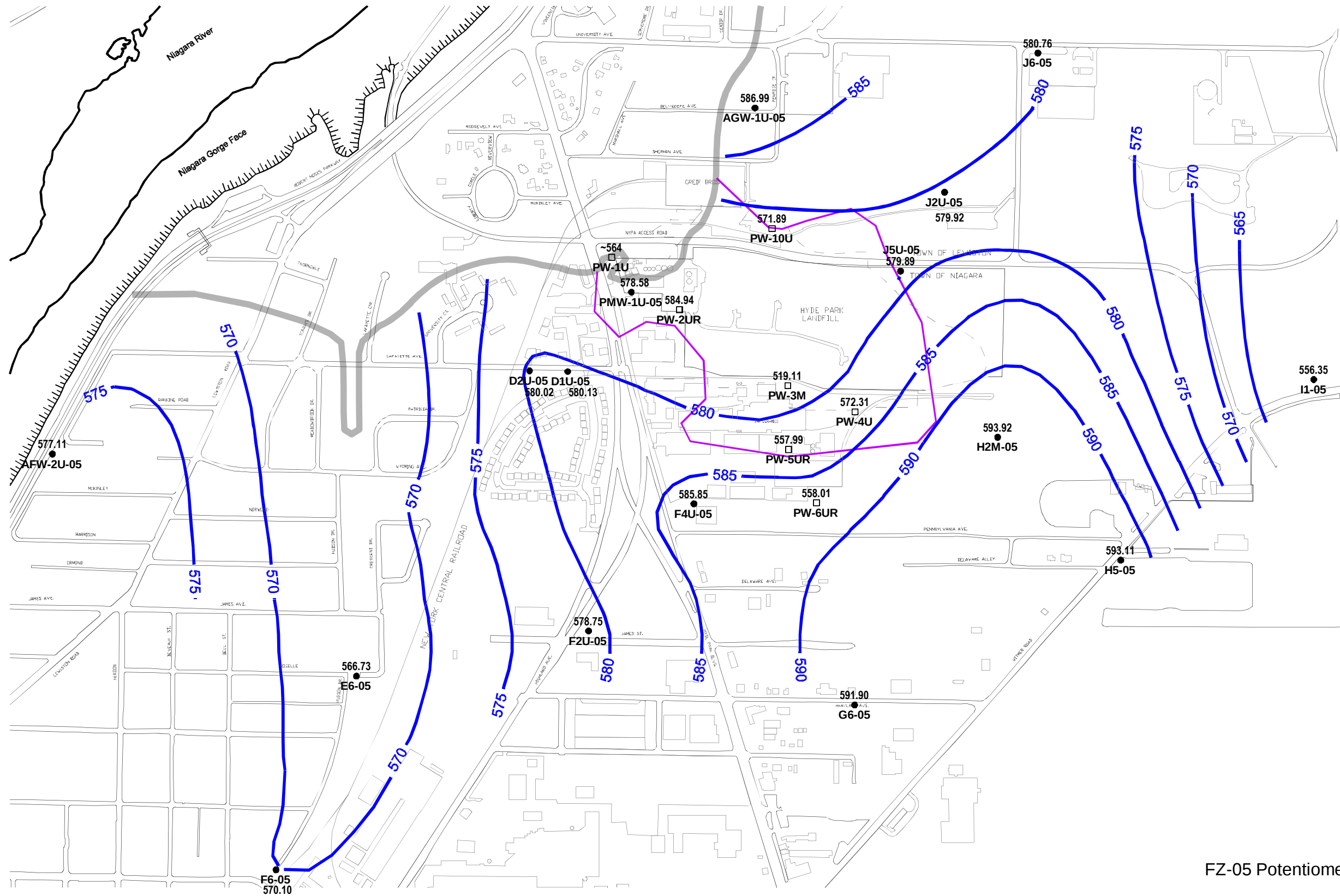


figure 3
 FZ-04 Potentiometric Surface March 2014
 1st Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.
 Niagara Falls, New York



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

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.

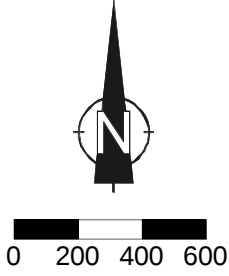
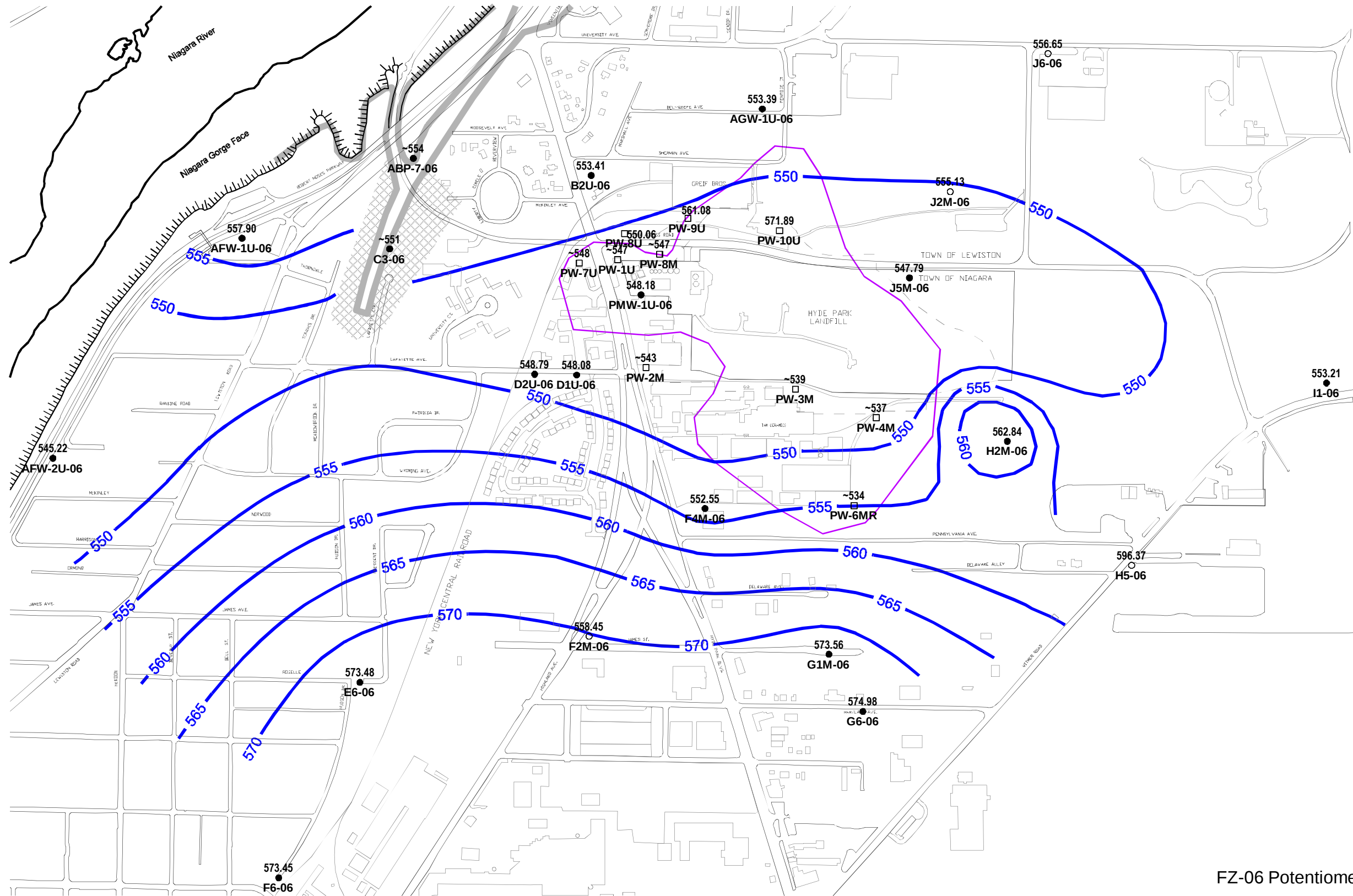


figure 4
 FZ-05 Potentiometric Surface March 2014
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 Glenn Springs Holdings, Inc.
 Niagara Falls, New York



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

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.

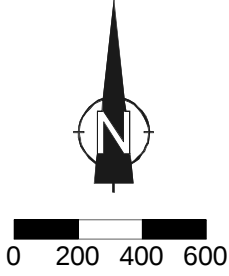
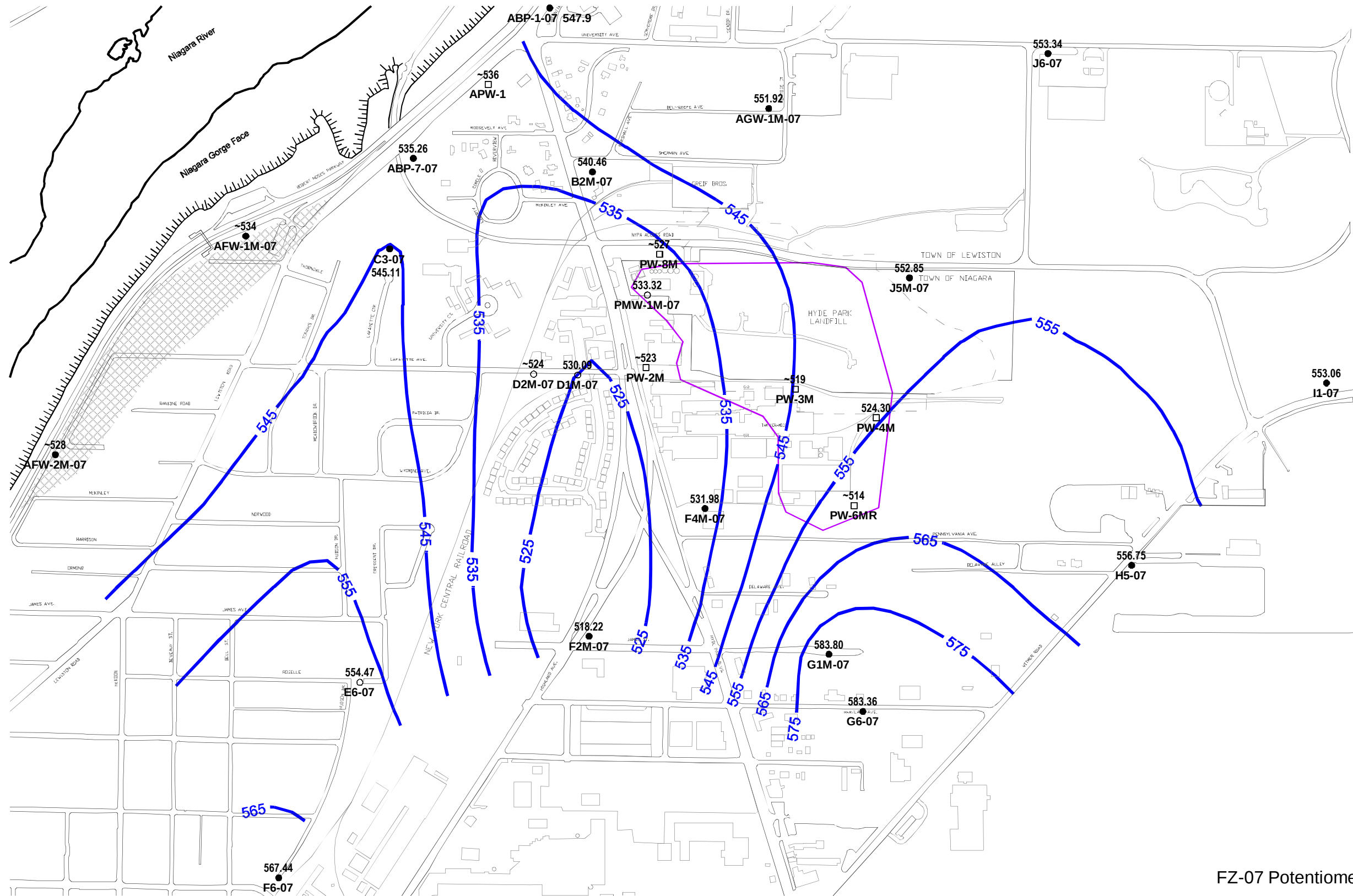


figure 5
 FZ-06 Potentiometric Surface March 2014
 1st Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.
 Niagara Falls, New York



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

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.

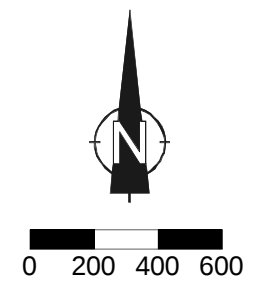
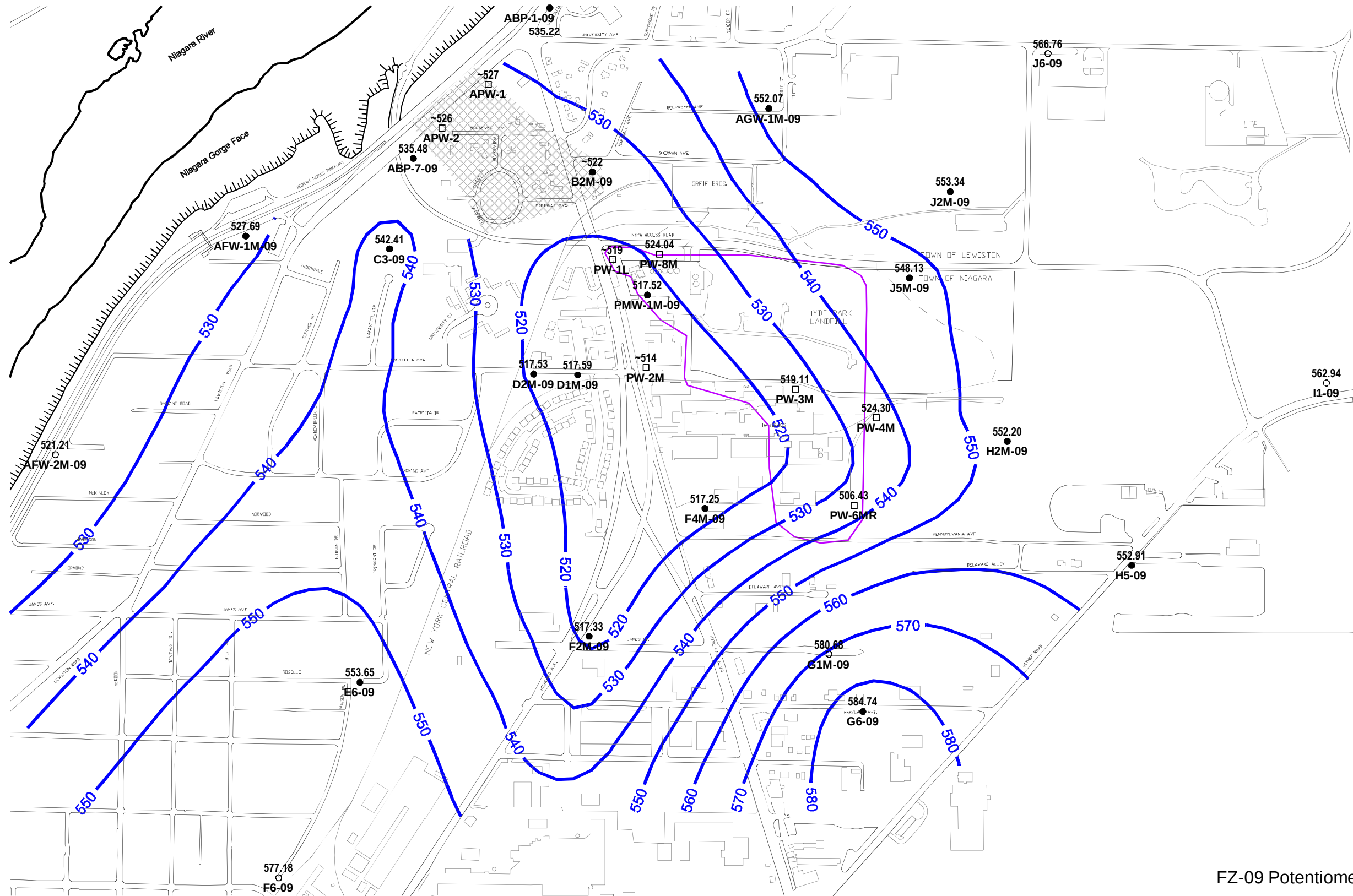


figure 6
 FZ-07 Potentiometric Surface March 2014
 1st Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.
 Niagara Falls, New York



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

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.

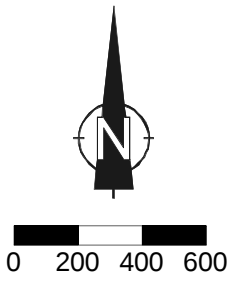


figure 7
 FZ-09 Potentiometric Surface March 2014
 1st Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.
 Niagara Falls, New York

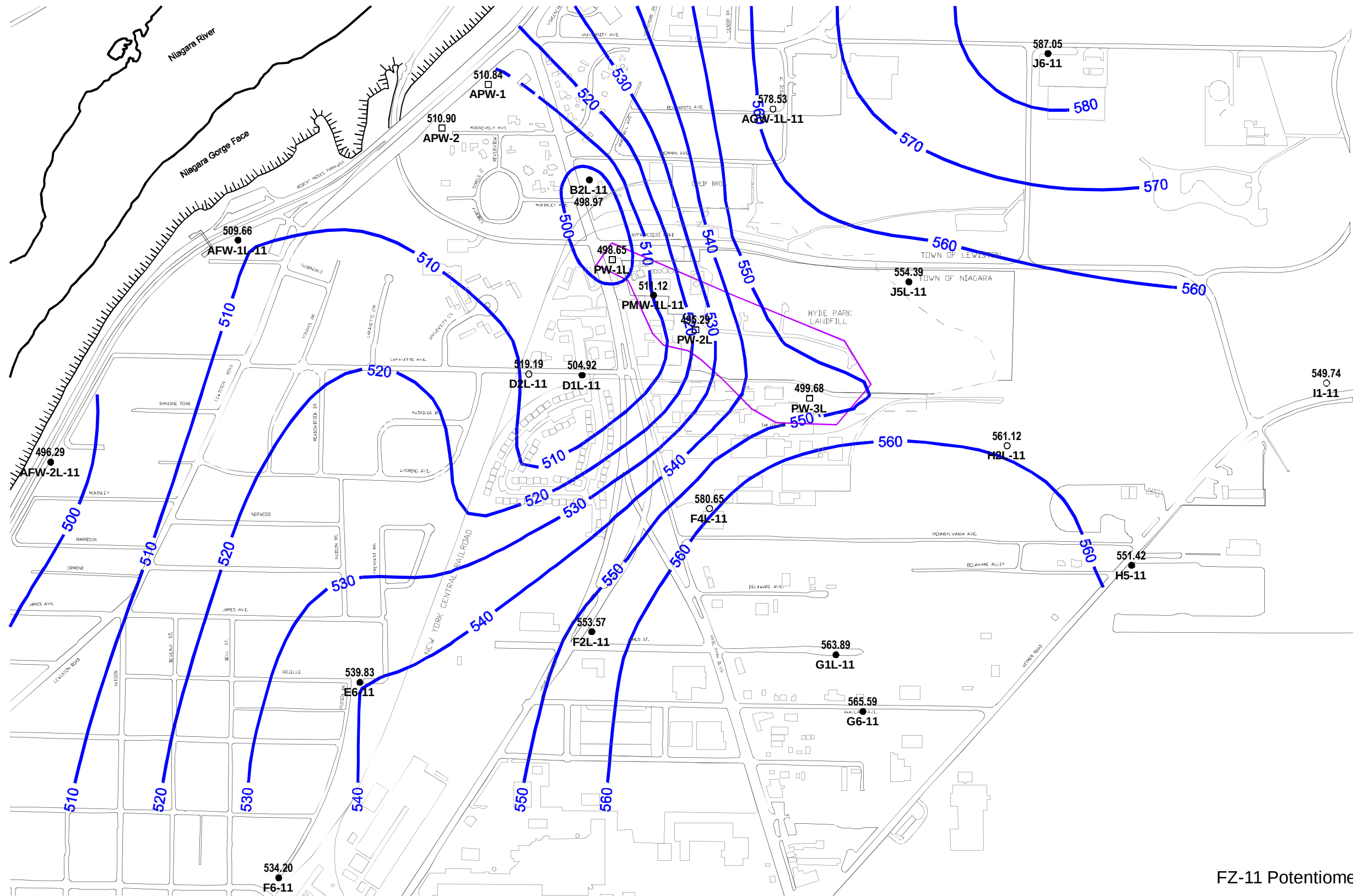
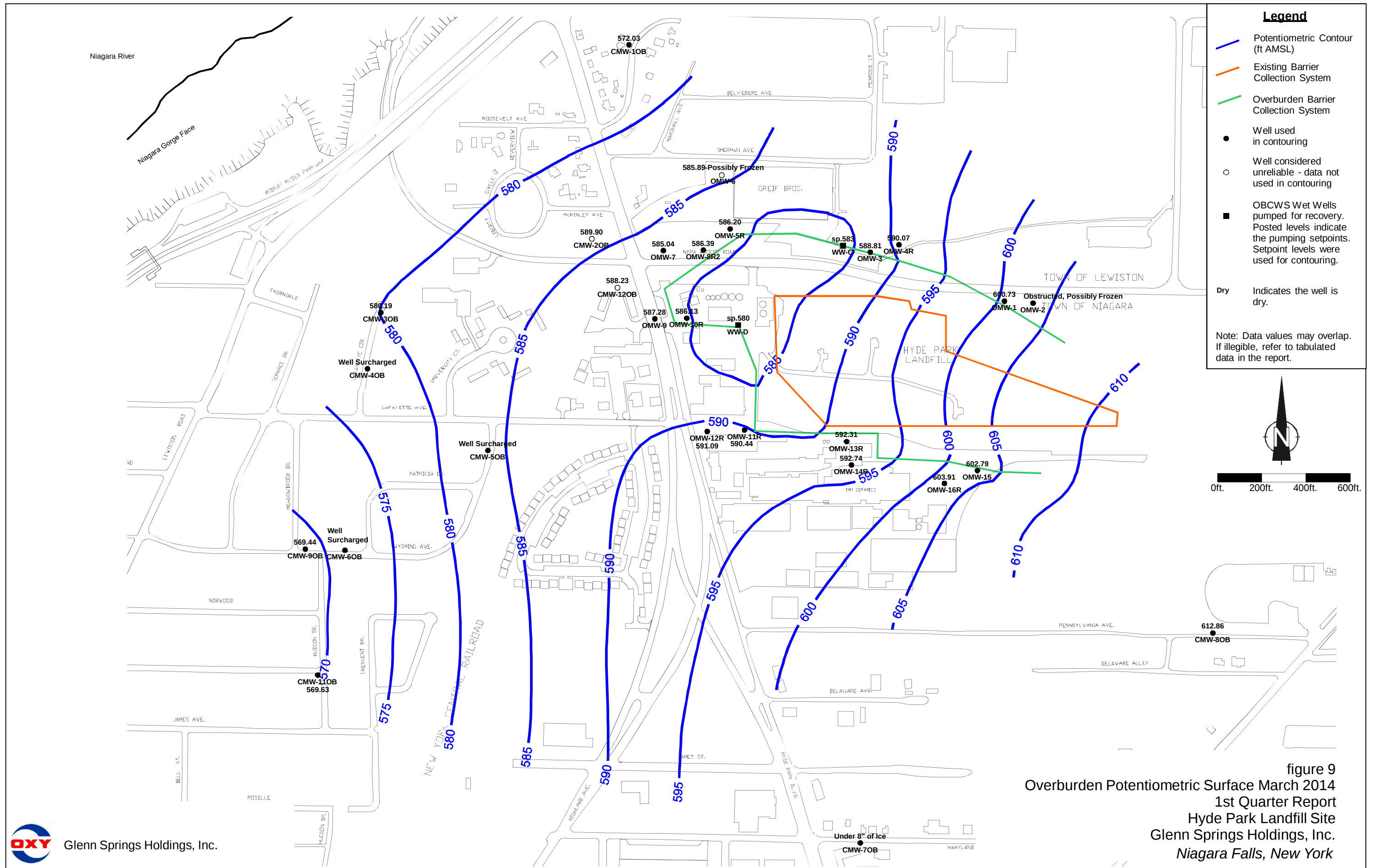


figure 8
FZ-11 Potentiometric Surface March 2014
1st Quarter Report
Hyde Park Landfill Site
Glenn Springs Holdings, Inc.
Niagara Falls, New York





Glenn Springs Holdings, Inc.

PMW-1M-09 1st Quarter 2014 - Hourly Water Level Elevation

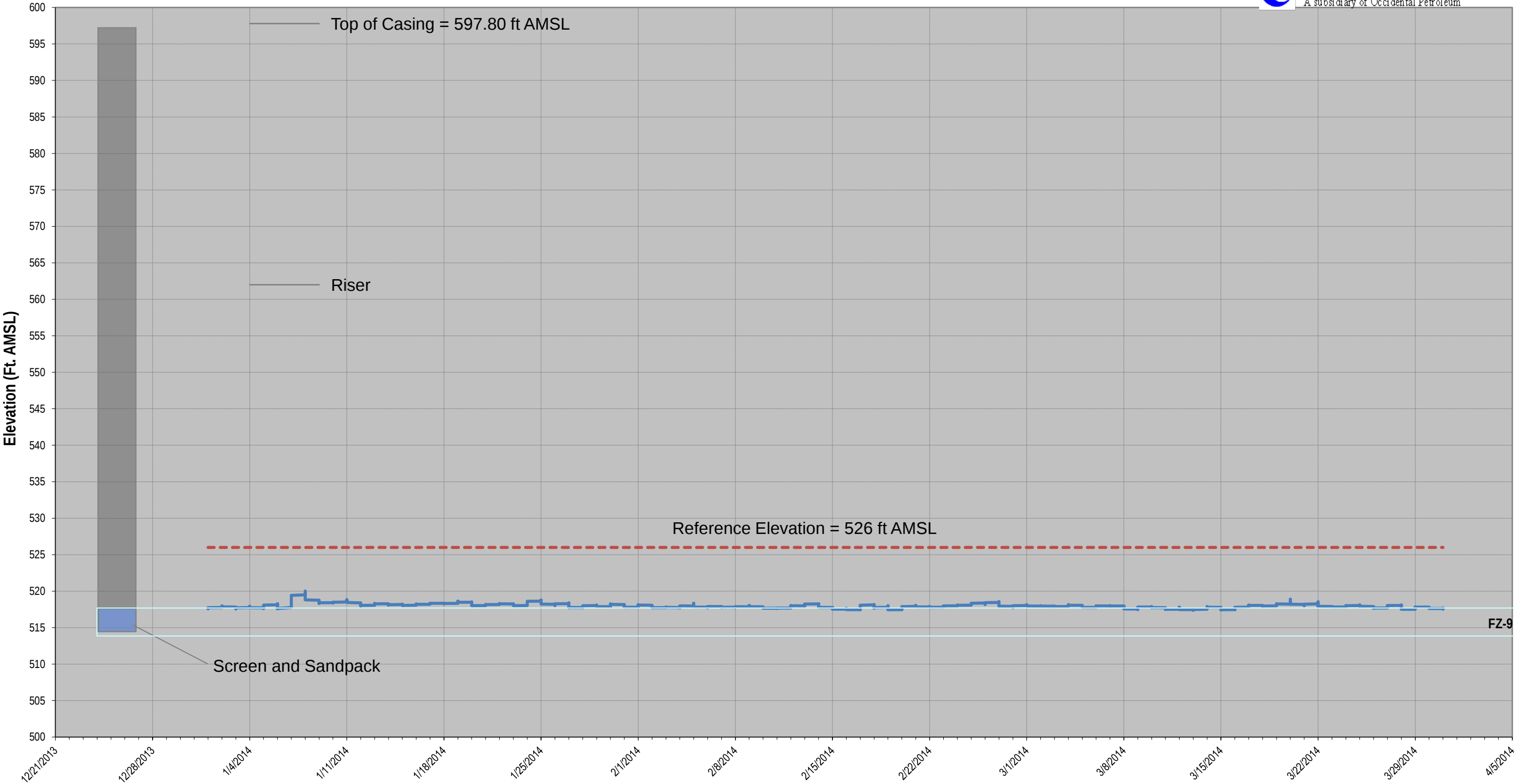


figure 10

**WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM
MARCH 11, 2014**

<i>Well</i>	<i>Reference Elevation (ft AMSL)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft AMSL)</i>
Overburden			
CMW-2OB	590.79	0.89	589.90
CMW-3OB	582.13	1.94	580.19
CMW-4OB	574.28	Surcharged	≥ 574.28
CMW-5OB	583.43	Surcharged	≥ 589.43
CMW-6OB	571.89	Surcharged	≥ 571.89
CMW-7OB	611.00	-	- ⁽¹⁾
CMW-8OB	616.11	3.25	612.86
CMW-9OB	571.76	2.32	569.44
CMW-10B	576.80	4.77	572.03
CMW-11OB	572.85	3.22	569.63
CMW-12OB	594.74	6.51	588.23
OMW-1	605.28	4.55	600.73
OMW-2	605.99	Dry	-
OMW-3	598.63	9.82	588.81
OMW-4R	601.17	11.10	590.07
OMW-5R	591.31	5.11	586.20
OMW-6	587.62	1.73	585.89
OMW-7	592.74	7.70	585.04
OMW-8R2	594.67	8.28	586.39
OMW-9	595.52	8.24	587.28
OMW-10R	595.13	9.00	586.13
OMW-11R	597.52	7.08	590.44
OMW-12R	597.20	6.11	591.09
OMW-13R	601.50	9.19	592.31
OMW-14R	599.64	6.90	592.74
OMW-15	607.48	4.69	602.79
OMW-16R	607.62	3.71	603.91
SC-2	625.61	29.30	596.31
SC-3	638.72	40.31	598.41
SC-4	639.35	38.37	600.98
SC-5	634.07	-	- ⁽²⁾
SC-6	631.15	18.78	612.37
Shallow Bedrock			
CMW-1SH	576.11	11.72	564.39
CMW-2SH	590.51	18.48	572.03
CMW-3SH	581.91	30.86	551.05
CMW-4SH	574.16	6.64	567.52
CMW-5SH	583.36	Surcharged	≥ 583.36
CMW-6SH	572.05	9.89	562.16
CMW-7SH	610.58	Surcharged	≥ 610.58
CMW-8SH	615.95	4.70	611.25
CMW-9SH	571.96	11.61	560.35
CMW-11SH	573.21	8.14	565.07
CMW-12SH	597.02	26.85	570.17

**WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM
MARCH 11, 2014**

<i>Well</i>	<i>Reference Elevation (ft AMSL)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft AMSL)</i>
Flow Zone 1			
G1U-01	617.08	13.63	603.45
G6-01	609.24	4.23	605.01
H2U-01	620.92	8.22	612.70
H5-01	617.61	21.00	596.61
I1-01	625.58	24.55	601.03
Flow Zone 2			
F2U-02	599.89	24.06	575.83
F4U-02	602.32	15.76	586.56
G1-02	616.86	24.11	592.75
G6-02	608.65	16.69	591.96
H2U-02	620.88	26.03	594.85
H5-02	617.47	22.64	594.83
I1-02	625.47	34.53	590.94
J2U-02	609.66	10.90	598.76
J5U-02	606.21	7.03	599.18
J6-02	609.23	10.88	598.35
Flow Zone 4			
AFW-2U-04	593.48	16.30	577.18
D1U-04	593.77	11.97	581.80
D2U-04	590.65	9.79	580.86
E6-04	578.23	13.19	565.04
F2U-04	599.76	21.28	578.48
F4U-04	602.19	15.49	586.70
F6-04	588.06	17.86	570.20
G1U-04	616.96	24.63	592.33
G6-04	609.15	16.85	592.30
H5-04	617.40	22.95	594.45
I1-04	625.30	36.46	588.84
J2U-04	609.42	14.18	595.24
J5U-04	606.05	18.54	587.51
J6-04	609.12	27.98	581.14
Flow Zone 5			
AFW-2U-05	593.33	16.22	577.11
AGW-1U-05	591.80	4.81	586.99
D1U-05	593.51	13.38	580.13
D2U-05	590.56	10.54	580.02
E6-05	578.04	11.31	566.73
F2U-05	599.64	20.89	578.75
F4U-05	602.06	16.21	585.85
F6-05	587.85	17.75	570.10
G6-05	609.13	17.23	591.90
H2M-05	621.59	27.67	593.92
H5-05	617.31	24.20	593.11
I1-05	625.25	68.90	556.35
J2U-05	609.30	29.38	579.92
J5U-05	605.87	25.98	579.89
J6-05	609.02	28.26	580.76
PMW-1U-05	598.00	19.42	578.58

**WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM
MARCH 11, 2014**

<i>Well</i>	<i>Reference Elevation (ft AMSL)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft AMSL)</i>
Flow Zone 6			
ABP-7-06	575.78	Dry	-
AFW-1U-06	571.83	13.93	557.90
AFW-2U-06	593.22	48.00	545.22
AGW-1U-06	591.66	38.27	553.39
B2U-06	589.29	35.88	553.41
C3-06	585.78	37.37	548.41
D1U-06	593.25	45.17	548.08
D2U-06	590.38	41.59	548.79
E6-06	577.99	4.51	573.48
F2M-06	599.06	40.61	558.45
F4M-06	602.05	49.50	552.55
F6-06	587.84	14.39	573.45
G1M-06	616.75	43.19	573.56
G6-06	609.09	34.11	574.98
H2M-06	621.42	58.58	562.84
H5-06	617.17	20.80	596.37
I1-06	625.15	71.94	553.21
J2M-06	608.94	53.81	555.13
J5M-06	606.22	58.43	547.79
J6-06	608.93	52.28	556.65
PMW-1U-06	597.92	49.74	548.18
Flow Zone 7			
ABP-1-07	576.44	28.54	547.90
ABP-7-07	575.73	40.47	535.26
AFW-1M-07	571.41	Dry	-
AFW-2M-07	593.44	66.76	526.68
AGW-1M-07	592.91	40.99	551.92
B2M-07	589.52	49.06	540.46
C3-07	585.62	40.51	545.11
D1M-07	594.15	64.06	530.09
D2M-07	590.77	67.54	523.23
E6-07	577.91	23.44	554.47
F2M-07	598.91	80.69	518.22
F4M-07	601.91	69.93	531.98
F6-07	587.68	20.24	567.44
G1M-07	616.68	32.88	583.80
G6-07	609.06	25.70	583.36
H5-07	617.05	60.30	556.75
I1-07	625.14	72.08	553.06
J5M-07	606.07	53.22	552.85
J6-07	608.85	55.51	553.34
PMW-1M-07	598.50	65.18	533.32

**WATER LEVEL ELEVATION SUMMARY
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM
MARCH 11, 2014**

<i>Well</i>	<i>Reference Elevation (ft AMSL)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft AMSL)</i>
Flow Zone 9			
ABP-1-09	575.49	40.27	535.22
ABP-7-09	575.67	40.19	535.48
AFW-1M-09	571.12	43.43	527.69
AFW-2M-09	593.32	72.11	521.21
AGW-1M-09	592.75	40.68	552.07
B2M-09	589.34	68.59	520.75
C3-09	585.00	42.59	542.41
D1M-09	594.02	76.43	517.59
D2M-09	590.66	73.13	517.53
E6-09	577.82	24.17	553.65
F2M-09	598.71	81.38	517.33
F4M-09	601.79	84.54	517.25
F6-09	587.53	10.35	577.18
G1M-09	616.58	35.90	580.68
G6-09	608.98	24.24	584.74
H2M-09	621.32	69.12	552.20
H5-09	616.93	64.02	552.91
I1-09	624.91	61.97	562.94
J2M-09	608.77	55.43	553.34
J5M-09	605.82	57.69	548.13
J6-09	608.76	42.00	566.76
PMW-1M-09	598.34	80.82	517.52
Flow Zone 11			
AFW-1L-11	572.10	62.44	509.66
AFW-2L-11	593.43	97.14	496.29
AGW-1L-11	592.71	14.18	578.53
B2L-11	589.65	90.68	498.97
D1L-11	593.80	88.88	504.92
D2L-11	590.21	71.02	519.19
E6-11	577.72	37.89	539.83
F2L-11	598.94	45.37	553.57
F4L-11	602.22	21.57	580.65
F6-11	587.40	53.20	534.20
G1L-11	616.84	52.95	563.89
G6-11	608.89	43.30	565.59
H2L-11	620.73	59.61	561.12
H5-11	616.81	65.39	551.42
I1-11	624.75	75.01	549.74
J5L-11	607.20	52.81	554.39
J6-11	608.68	21.63	587.05
PMW-1L-11	598.84	87.72	511.12

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FIRST QUARTER - 2014
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MARCH 11, 2014**

<i>Well</i>	<i>Reference Elevation (ft AMSL)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft AMSL)</i>
Purge Wells			
APW-1	564.98	-	515.90
APW-2	569.89	-	510.90
PW-1L	593.16	-	498.90
PW-1U	593.16	-	546.50
PW-2L	597.29	-	495.80
PW-2M	596.61	-	512.10
PW-2UR	594.75	-	589.30
PW-3L	599.05	-	500.90
PW-3M	597.79	-	518.60
PW-4M	606.93	-	524.30
PW-4U	604.85	-	573.90
PW-5UR	601.31	-	558.40
PW-6UMR	609.31	-	506.80
PW-6UR	608.47	-	556.50
PW-7U	592.47	-	543.50
PW-8M	592.67	-	524.00
PW-8U	589.27	-	550.10
PW-9U	587.47	-	561.30
PW-10U	593.54	-	572.20

Notes:

ft AMSL - Feet above mean sea level

Dry - No water present at the time of measurement

Surcharged - Well full of water to top of casing

- Not available/not applicable

⁽¹⁾ - Well inaccessible, covered in ice⁽²⁾ - Well obstructed, could not get measurement tape past 29.85 feet

**LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM**

<i>Effluent</i>				
<i>Date</i>	<i>Phenol (mg/L)</i>	<i>pH (su)</i>	<i>Flow (gal)</i>	<i>Comments</i>
01/01/14	-	-	-	
01/02/14	-	7.10	268,000	
01/03/14	-	-	-	
01/04/14	-	-	-	
01/05/14	-	-	-	
01/06/14	-	7.10	228,000	
01/07/14	-	-	-	
01/08/14	0.010 U	7.10	117,000	
01/09/14	-	6.80	418,000	
01/10/14	-	-	-	
01/11/14	-	-	-	
01/12/14	-	7.10	359,000	
01/13/14	-	7.10	111,000	
01/14/14	-	7.10	170,000	
01/15/14	0.010 U	7.00	124,000	
01/16/14	-	7.00	393,000	
01/17/14	-	-	-	
01/18/14	-	-	-	
01/19/14	-	-	-	
01/20/14	-	7.10	282,000	
01/21/14	-	7.20	267,000	
01/22/14	0.010 U	-	-	
01/23/14	-	7.10	131,000	
01/24/14	-	7.10	51,000	
01/25/14	-	-	-	
01/26/14	-	-	-	
01/27/14	-	7.10	121,000	
01/28/14	-	7.00	310,000	
01/29/14	0.0035 J	-	-	
01/30/14	-	7.00	29,000	
01/31/14	-	7.00	89,000	

**LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM**

<i>Effluent</i>				
<i>Date</i>	<i>Phenol (mg/L)</i>	<i>pH (su)</i>	<i>Flow (gal)</i>	<i>Comments</i>
02/01/14	-	-	-	
02/02/14	-	-	-	
02/03/14	-	7.60	126,000	
02/04/14	-	7.80	341,000	
02/05/14	0.0041 J	-	-	
02/06/14	-	7.70	109,000	
02/07/14	-	7.60	69,000	
02/08/14	-	-	-	
02/09/14	-	-	-	
02/10/14	-	8.20	128,000	
02/11/14	-	7.60	62,000	
02/12/14	0.010 U	7.10	94,000	
02/13/14	-	6.90	115,000	
02/14/14	-	-	-	
02/15/14	-	-	-	
02/16/14	-	-	-	
02/17/14	-	6.90	295,000	
02/18/14	-	7.10	70,000	
02/19/14	0.010 U	7.20	46,000	
02/20/14	-	7.80	100,000	
02/21/14	-	7.40	111,000	
02/22/14	-	-	-	
02/23/14	-	-	-	
02/24/14	-	7.10	423,000	
02/25/14	-	7.40	378,000	
02/26/14	0.010 U	7.10	64,000	
02/27/14	-	7.80	312,000	
02/28/14	-	7.90	47,000	

**LEACHATE TREATMENT SYSTEM DAILY EFFLUENT MONITORING DATA
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM**

<i>Effluent</i>				
<i>Date</i>	<i>Phenol (mg/L)</i>	<i>pH (su)</i>	<i>Flow (gal)</i>	<i>Comments</i>
03/01/14	-	-	-	
03/02/14	-	-	-	
03/03/14	-	7.90	406,000	
03/04/14	-	-	-	
03/05/14	0.010 U	7.90	62,000	
03/06/14	-	7.60	77,000	
03/07/14	-	-	-	
03/08/14	-	-	-	
03/09/14	-	-	-	
03/10/14	-	7.90	299,000	
03/11/14	-	8.40	109,000	
03/12/14	0.010 U	8.20	39,000	
03/13/14	-	8.20	363,000	
03/14/14	-	8.00	97,000	
03/15/14	-	-	-	
03/16/14	-	8.30	392,000	
03/17/14	-	7.40	106,000	
03/18/14	-	7.80	119,000	
03/19/14	0.010 U	7.40	95,000	
03/20/14	-	7.80	130,000	
03/21/14	-	7.80	436,000	
03/22/14	-	-	-	
03/23/14	-	-	-	
03/24/14	-	7.60	421,000	
03/25/14	-	7.80	88,000	
03/26/14	0.0067 J	7.60	117,000	
03/27/14	-	7.00	355,000	
03/28/14	-	-	-	
03/29/14	-	-	-	
03/30/14	-	-	-	
03/31/14	-	6.80	377,000	

Notes:

mg/L - Milligram per liter

su - Standard unit

gal - Gallons

- Not available

J - Estimated at associated value

U - Non-detect at associated value

TABLE 3

ANALYTICAL RESULTS SUMMARY
WEEKLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM

Effluent

<i>Parameter</i>	<i>Units</i>	<i>01/08/14</i>	<i>01/15/14</i>	<i>01/22/14</i>	<i>01/29/14</i>	<i>02/05/14</i>	<i>02/12/14</i>	<i>02/19/14</i>	<i>02/26/14</i>
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.75 J
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	0.17 J
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	0.69 J	1.0 U	1.0 U	0.64 J
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	1.0 U	0.32 J	0.39 J	0.35 J	0.25 J	0.25 J	0.27 J	2.0 U
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	0.81 J	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	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	38	46	46	52	38	54	51	43
Xylenes (total)	µg/L	3.0 U	3.0 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 - 2014
HYDE PARK RRT PROGRAM

Effluent

<i>Parameter</i>	<i>Units</i>	<i>03/05/14</i>	<i>03/12/14</i>	<i>03/19/14</i>	<i>03/26/14</i>
1,1,1-Trichloroethane	µg/L	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
1,1,2-Trichloroethane	µg/L	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
1,1-Dichloroethene	µg/L	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
1,2-Dichlorobenzene	µg/L	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
1,2-Dichloropropane	µg/L	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
1,4-Dichlorobenzene	µg/L	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
3-Chlorotoluene	µg/L	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
Benzene	µg/L	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
Bromoform	µg/L	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
Carbon disulfide	µg/L	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
Chlorobenzene	µg/L	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
Chloroform (Trichloromethane)	µg/L	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
cis-1,2-Dichloroethene	µg/L	0.24 J	1.0 U	1.0 U	0.27 J
cis-1,3-Dichloropropene	µg/L	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
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	0.28 J	1.0 U	0.27 J	1.0 U
m-Monochlorobenzotrifluoride	µg/L	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
p-Monochlorobenzotrifluoride	µg/L	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
Tetrachloroethene	µg/L	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
trans-1,2-Dichloroethene	µg/L	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
Trichloroethene	µg/L	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
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	48	51	43	51
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	15 U

Notes:

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

**ANALYTICAL RESULTS SUMMARY
QUARTERLY SAMPLING - LEACHATE TREATMENT SYSTEM
FIRST QUARTER - 2014
HYDE PARK RRT PROGRAM**

	<i>Sample Location:</i>	<i>EFFLUENT</i>
	<i>Sample ID:</i>	<i>HP31914EFF</i>
	<i>Sample Date:</i>	<i>3/19/2014</i>
<i>Parameters</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
Vinyl chloride	µg/L	43
<i>General Chemistry</i>		
Phosphorus	mg/L	0.089 J

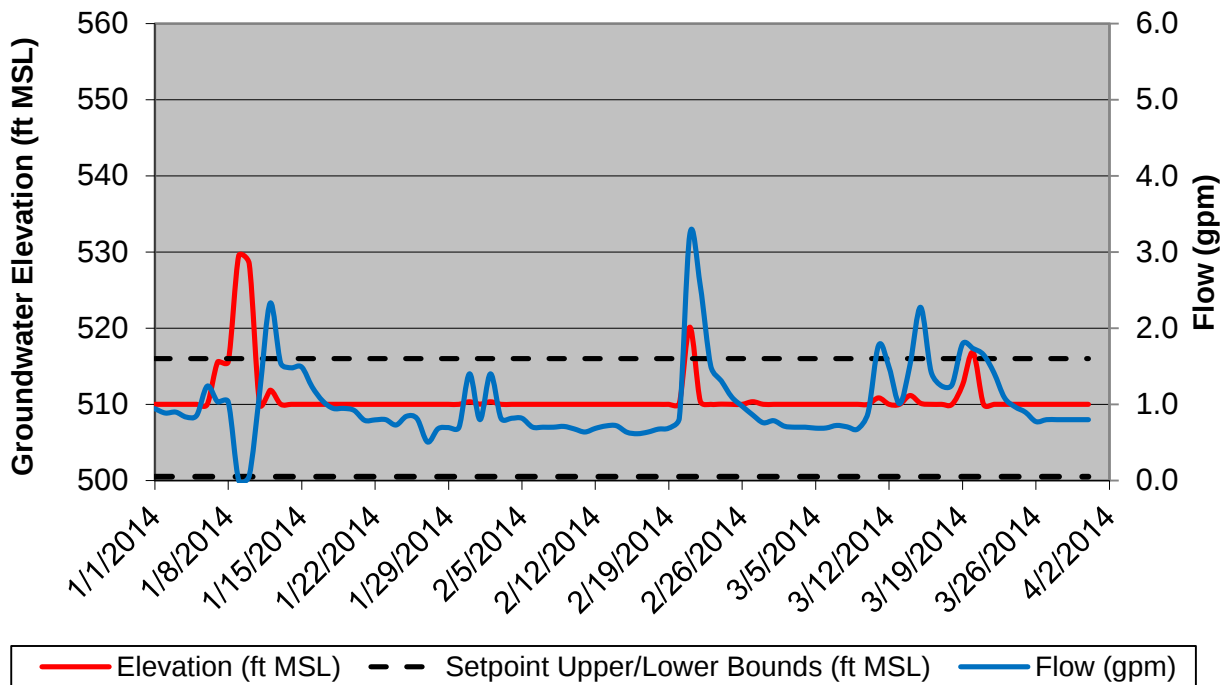
Notes:

mg/L - Milligrams per liter

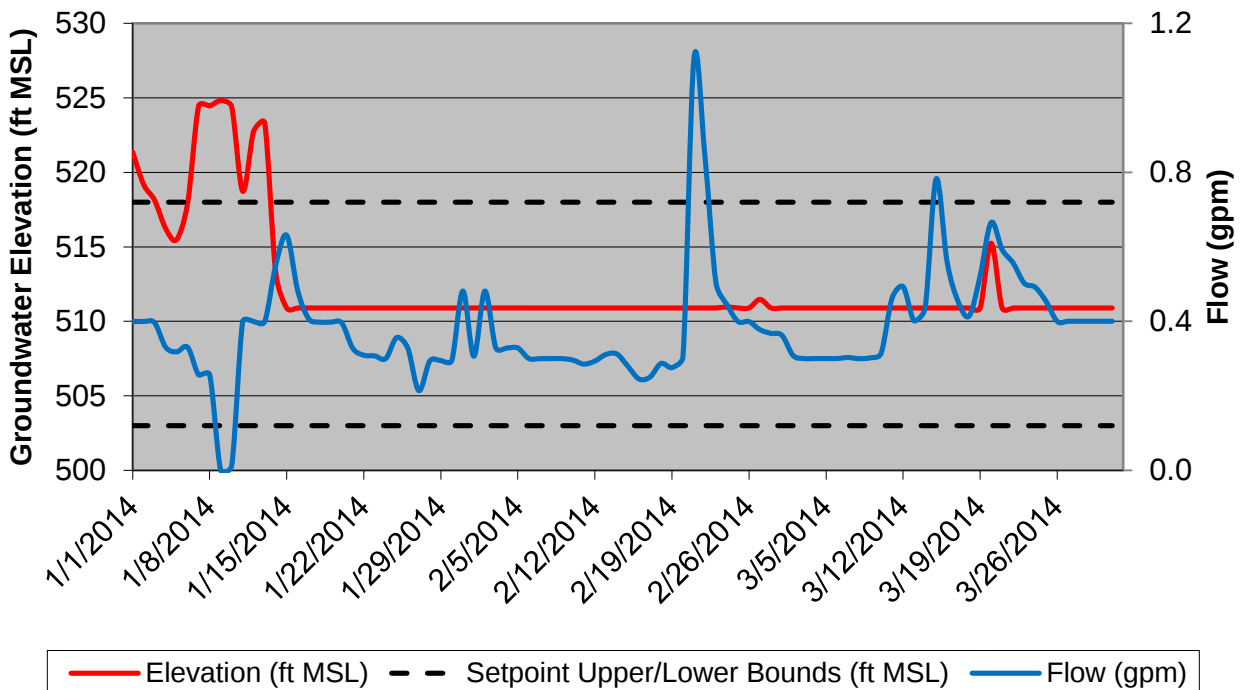
µg/L - Micrograms per liter

J - Estimated at associated value

Well APW-1

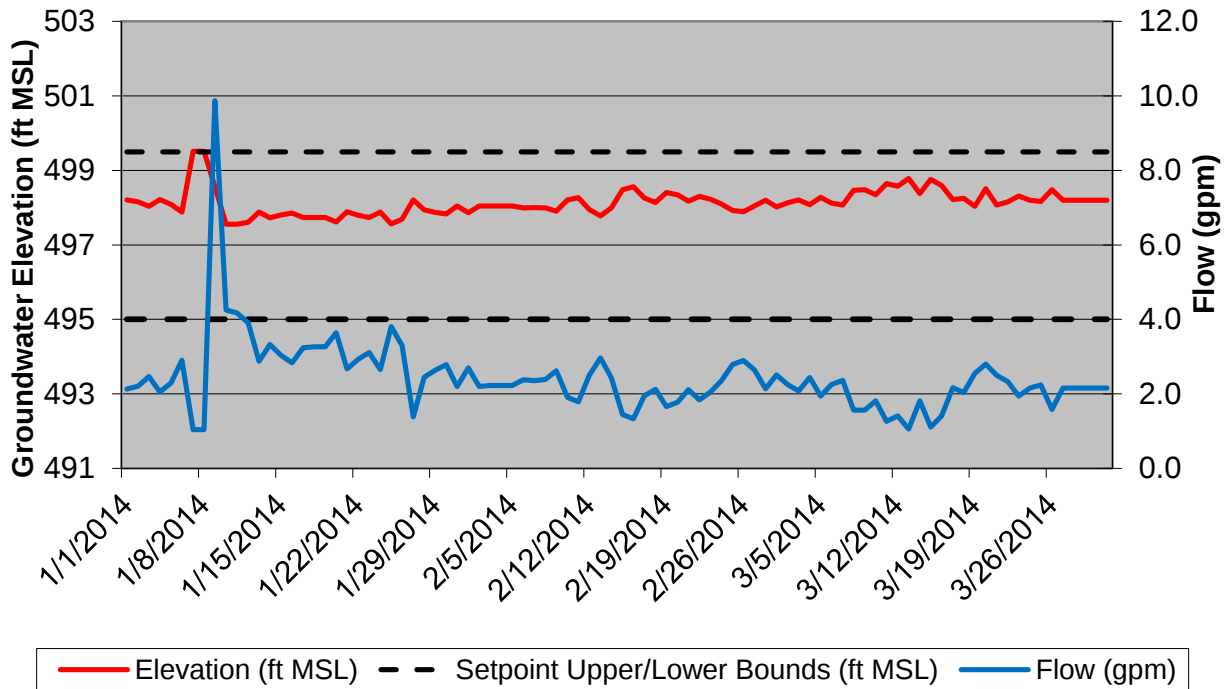


Well APW-2

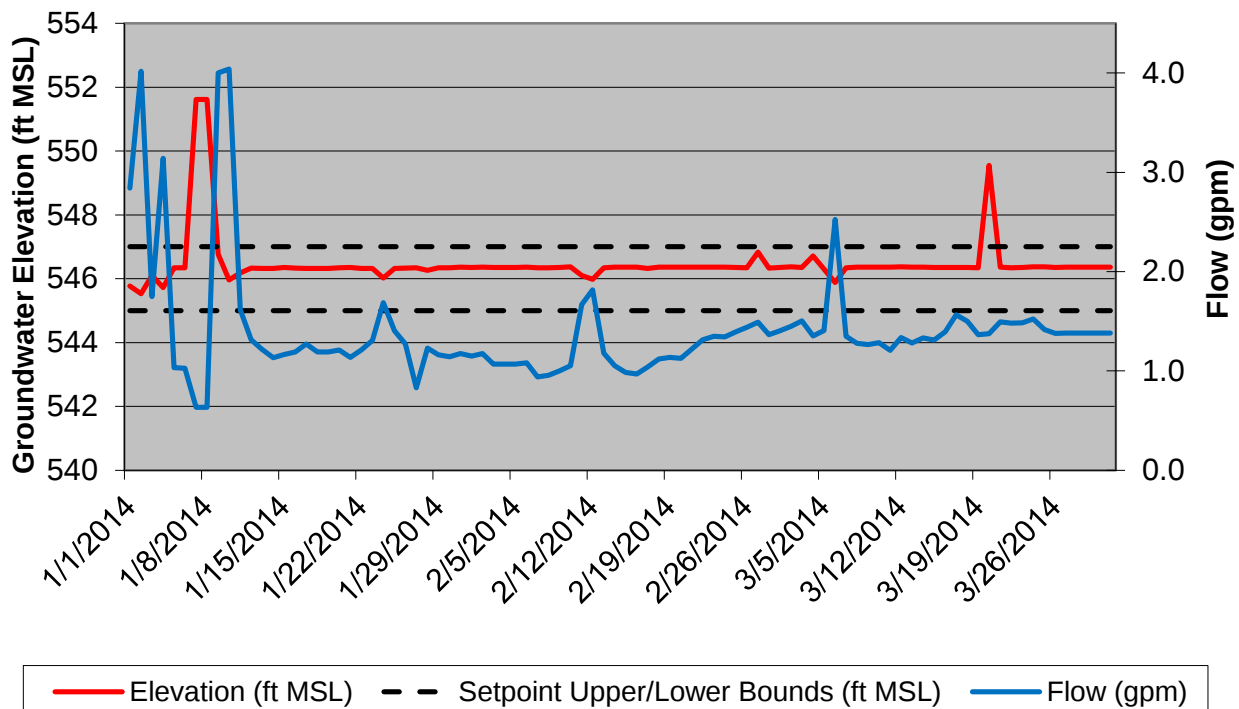


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-1L

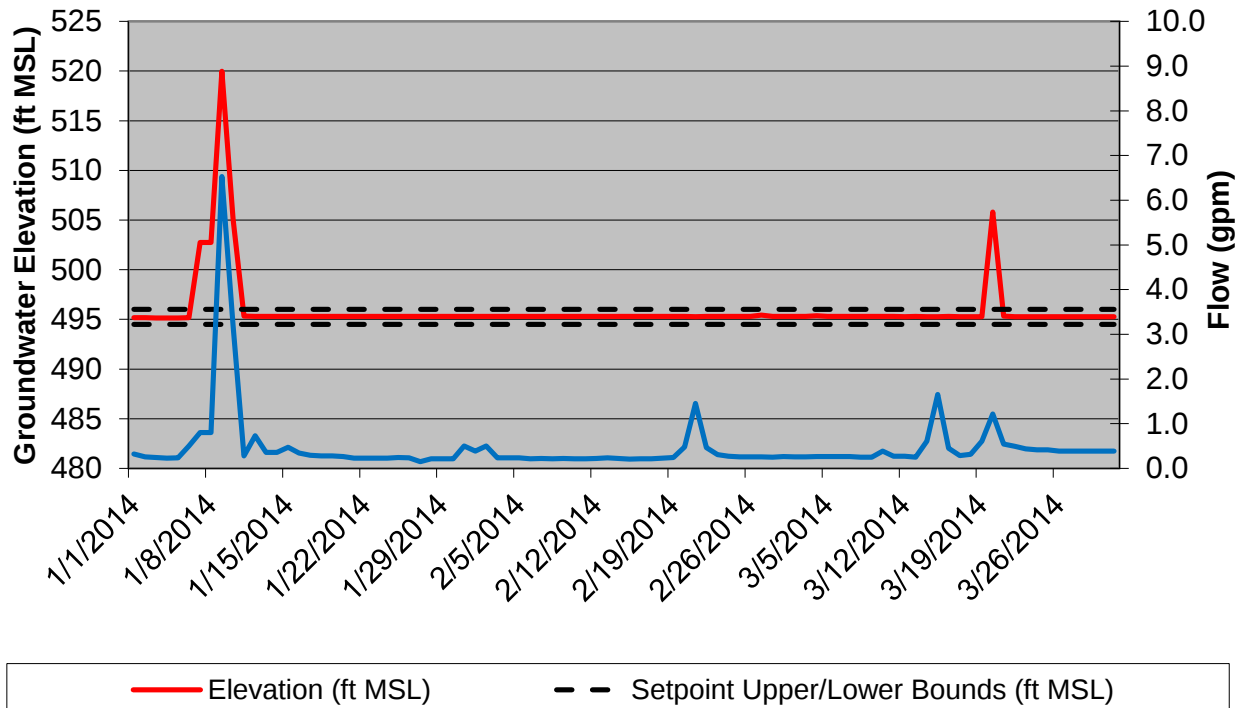


Well PW-1U

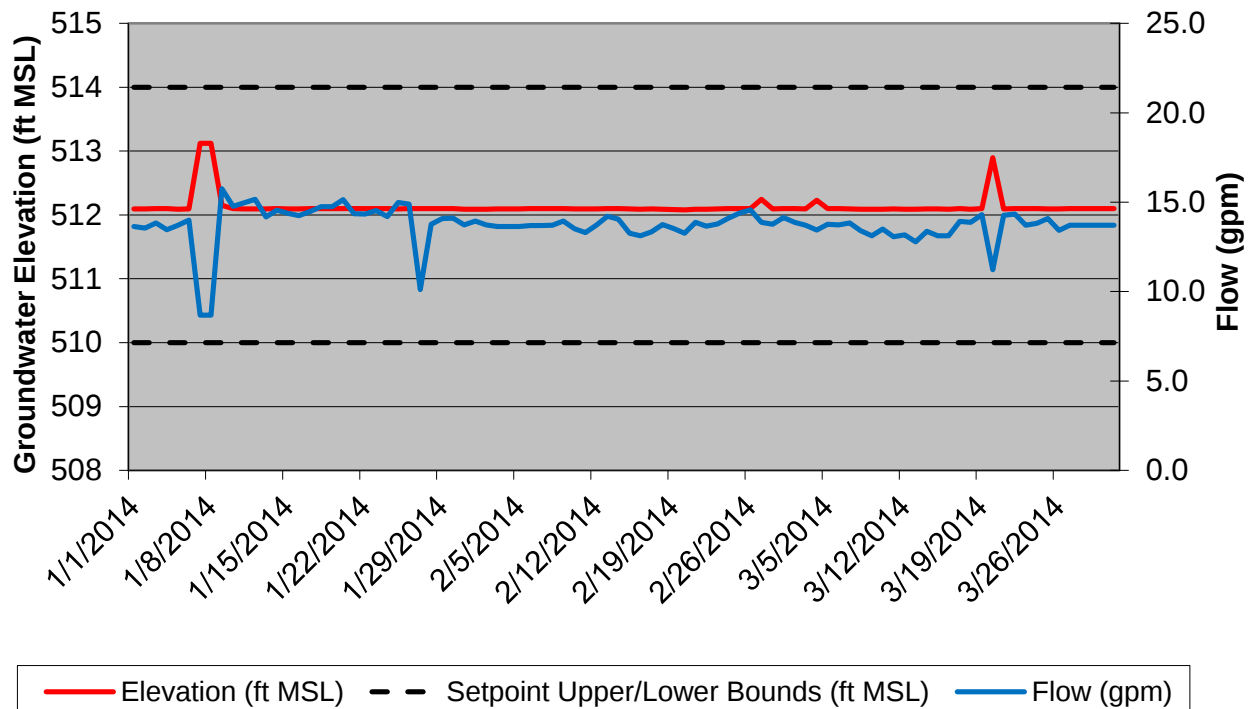


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-2L

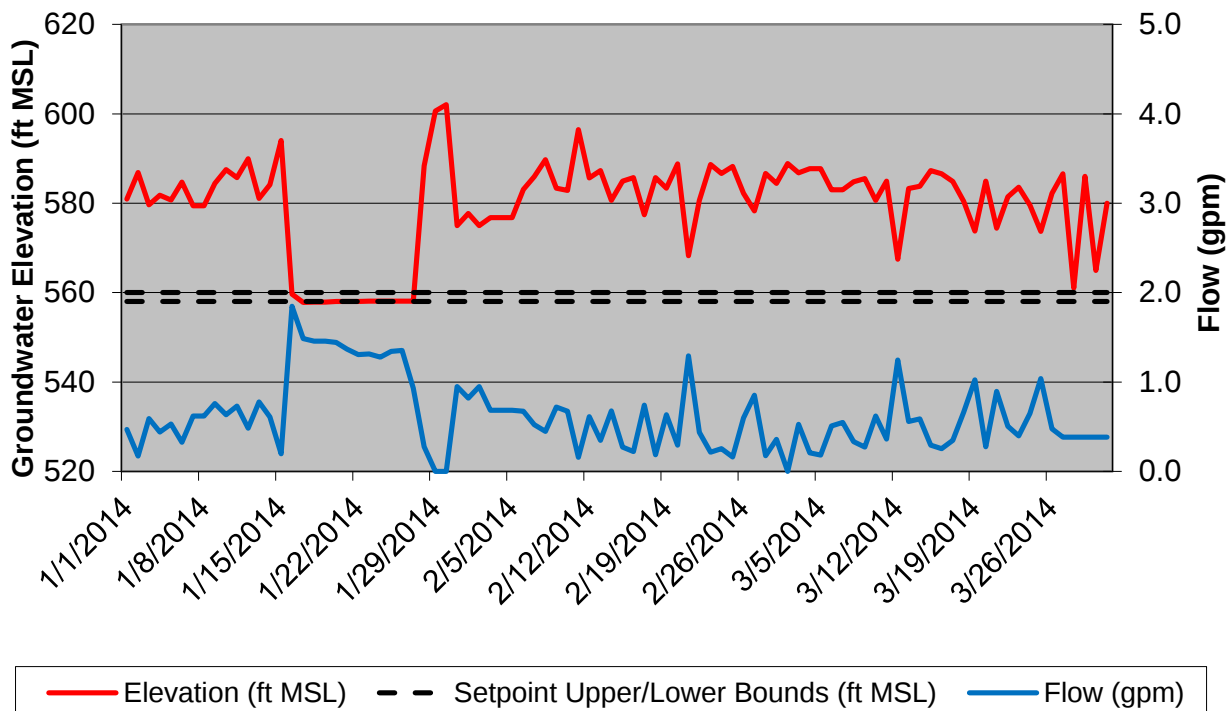


Well PW-2M

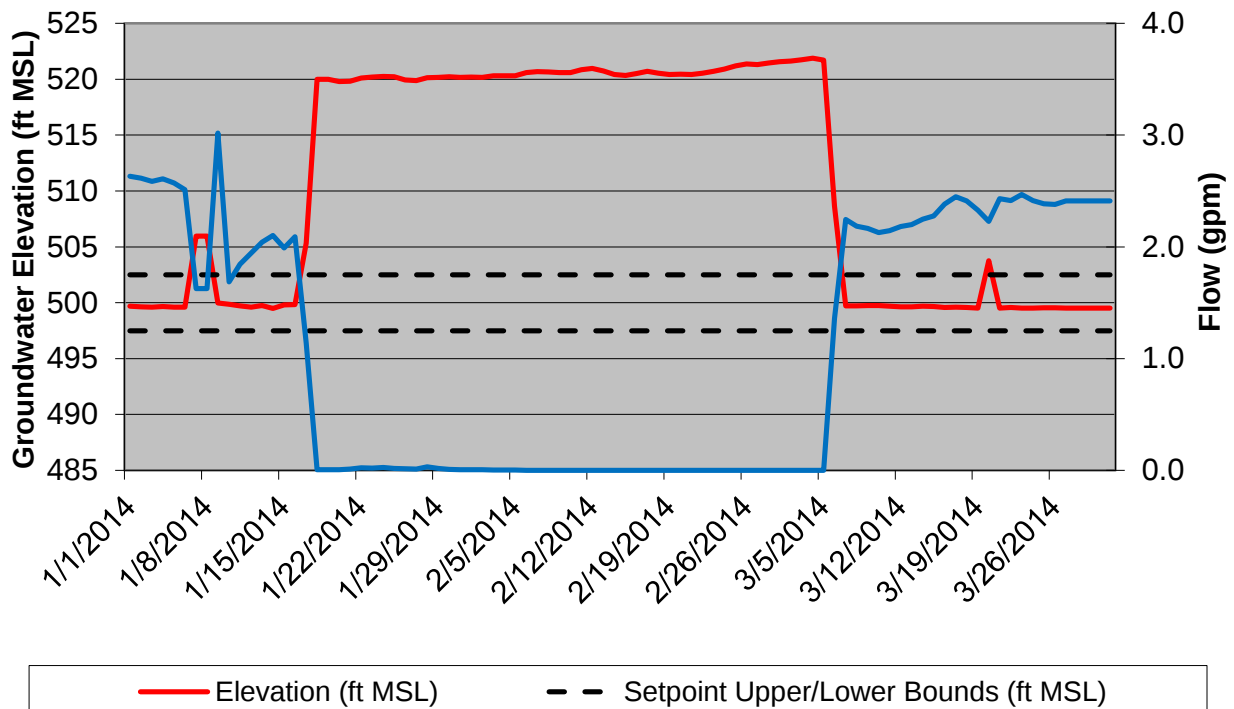


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-2UR

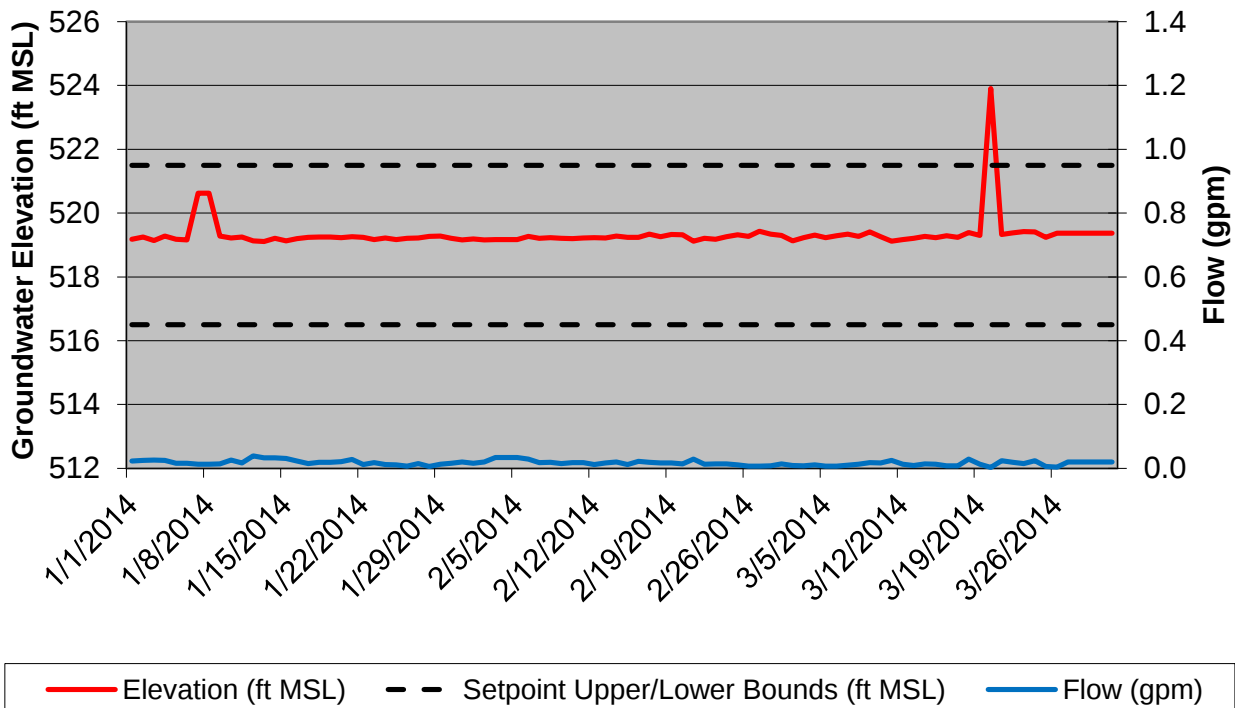


Well PW-3L

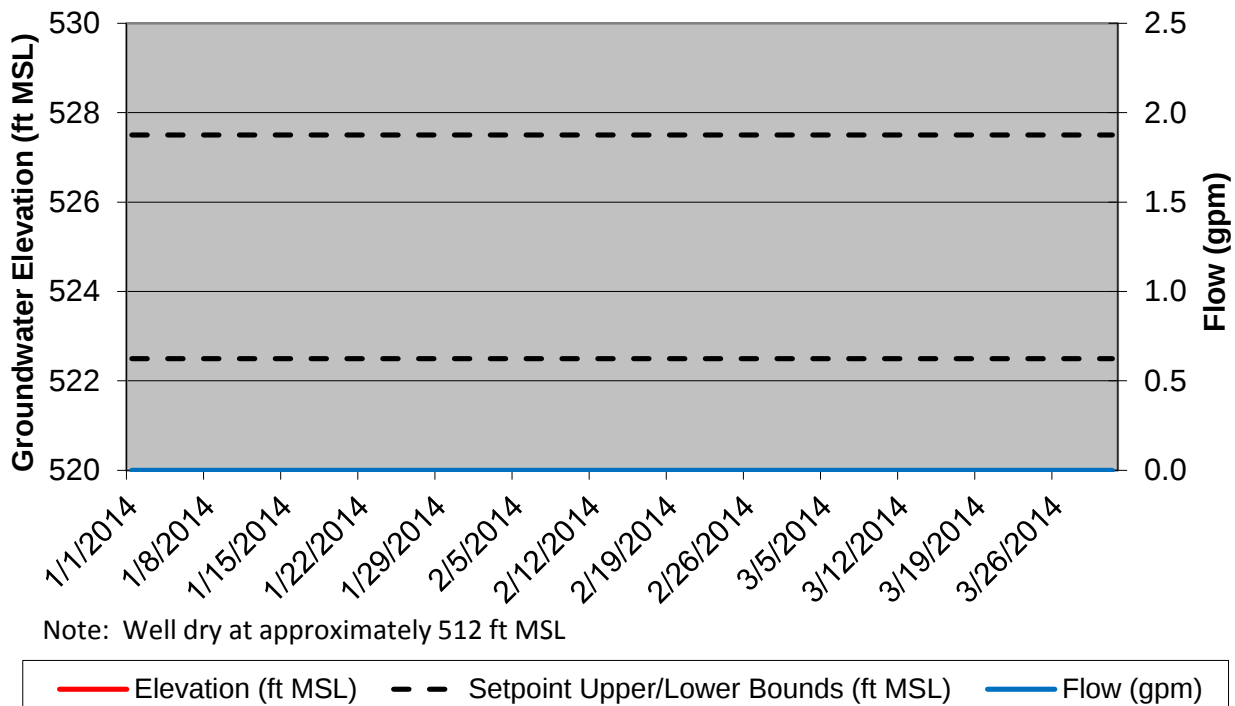


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-3M

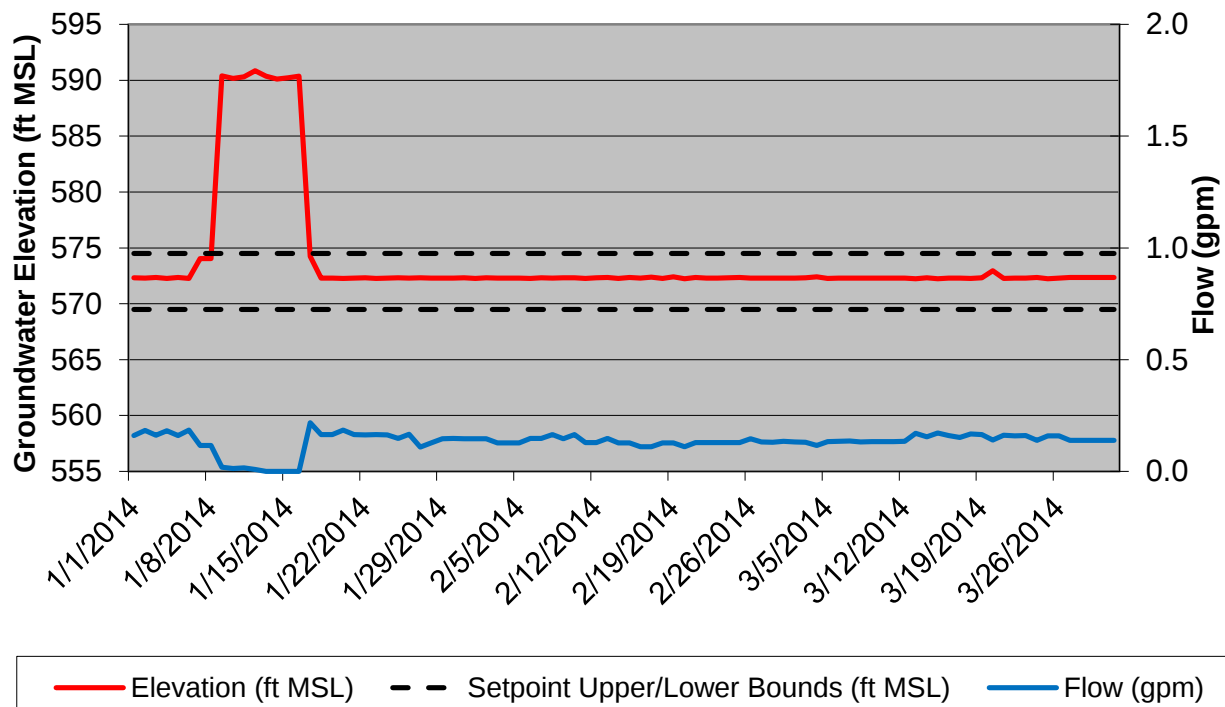


Well PW-4M

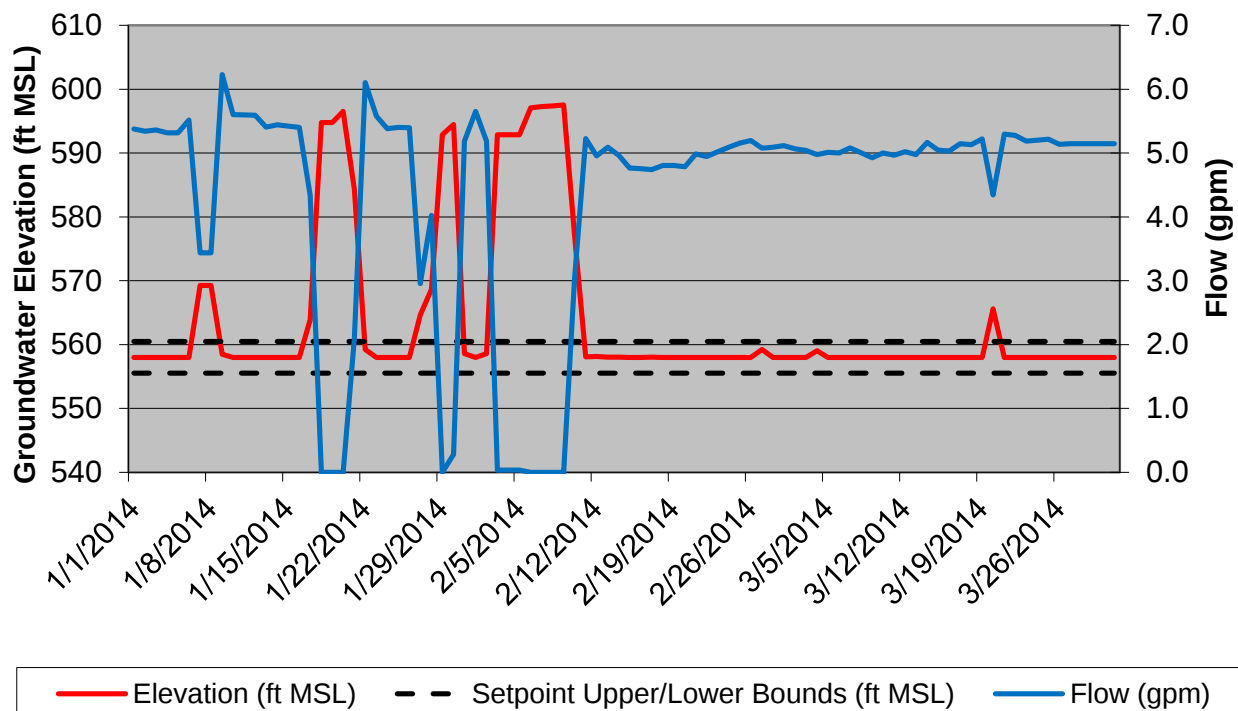


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

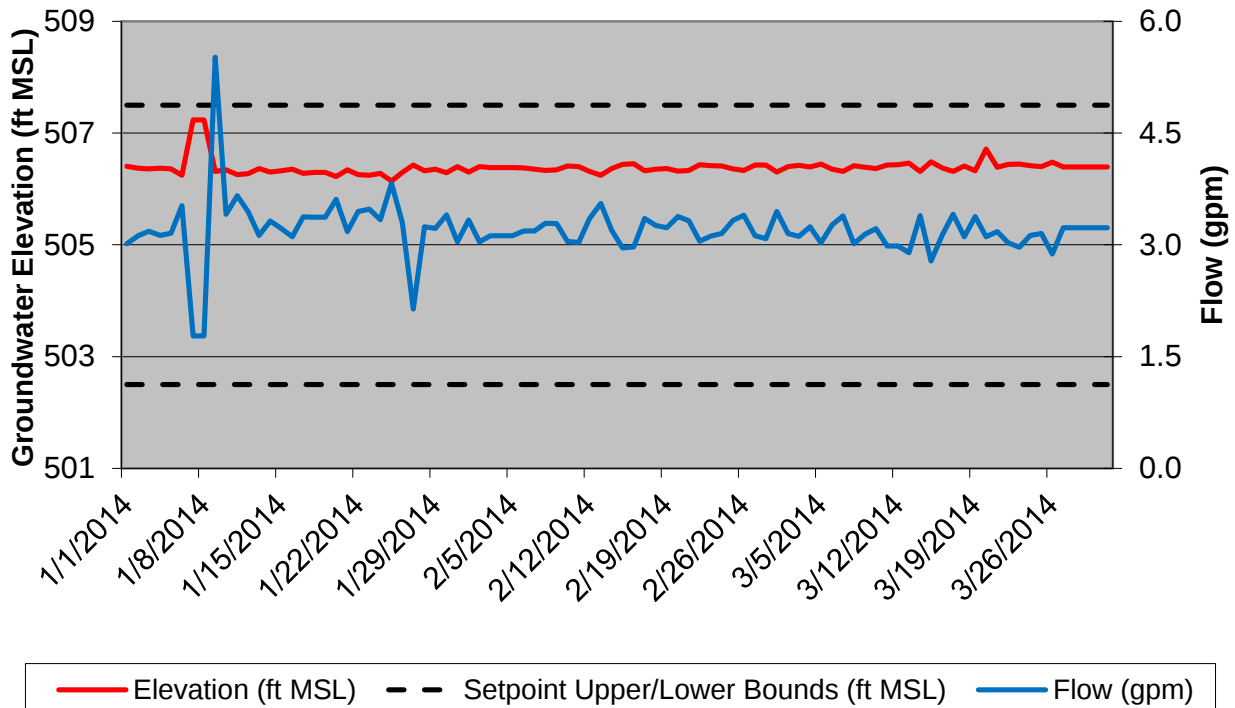
Well PW-4U



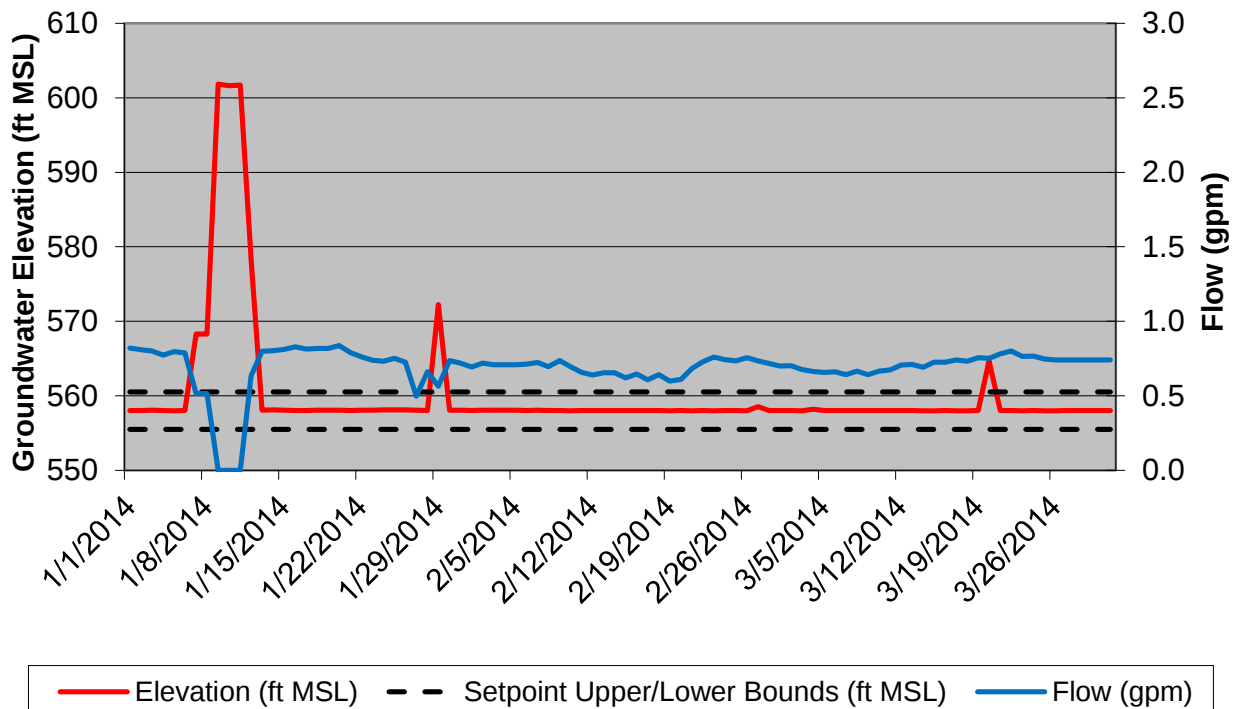
Well PW-5UR



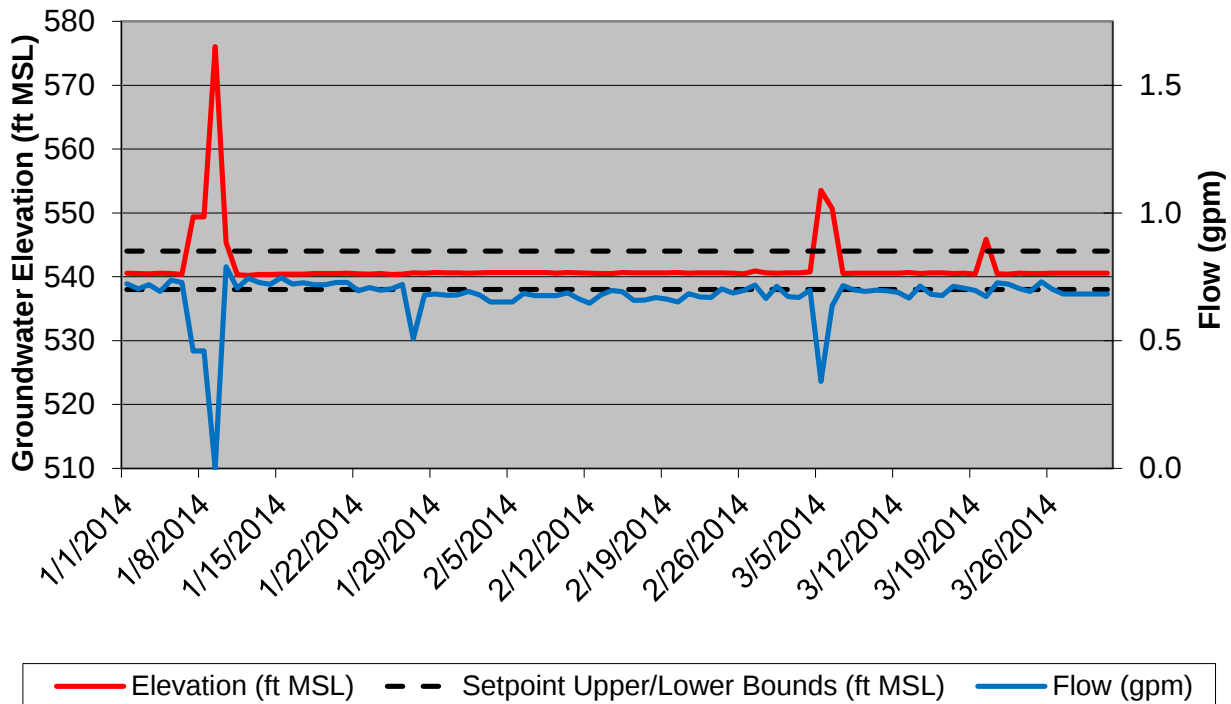
Well PW-6MR



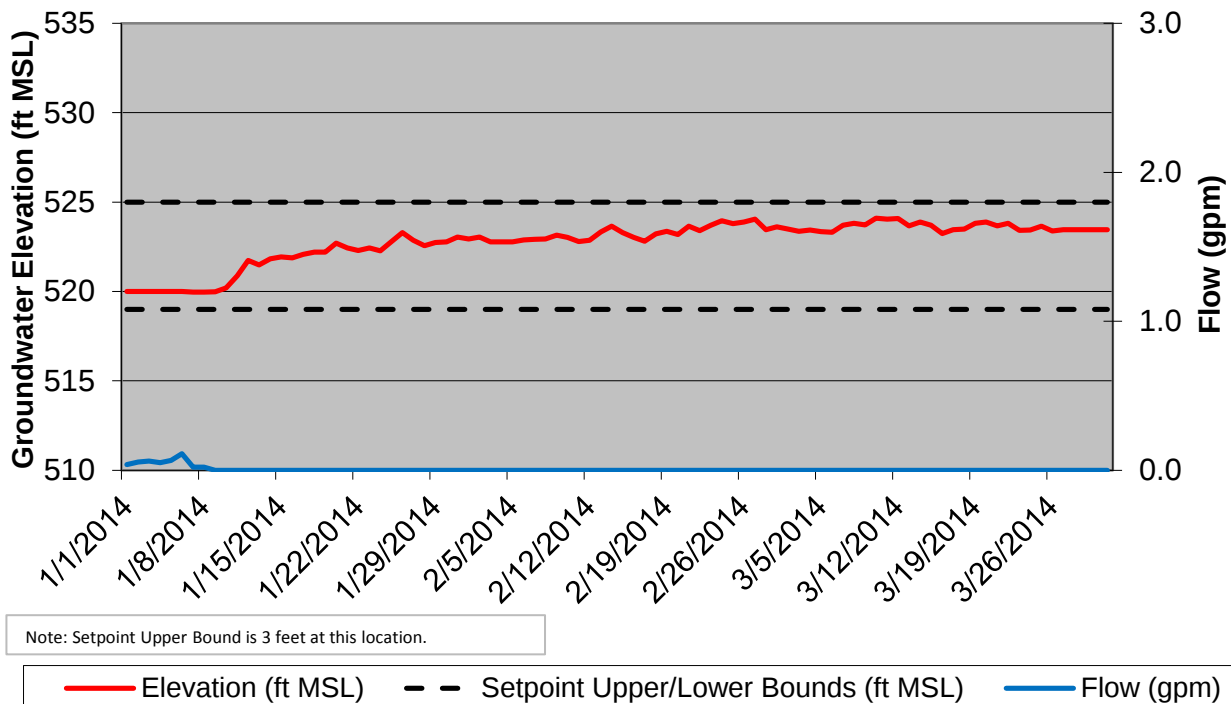
Well PW-6UR



Well PW-7U

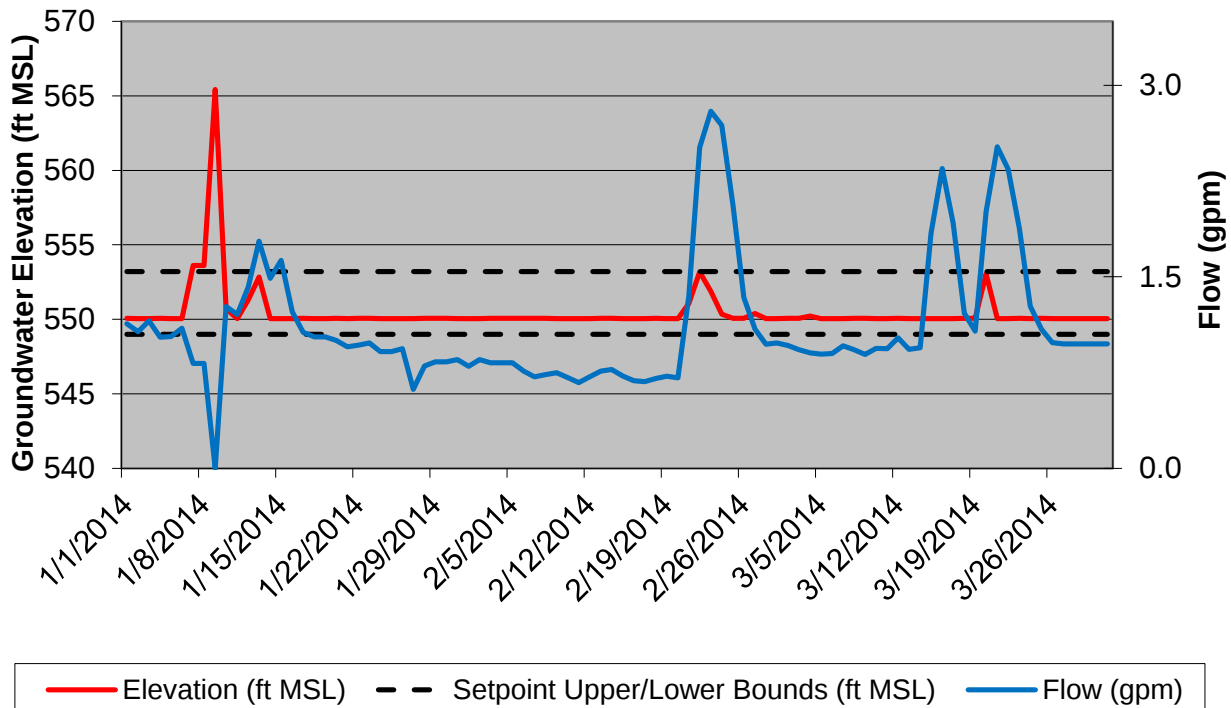


Well PW-8M

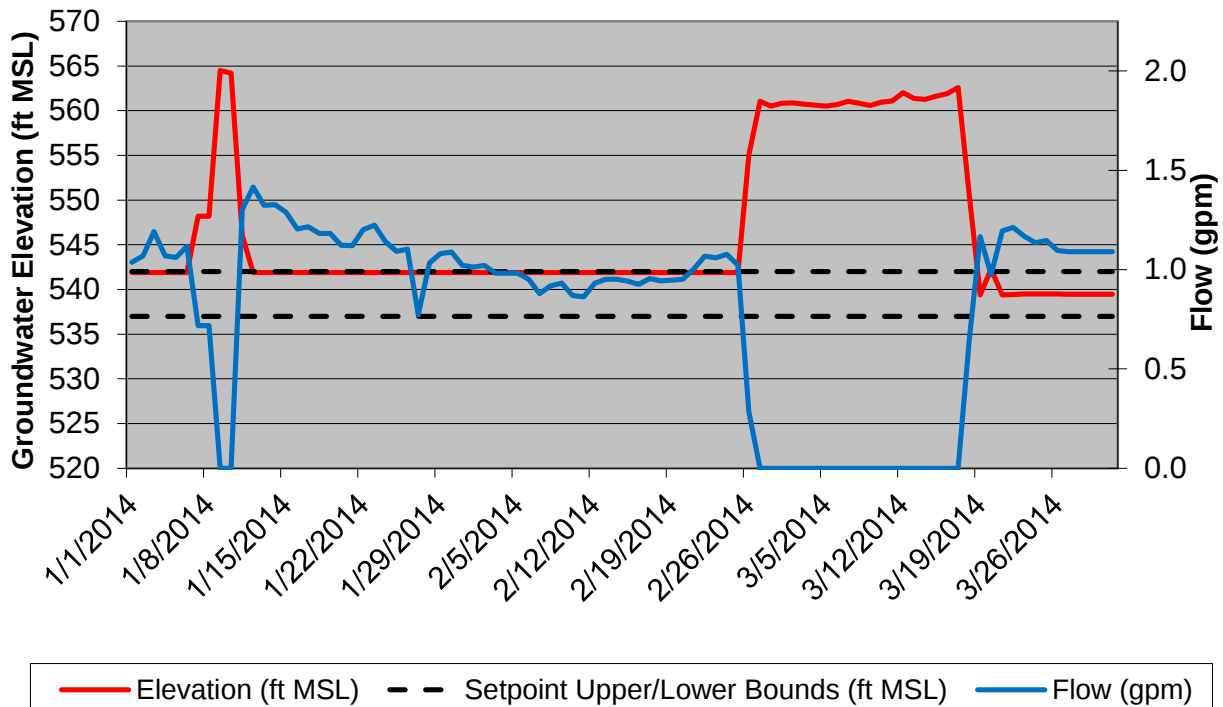


ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-8U



Well PW-9U



ATTACHMENT 1
FIRST QUARTER 2014 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

