



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

October 30, 2020

Reference No. 001069

Ms. Jaclyn Kondrk
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. Kondrk and Mr. Sadowski:

**Re: Quarterly Operations Report - Third Quarter 2020
Hyde Park Remedial Program
Bedrock and Overburden Monitoring Programs
NYSDEC Site No. 932021**

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 July 1, 2020 through September 30, 2020. A total of 3.23 million gallons of aqueous phase liquid (APL) were collected, treated, and discharged in compliance with the Site's City of Niagara Falls Publicly Owned Treatment Works (POTW) Significant Industrial Users (SIU) Wastewater Discharge Permit #49. One drum (approximately 500 pounds) of non-aqueous phase liquid (NAPL) and one drum (approximately 100 pounds) of personal protective equipment (PPE) were shipped for disposal this 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 A: Purge well performance graphs indicating daily level and flow information

The pumping wells were operational and functioning as designed during the third quarter 2020. 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 setpoint range defined in the Operation & Maintenance Manual. The following minor operational and setpoint issues were investigated and resolved during the third quarter of 2020:

- The water levels in the following wells exceeded setpoint range due to a false leak detection:
 - PW-1U exceeded setpoint range on July 3 and returned to within setpoint range on July 4.

- 2 -

- PW-2UR, PW-3L, and PW-6UR exceeded setpoint range from July 3 through July 5 and returned to within setpoint range on July 6.
- PW-2L exceeded setpoint range on July 4 and July 5 and returned to within setpoint range on July 6.
- The water level in PW-5UR exceeded setpoint range from July 3 through August 19 as the pump was off awaiting repairs. The pump was repaired on August 20 and the water level returned to within setpoint range.
- The water level in PW-4U exceeded setpoint range on several dates in July, August, and September due to an intermittent level signal and bad quality alarm. The pump was reset and the water level subsequently returned to within setpoint range after each reset.
- The water level in PW-1U exceeded setpoint range on September 18 and September 21 due to a potential pump issue and returned to within setpoint range on September 19 and September 22, respectively. The potential issue will be investigated and corrective action implemented as necessary.

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.

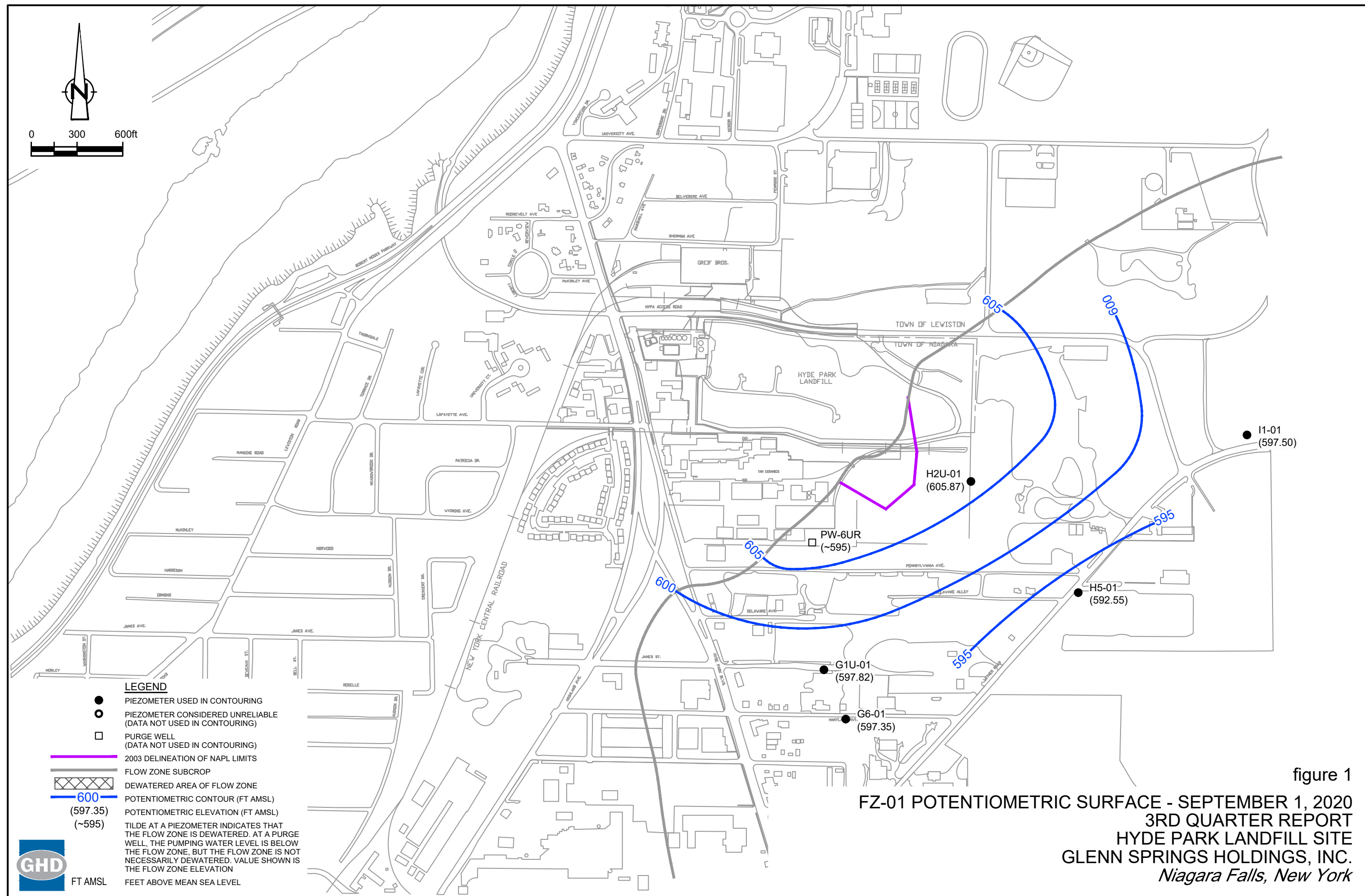


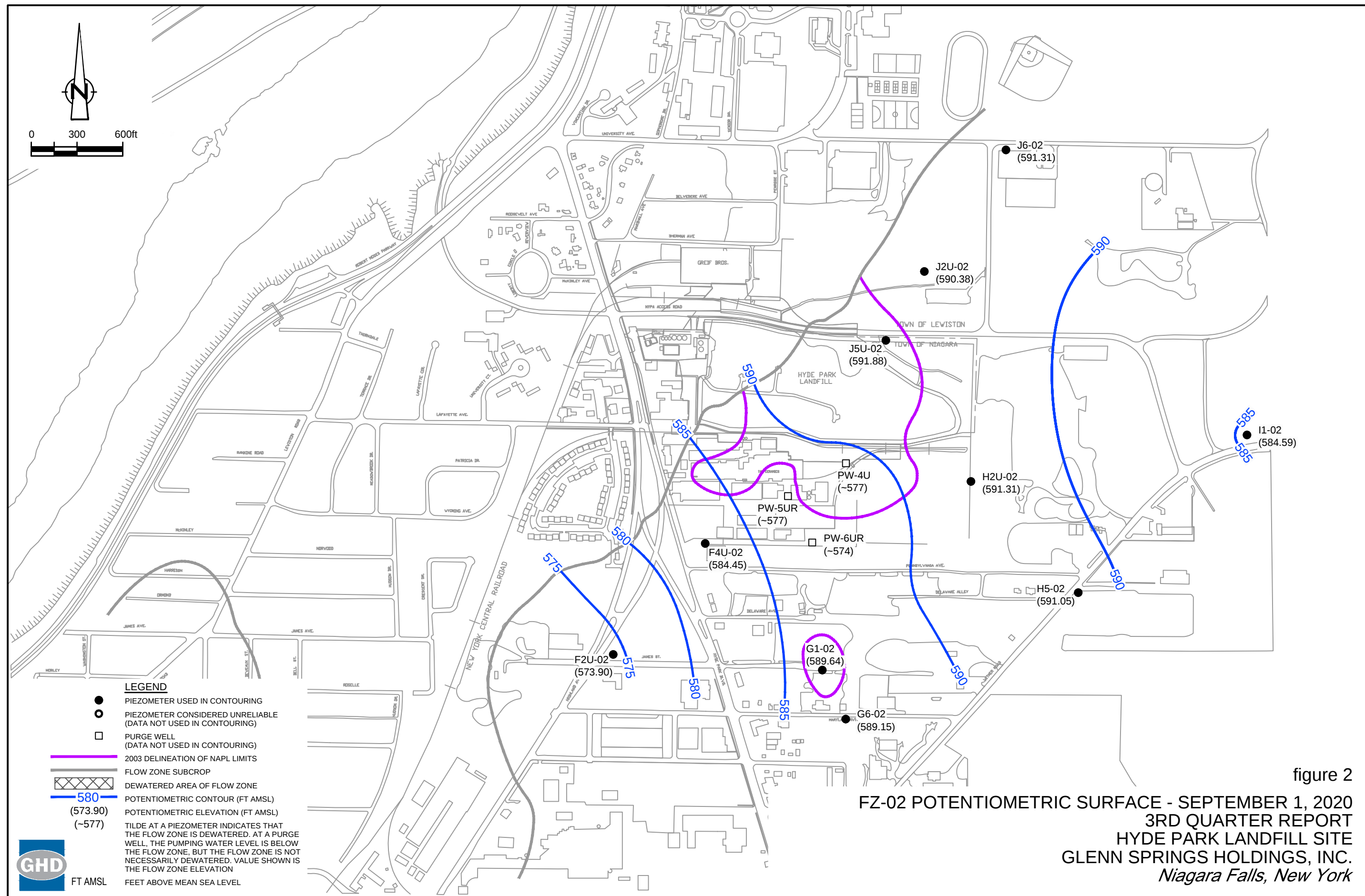
Joe Branch
Project Manager
231-670-6809 Cell

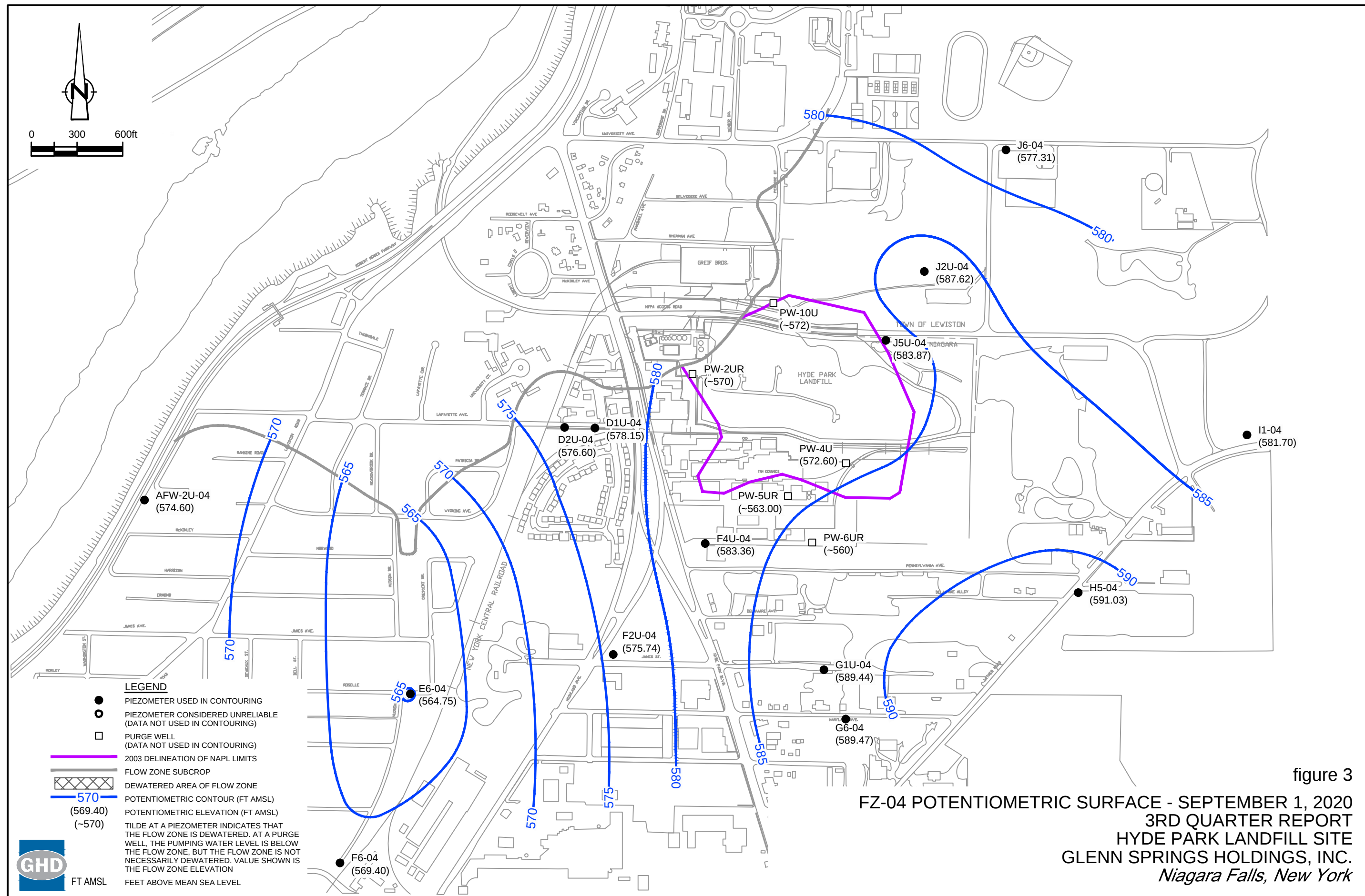
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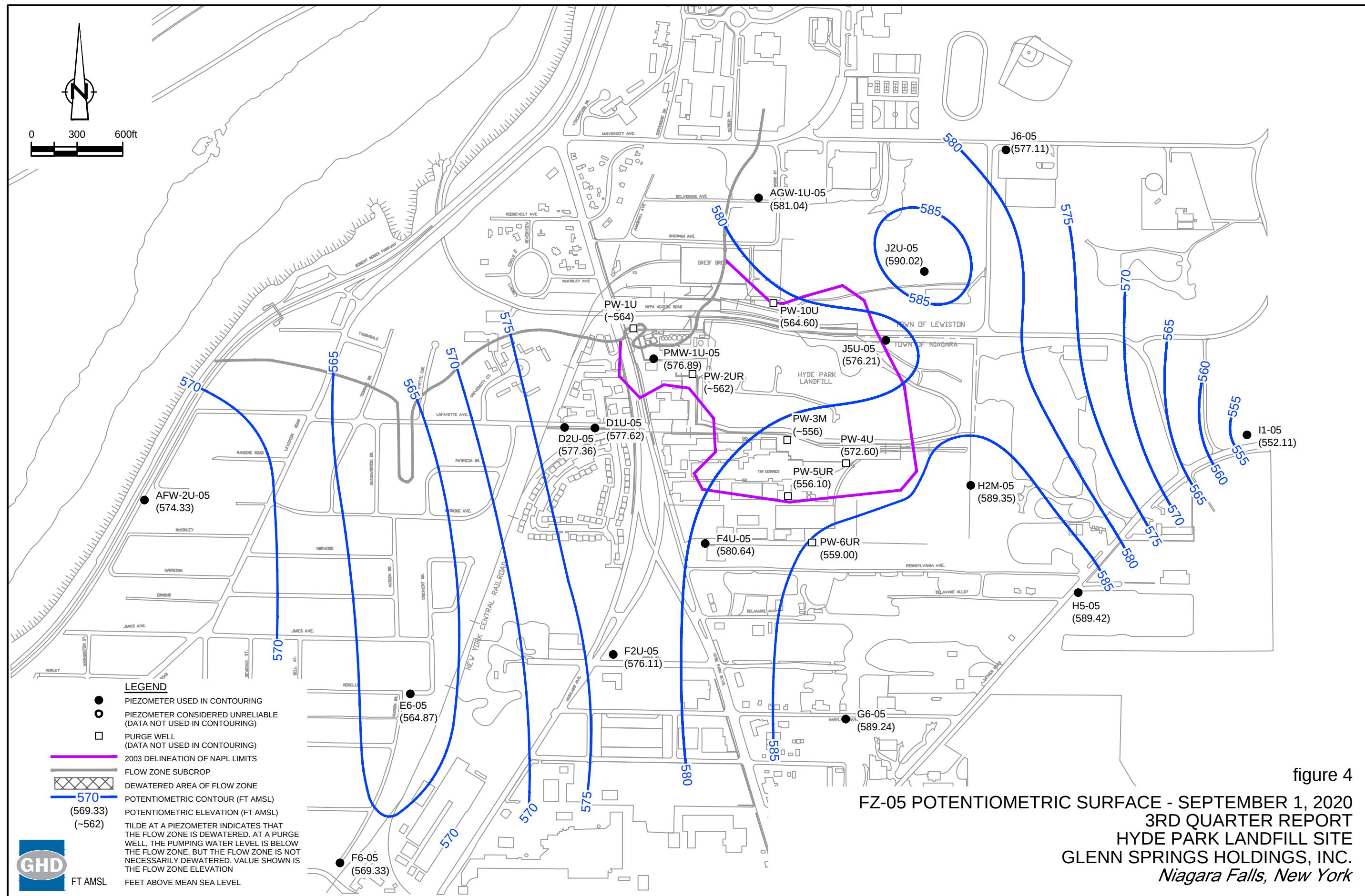
cc: G. May, NYSDEC
J. Robinson, NYSDOH
J. Pentilchuk, GHD

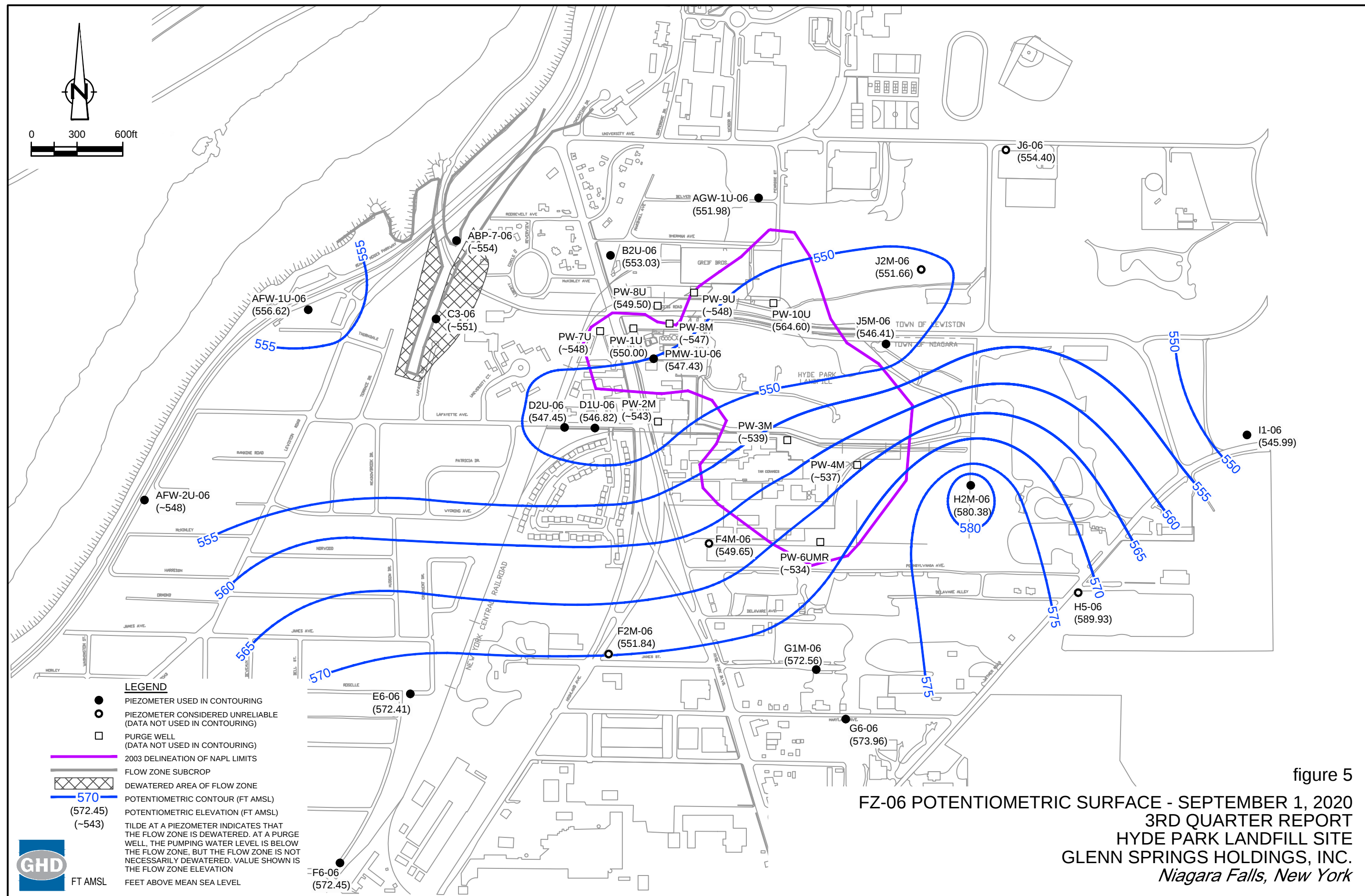
D. Hoyt, GHD
M. Popek, GHD

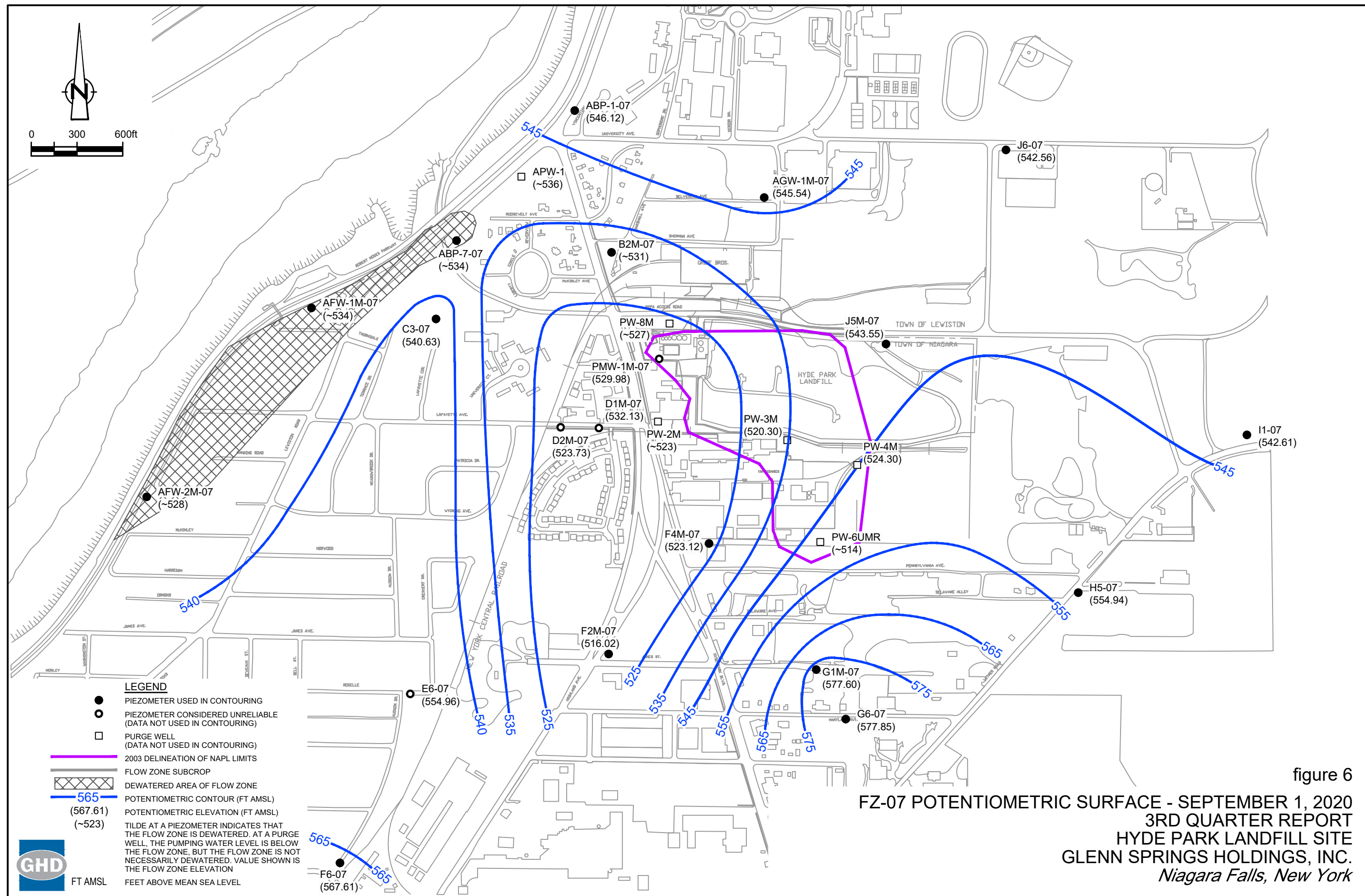


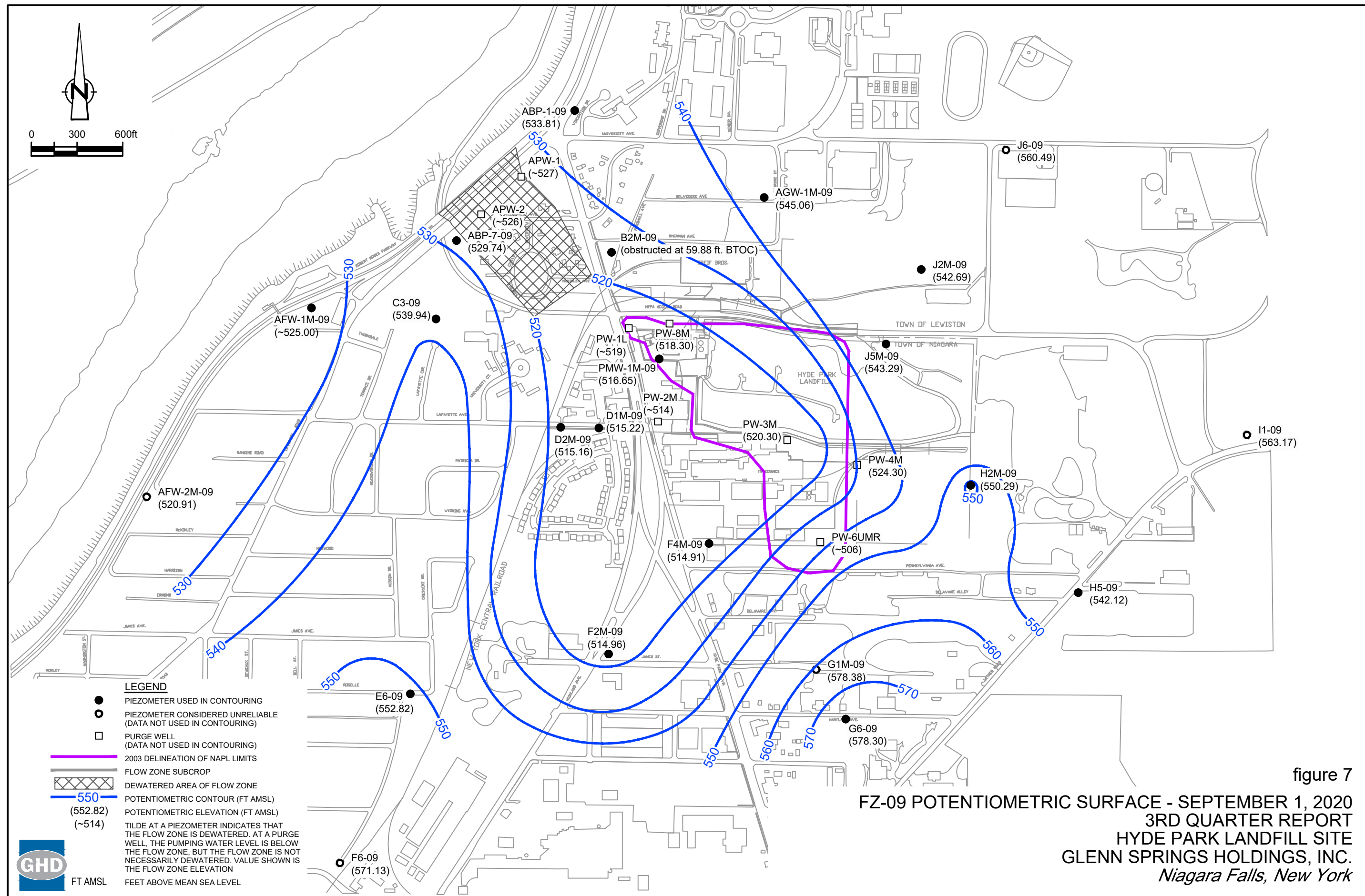


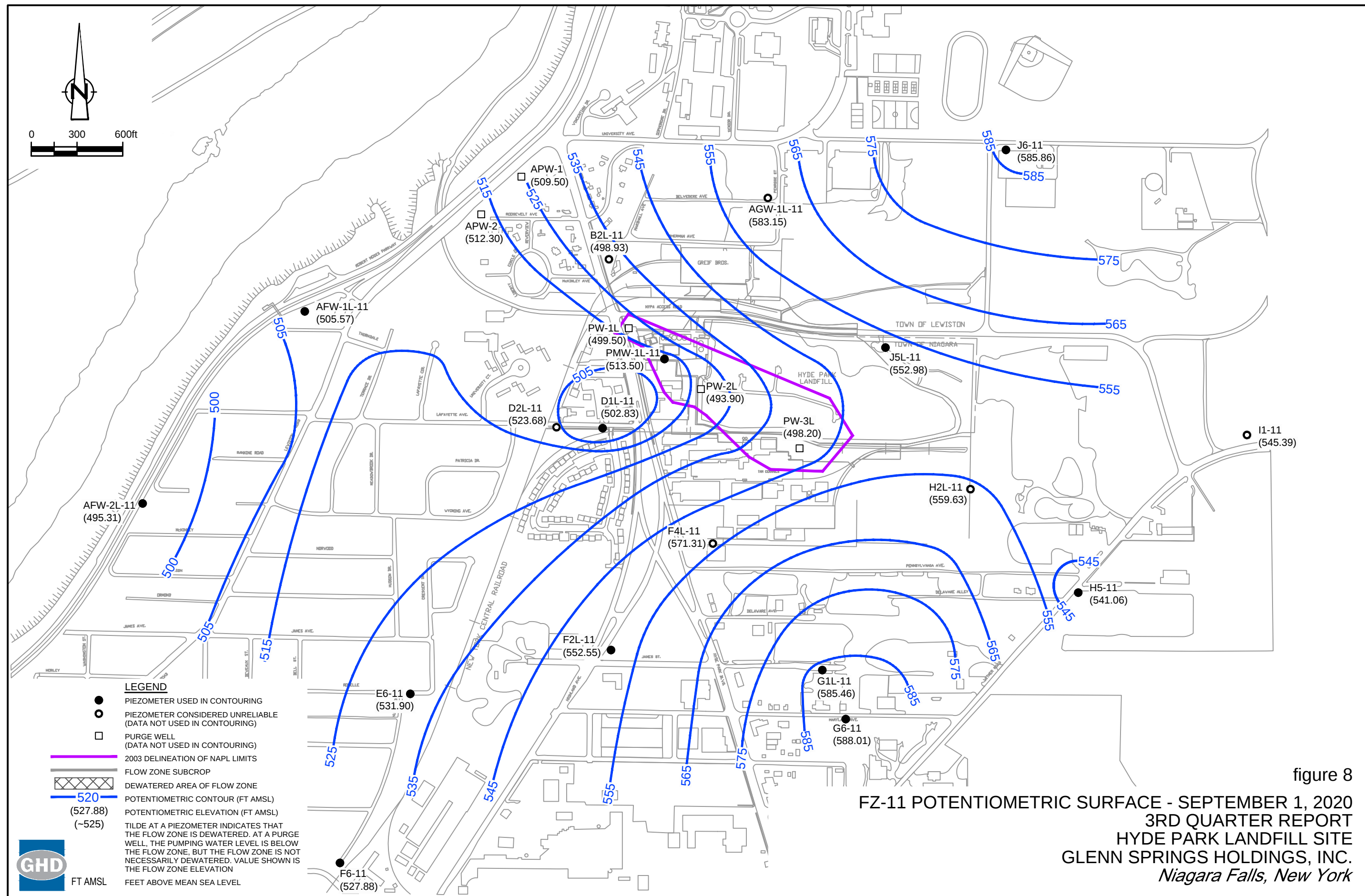












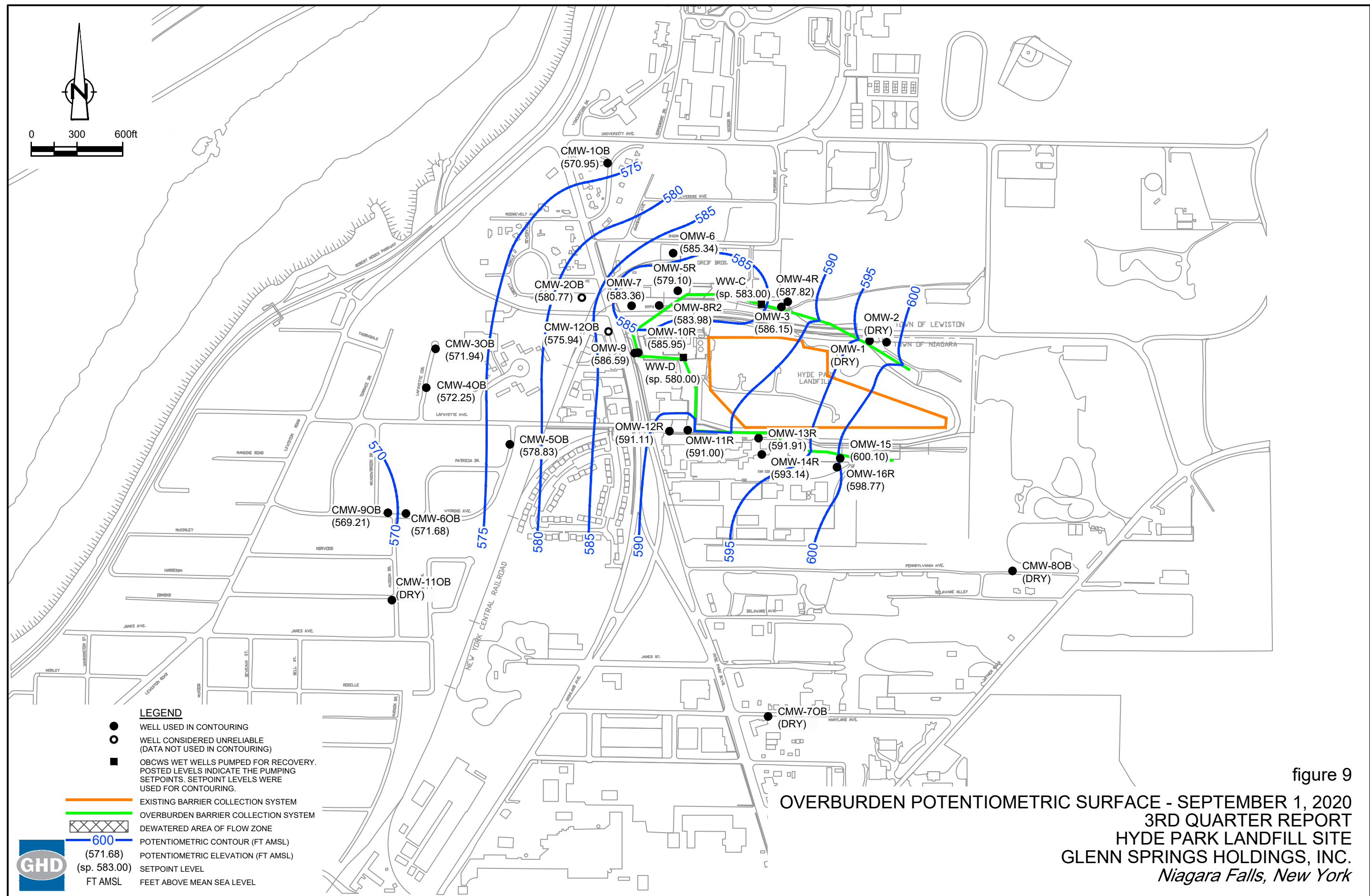


figure 9
 OVERBURDEN POTENTIOMETRIC SURFACE - SEPTEMBER 1, 2020
 3RD QUARTER REPORT
 HYDE PARK LANDFILL SITE
 GLENN SPRINGS HOLDINGS, INC.
 Niagara Falls, New York

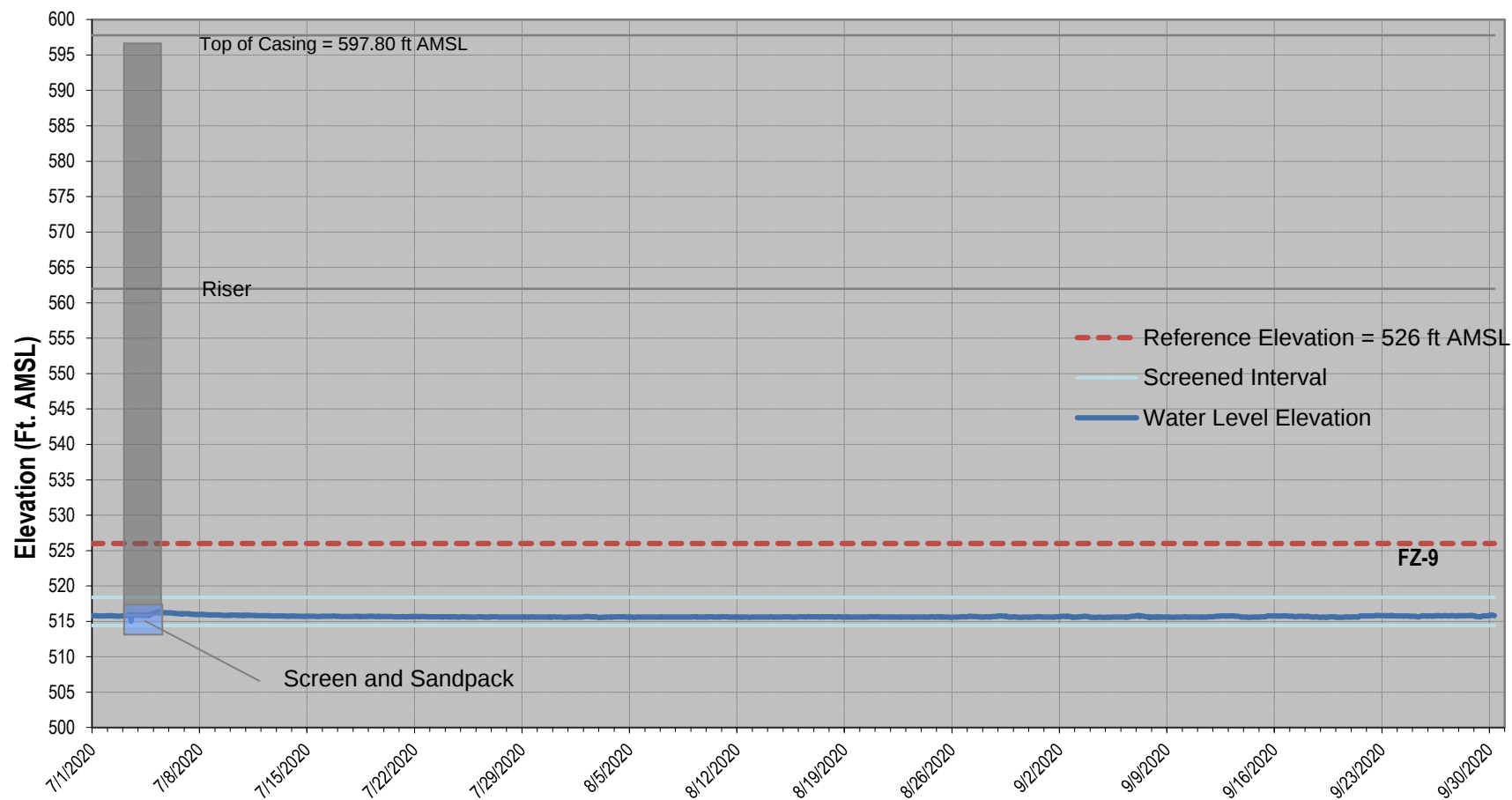


figure 10

PMW-1M-09 3rd Quarter 2020 - Hourly Water Level Elevation
 3rd Quarter Report
 Hyde Park Landfill Site
 Glenn Springs Holdings, Inc.



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Table 1

**Water Level Elevation Summary
Third Quarter - 2020
Hyde Park RRT Program**

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
Overburden			
CMW-2OB	590.79	10.02	580.77
CMW-3OB	582.13	10.19	571.94
CMW-4OB	574.28	2.03	572.25
CMW-5OB	583.43	4.60	578.83
CMW-6OB	571.89	0.21	571.68
CMW-7OB	611.00	Dry	-
CMW-8OB	616.11	Dry	-
CMW-9OB	571.76	2.55	569.21
CMW-1OB	576.80	5.85	570.95
CMW-11OB	572.85	Dry	-
CMW-12OB	594.74	18.80	575.94
MH20	605.87	4.69	601.18
MH21	599.77	6.24	593.53
MH22	593.37	Dry	-
MH23	587.05	12.30	574.75
MH24	582.57	Dry	-
MH25	583.82	Dry	-
MH26	584.48	Dry	-
MH27	586.12	10.71	575.41
MH28	585.23	16.58	568.65
MH29	604.58	Dry	-
MH30	599.49	10.09	589.40
MH31	590.10	9.62	580.48
MH32	592.01	9.66	582.35
MH33	592.51	8.75	583.76
MH34	598.34	7.18	591.16
MH35	605.69	6.54	599.15
MH35A	605.69	7.48	598.21
OMW-1	605.28	Dry	-
OMW-2	605.99	Dry	-
OMW-3	598.63	12.48	586.15
OMW-4R	601.17	13.35	587.82
OMW-5R	591.31	12.21	579.10
OMW-6	587.62	2.28	585.34
OMW-7	592.74	9.38	583.36
OMW-8R2	594.67	10.69	583.98
OMW-9	595.27	8.68	586.59
OMW-10R	595.13	9.18	585.95
OMW-11R	597.52	6.52	591.00
OMW-12R	596.71	5.60	591.11
OMW-13R	601.50	9.59	591.91
OMW-14R	599.64	6.50	593.14
OMW-15	607.48	7.38	600.10
OMW-16R	607.62	8.85	598.77
SC-2	625.61	23.03	602.58
SC-3	638.72	40.45	598.27
SC-4	639.35	39.12	600.23
SC-5	634.07	31.66	602.41
SC-6	631.15	20.12	611.03

Table 1

**Water Level Elevation Summary
Third Quarter - 2020
Hyde Park RRT Program**

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
Shallow Bedrock			
CMW-1SH	576.11	13.22	562.89
CMW-2SH	590.51	20.59	569.92
CMW-3SH	581.91	30.16	551.75
CMW-4SH	574.16	8.27	565.89
CMW-5SH	583.36	9.54	573.82
CMW-6SH	572.05	10.70	561.35
CMW-7SH	610.58	14.50	596.08
CMW-8SH	615.95	10.72	605.23
CMW-9SH	571.96	12.23	559.73
CMW-11SH	573.21	12.79	560.42
CMW-12SH	597.02	27.83	569.19
Flow Zone 1			
G1U-01	617.08	19.26	597.82
G6-01	609.24	11.89	597.35
H2U-01	620.92	15.05	605.87
H5-01	617.61	25.06	592.55
I1-01	625.58	28.08	597.50
Flow Zone 2			
F2U-02	599.89	25.99	573.90
F4U-02	602.32	17.87	584.45
G1-02	616.86	27.22	589.64
G6-02	608.65	19.50	589.15
H2U-02	620.88	29.57	591.31
H5-02	617.47	26.42	591.05
I1-02	625.47	40.88	584.59
J2U-02	609.66	19.28	590.38
J5U-02	606.21	14.33	591.88
J6-02	609.23	17.92	591.31
Flow Zone 4			
AFW-2U-04	593.48	18.88	574.60
D1U-04	593.77	15.62	578.15
D2U-04	590.65	14.05	576.60
E6-04	578.23	13.48	564.75
F2U-04	599.76	24.02	575.74
F4U-04	602.19	18.83	583.36
F6-04	588.06	18.66	569.40
G1U-04	616.96	27.52	589.44
G6-04	609.15	19.68	589.47
H5-04	617.40	26.37	591.03
I1-04	625.30	43.60	581.70
J2U-04	609.42	21.80	587.62
J5U-04	606.05	22.18	583.87
J6-04	609.12	31.81	577.31

Table 1

**Water Level Elevation Summary
Third Quarter - 2020
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	19.00	574.33
AGW-1U-05	591.80	10.76	581.04
D1U-05	593.51	15.89	577.62
D2U-05	590.56	13.20	577.36
E6-05	578.04	13.17	564.87
F2U-05	599.64	23.53	576.11
F4U-05	602.06	21.42	580.64
F6-05	587.85	18.52	569.33
G6-05	609.13	19.89	589.24
H2M-05	621.59	32.24	589.35
H5-05	617.31	27.89	589.42
I1-05	625.25	73.14	552.11
J2U-05	609.30	19.28	590.02
J5U-05	605.87	29.66	576.21
J6-05	609.02	31.91	577.11
PMW-1U-05	598.00	21.11	576.89
Flow Zone 6			
ABP-7-06	575.78	Dry	-
AFW-1U-06	571.83	15.21	556.62
AFW-2U-06	593.22	48.23	544.99
AGW-1U-06	591.66	39.68	551.98
B2U-06	589.29	36.26	553.03
C3-06	585.78	Dry	-
D1U-06	593.25	46.43	546.82
D2U-06	590.38	42.93	547.45
E6-06	577.99	5.58	572.41
F2M-06	599.06	47.22	551.84
F4M-06	602.05	52.40	549.65
F6-06	587.84	15.39	572.45
G1M-06	616.75	44.19	572.56
G6-06	609.09	35.13	573.96
H2M-06	621.42	41.04	580.38
H5-06	617.17	27.24	589.93
I1-06	625.15	79.16	545.99
J2M-06	608.94	57.28	551.66
J5M-06	606.22	59.81	546.41
J6-06	608.93	54.53	554.40
PMW-1U-06	597.92	50.49	547.43

Table 1

**Water Level Elevation Summary
Third Quarter - 2020
Hyde Park RRT Program**

Well	Reference Elevation (ft AMSL)	Depth to Water (ft)	Water Level Elevation (ft AMSL)
Flow Zone 7			
ABP-1-07	575.20	29.08	546.12
ABP-7-07	575.73	42.67	533.06
AFW-1M-07	571.41	Dry	-
AFW-2M-07	593.44	66.77	526.67
AGW-1M-07	592.91	47.37	545.54
B2M-07	589.52	59.18	530.34
C3-07	585.62	44.99	540.63
D1M-07	594.15	62.02	532.13
D2M-07	590.77	67.04	523.73
E6-07	577.91	22.95	554.96
F2M-07	598.91	82.89	516.02
F4M-07	601.91	78.79	523.12
F6-07	587.68	20.07	567.61
G1M-07	616.68	39.08	577.60
G6-07	609.06	31.21	577.85
H5-07	617.05	62.11	554.94
I1-07	625.14	82.53	542.61
J5M-07	606.07	62.52	543.55
J6-07	608.85	66.29	542.56
PMW-1M-07	598.50	68.52	529.98
Flow Zone 9			
ABP-1-09	575.19	41.38	533.81
ABP-7-09	575.67	45.93	529.74
AFW-1M-09	571.12	46.58	524.54
AFW-2M-09	593.32	72.41	520.91
AGW-1M-09	592.75	47.69	545.06
B2M-09	589.34	-	-
C3-09	585.00	45.06	539.94
D1M-09	594.02	78.80	515.22
D2M-09	590.66	75.50	515.16
E6-09	577.82	25.00	552.82
F2M-09	598.71	83.75	514.96
F4M-09	601.79	86.88	514.91
F6-09	587.53	16.40	571.13
G1M-09	616.58	38.20	578.38
G6-09	608.98	30.68	578.30
H2M-09	621.32	71.03	550.29
H5-09	616.93	74.81	542.12
I1-09	624.91	61.74	563.17
J2M-09	608.77	66.08	542.69
J5M-09	605.82	62.53	543.29
J6-09	608.76	48.27	560.49
PMW-1M-09	598.34	81.69	516.65

Table 1

**Water Level Elevation Summary
Third Quarter - 2020
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	66.53	505.57
AFW-2L-11	593.43	98.12	495.31
AGW-1L-11	592.71	9.56	583.15
B2L-11	589.65	90.72	498.93
D1L-11	593.80	90.97	502.83
D2L-11	590.21	66.53	523.68
E6-11	577.72	45.82	531.90
F2L-11	598.94	46.39	552.55
F4L-11	602.22	30.91	571.31
F6-11	587.40	59.52	527.88
G1L-11	616.84	31.38	585.46
G6-11	608.89	20.88	588.01
H2L-11	620.73	61.10	559.63
H5-11	616.81	75.75	541.06
I1-11	624.75	79.36	545.39
J5L-11	607.20	54.22	552.98
J6-11	608.68	22.82	585.86
PMW-1L-11	598.84	85.34	513.50
Purge Wells			
APW-1	564.98	55.48	509.50
APW-2	569.89	57.59	512.30
PW-1L	593.16	93.66	499.50
PW-1U	593.50	43.50	550.00
PW-2L	597.29	103.39	493.90
PW-2M	596.61	83.81	512.80
PW-2UR	594.75	35.65	559.10
PW-3L	599.05	100.85	498.20
PW-3M	597.79	77.49	520.30
PW-4M	606.93	82.63	524.30
PW-4U	604.85	32.25	572.60
PW-5UR	601.31	45.21	556.10
PW-6UMR	609.31	103.91	505.40
PW-6UR	608.47	49.47	559.00
PW-7U	592.47	52.97	539.50
PW-8M	592.67	74.37	518.30
PW-8U	589.27	39.77	549.50
PW-9U	587.47	43.87	543.60
PW-10U	593.54	28.94	564.60

Notes:

"-" - Not applicable
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
Third Quarter - 2020
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
07/01/20	7.0	57,000
07/02/20	7.1	23,000
07/03/20		
07/04/20		
07/05/20		
07/06/20	7.1	70,000
07/07/20	7.0	74,000
07/08/20	7.0	78,000
07/09/20	6.9	80,000
07/10/20	7.0	58,000
07/11/20		
07/12/20		
07/13/20		
07/14/20	7.0	183,000
07/15/20		
07/16/20		
07/17/20	7.1	45,000
07/18/20		
07/19/20		
07/20/20		
07/21/20	7.0	192,000
07/22/20	7.1	42,000
07/23/20	7.1	43,000
07/24/20		
07/25/20		
07/26/20		
07/27/20		
07/28/20	7.1	145,000
07/29/20	8.0	150,000
07/30/20		
07/31/20		
08/01/20		
08/02/20		
08/03/20		
08/04/20	7.2	210,000
08/05/20	7.1	5,000
08/06/20		

Table 2

**Leachate Treatment System Daily Effluent Monitoring Data
Third Quarter - 2020
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
08/07/20		
08/08/20		
08/09/20		
08/10/20	7.0	166,000
08/11/20	7.1	43,000
08/12/20		
08/13/20		
08/14/20		
08/15/20		
08/16/20		
08/17/20	7.0	148,000
08/18/20	7.1	143,000
08/19/20	7.0	14,000
08/20/20		
08/21/20		
08/22/20		
08/23/20		
08/24/20		
08/25/20	7.1	142,000
08/26/20	7.0	138,000
08/27/20		
08/28/20		
08/29/20		
08/30/20		
08/31/20		
09/01/20		
09/02/20	7.1	192,000
09/03/20		
09/04/20		
09/05/20		
09/06/20		
09/07/20		
09/08/20		
09/09/20	7.0	184,000
09/10/20	7.1	44,000
09/11/20		
09/12/20		

Table 2

**Leachate Treatment System Daily Effluent Monitoring Data
Third Quarter - 2020
Hyde Park RRT Program**

Date	Effluent	
	pH (su)	Flow (gal)
09/13/20		
09/14/20		
09/15/20		
09/16/20	7.0	196,000
09/17/20	7.1	18,000
09/18/20		
09/19/20		
09/20/20		
09/21/20		
09/22/20		
09/23/20	7.1	54,000
09/24/20	7.1	19,000
09/25/20		
09/26/20		
09/27/20		
09/28/20	7.0	147,000
09/29/20		
09/30/20	7.0	127,000
Total		3,230,000

Notes:

su - Standard Unit
gal - Gallons

Table 3

Analytical Results Summary
Weekly Sampling - Leachate Treatment System
Third Quarter - 2020
Hyde Park RRT Program

Effluent	Parameter	Units	07/01/2020	07/08/2020	07/15/2020	07/22/2020	07/29/2020
Volatiles							
	1,1,1-Trichloroethane	µg/L	0.86 J	0.76 J	0.80 J	0.75 J	0.48 J
	1,1,2,2-Tetrachloroethane	µg/L	7.8	9.4	9.4	10	7.7
	1,1,2-Trichloroethane	µg/L	0.86 J	1.1	1.2 J	1.2 J	1.2 J
	1,1-Dichloroethane	µg/L	5.1	5.5 J	5.7	5.9	4.8
	1,1-Dichloroethene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichloroethane	µg/L	9.0	10	9.8	9.5	8.1
	1,2-Dichloropropane	µg/L	0.83 J	1.0 U	1.2 J	1.1 J	2.0 U
	1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	2-Chlorotoluene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	3-Chlorotoluene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	4-Chlorotoluene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Benzene	µg/L	11	12	14	14	10
	Bromodichloromethane	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Bromoform	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Carbon disulfide	µg/L	11	26	41	35	30
	Carbon tetrachloride	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Chlorobenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Chloroethane	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Chloroform (Trichloromethane)	µg/L	4.6	3.9	4.8	6.0	3.9
	Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	cis-1,2-Dichloroethene	µg/L	2.7	3.1	3.3	3.5	2.4
	cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Ethylbenzene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	m&p-Xylenes	µg/L	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
	m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Methylene chloride	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	o-Xylene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Styrene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Tetrachloroethene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Toluene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Trichloroethene	µg/L	1.0 U	1.0 U	0.53 J	0.54 J	2.0 U
	Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
	Vinyl acetate	µg/L	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
	Vinyl chloride	µg/L	190	240	230	220	200
	Xylenes (total)	µg/L	3.0 U	3.0 U	6.0 U	6.0 U	6.0 U
General Chemistry							
	Phenolics (total)	mg/L	0.0211	0.0207	0.0249	0.0351	0.0311

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

Table 3

Analytical Results Summary
Weekly Sampling - Leachate Treatment System
Third Quarter - 2020
Hyde Park RRT Program

Effluent	Parameter	Units	08/05/2020	08/11/2020	08/19/2020	08/26/2020	09/02/2020
Volatiles							
	1,1,1-Trichloroethane	µg/L	0.48 J	0.80 J	0.66 J	0.55 J	0.61 J
	1,1,2,2-Tetrachloroethane	µg/L	6.8	8.4	8.5	7.2	7.3
	1,1,2-Trichloroethane	µg/L	1.1 J	1.3 J	1.3 J	1.1 J	0.95 J
	1,1-Dichloroethane	µg/L	5.2	5.0	5.7	5.0	6.4
	1,1-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichloroethane	µg/L	8.2	10	9.9	11	12
	1,2-Dichloropropane	µg/L	0.82 J	2.0 U	1.1 J	0.96 J	0.97 J
	1,3-Dichlorobenzene	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
	1,4-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	2-Chlorotoluene	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
	3-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	4-Chlorotoluene	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
	Benzene	µg/L	12	11	11	9.4	8.6
	Bromodichloromethane	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Bromoform	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Carbon disulfide	µg/L	15	51	27	31	32
	Carbon tetrachloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Chlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Chloroethane	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Chloroform (Trichloromethane)	µg/L	6.3	6.2	8.0	6.7	6.3
	Chloromethane (Methyl chloride)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	cis-1,2-Dichloroethene	µg/L	2.8	3.1	3.1	2.7	3.0
	cis-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Ethylbenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	m&p-Xylenes	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
	m-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Methylene chloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	o-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	o-Xylene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	p-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Styrene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Tetrachloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Toluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	trans-1,2-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	trans-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Trichloroethene	µg/L	2.0 U	0.64 J	2.0 U	2.0 U	2.0 U
	Trichlorofluoromethane (CFC-11)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Vinyl acetate	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
	Vinyl chloride	µg/L	160	200	210	190	270
	Xylenes (total)	µg/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
General Chemistry							
	Phenolics (total)	mg/L	0.0535	0.0277	0.0314	0.0170	0.0167

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

Table 3

Analytical Results Summary
Weekly Sampling - Leachate Treatment System
Third Quarter - 2020
Hyde Park RRT Program

Effluent	Parameter	Units	09/09/2020	09/17/2020	09/23/2020	09/30/2020
Volatiles						
	1,1,1-Trichloroethane	µg/L	2.0 U	0.59 J	0.48 J	2.0 U
	1,1,2,2-Tetrachloroethane	µg/L	5.8	7.1	5.3	6.3
	1,1,2-Trichloroethane	µg/L	1.1 J	1.5 J	0.83 J	0.87 J
	1,1-Dichloroethane	µg/L	5.8	5.5	5.2	4.9
	1,1-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dichloroethane	µg/L	8.9	10	8.1	7.5
	1,2-Dichloropropane	µg/L	2.0 U	1.1 J	0.83 J	2.0 U
	1,3-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	1,4-Dichlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	2-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	3-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	4-Chlorotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Benzene	µg/L	7.2	12	6.3	6.6
	Bromodichloromethane	µg/L	0.88 J	2.0 U	2.0 U	2.0 U
	Bromoform	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Carbon disulfide	µg/L	48	25	24	42
	Carbon tetrachloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Chlorobenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Chloroethane	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Chloroform (Trichloromethane)	µg/L	6.2	18	8.0	9.1
	Chloromethane (Methyl chloride)	µg/L	2.0 U	2.0 U	2.0 U	9.7
	cis-1,2-Dichloroethene	µg/L	3.0	2.8	2.1	2.1
	cis-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Ethylbenzene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	m&p-Xylenes	µg/L	4.0 U	4.0 U	4.0 U	4.0 U
	m-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Methylene chloride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	o-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	o-Xylene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	p-Monochlorobenzotrifluoride	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Styrene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Tetrachloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Toluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	trans-1,2-Dichloroethene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	trans-1,3-Dichloropropene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Trichloroethene	µg/L	2.0 U	0.41 J	2.0 U	2.0 U
	Trichlorofluoromethane (CFC-11)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
	Vinyl acetate	µg/L	4.0 U	4.0 U	4.0 U	4.0 U
	Vinyl chloride	µg/L	240	180	200	160
	Xylenes (total)	µg/L	6.0 U	6.0 U	6.0 U	6.0 U
General Chemistry						
	Phenolics (total)	mg/L	0.0110	0.0338	0.0074	0.0111

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

mg/L - Milligrams per liter

µg/L - Micrograms per liter

Table 4

Analytical Results Summary
Quarterly Sampling - Leachate Treatment System
Third Quarter - 2020
Hyde Park RRT Program

Sample Location:		EFFLUENT	EFFLUENT
Sample ID:		HP 92320 EFF	HP 92320 EFF
Sample Date:		9/23/2020	9/23/2020
Parameters	Units		
Volatile Organic Compounds			
Vinyl chloride	µg/L	184	--
General Chemistry			
Phosphorus	mg/L	--	0.255

Notes:

"--" - Not applicable

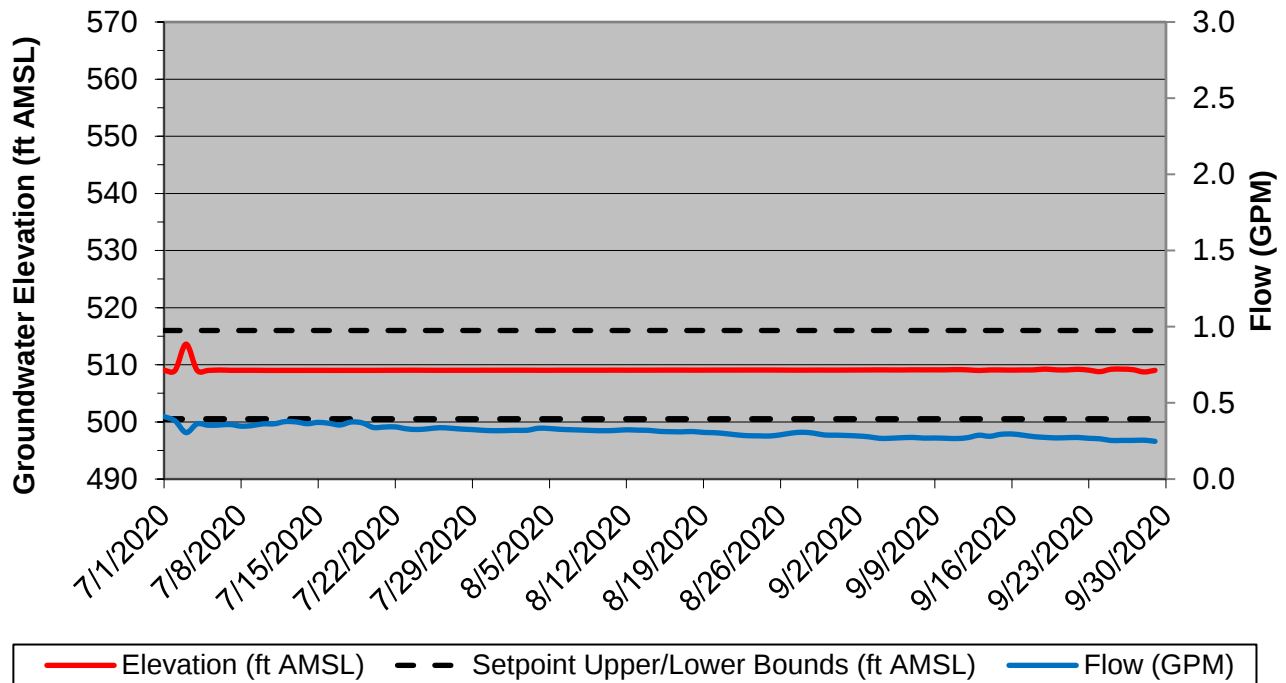
mg/L - Milligrams per liter

µg/L - Micrograms per liter

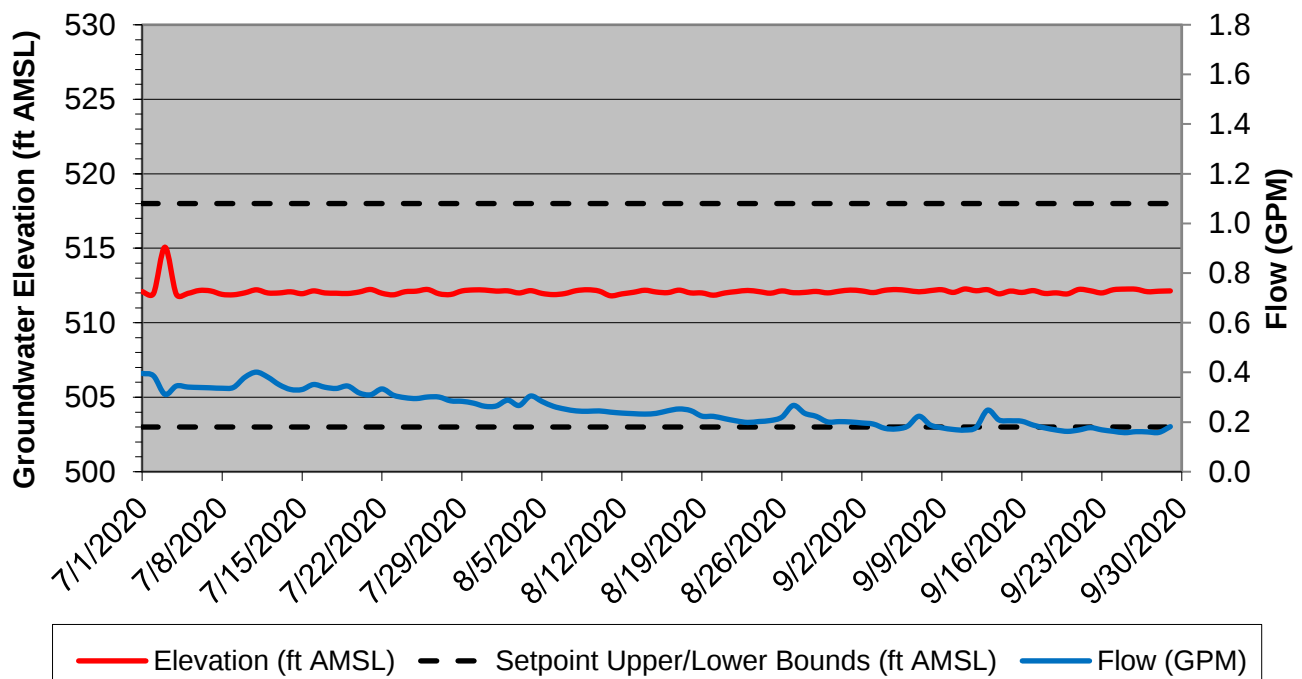
Attachment A
Third Quarter 2020
Pumping Well Performance Graphs

THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well APW-1

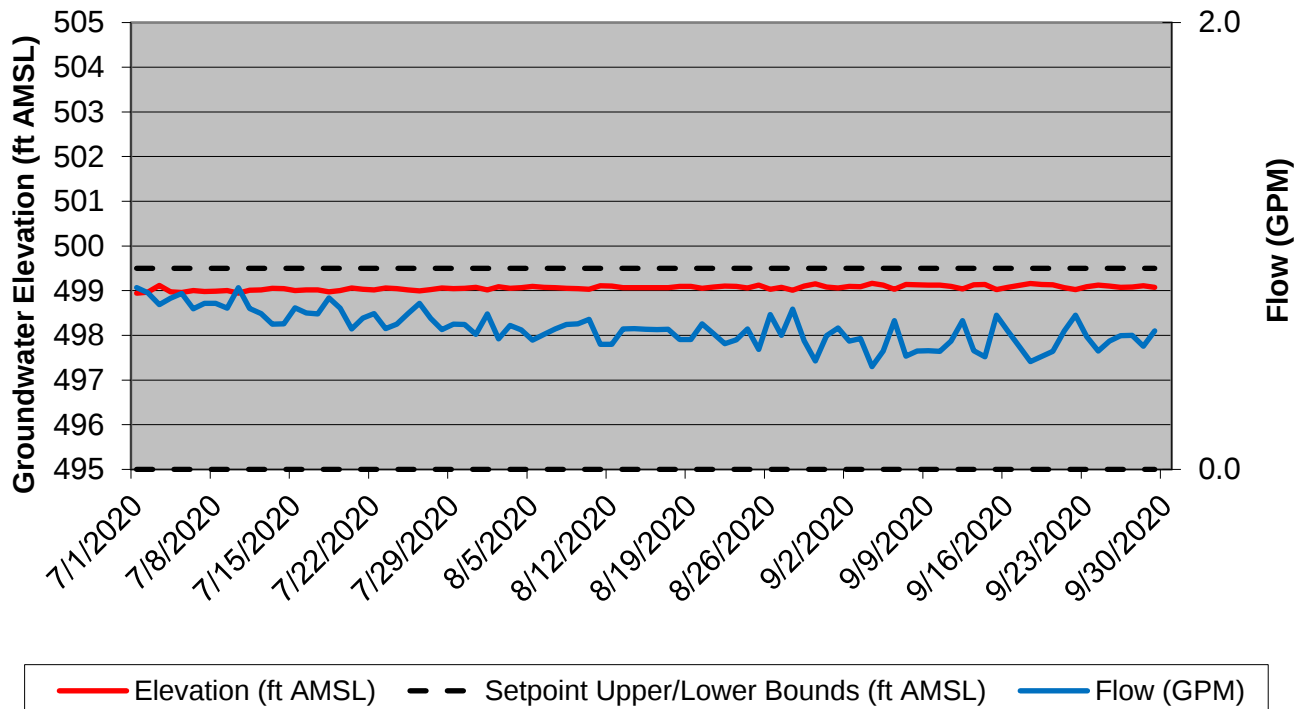


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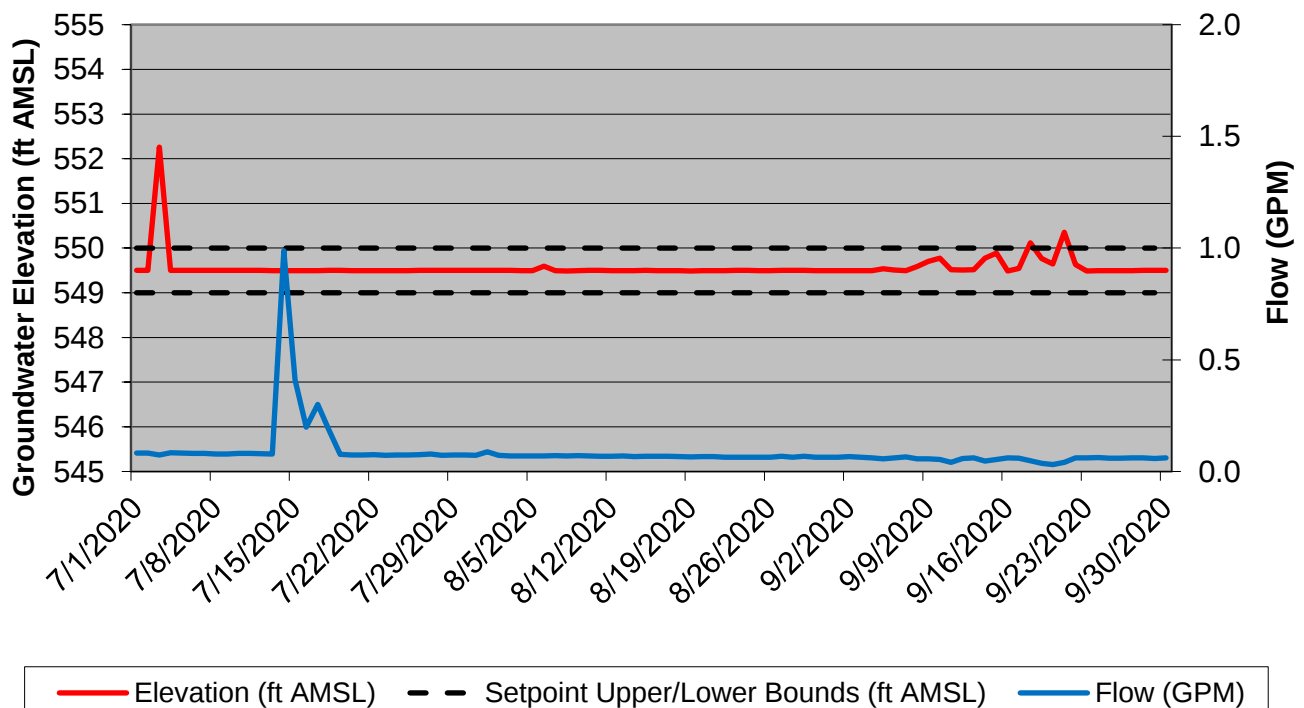


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-1L

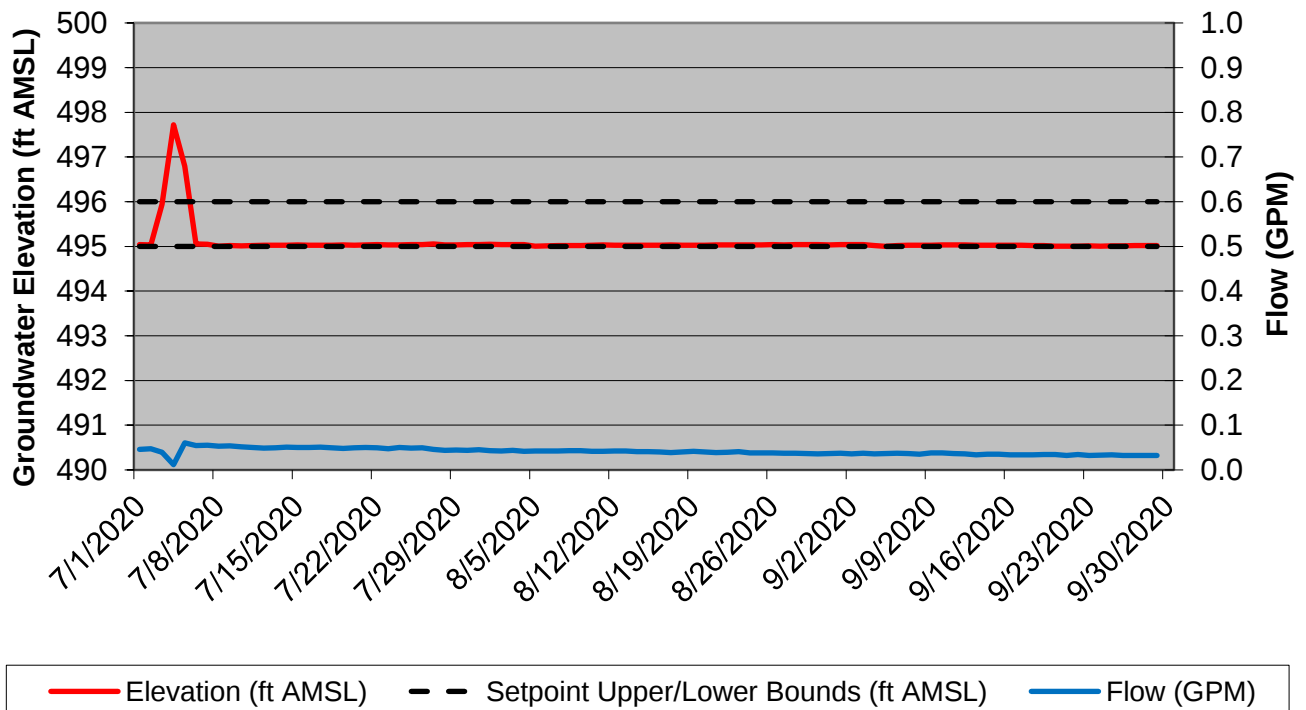


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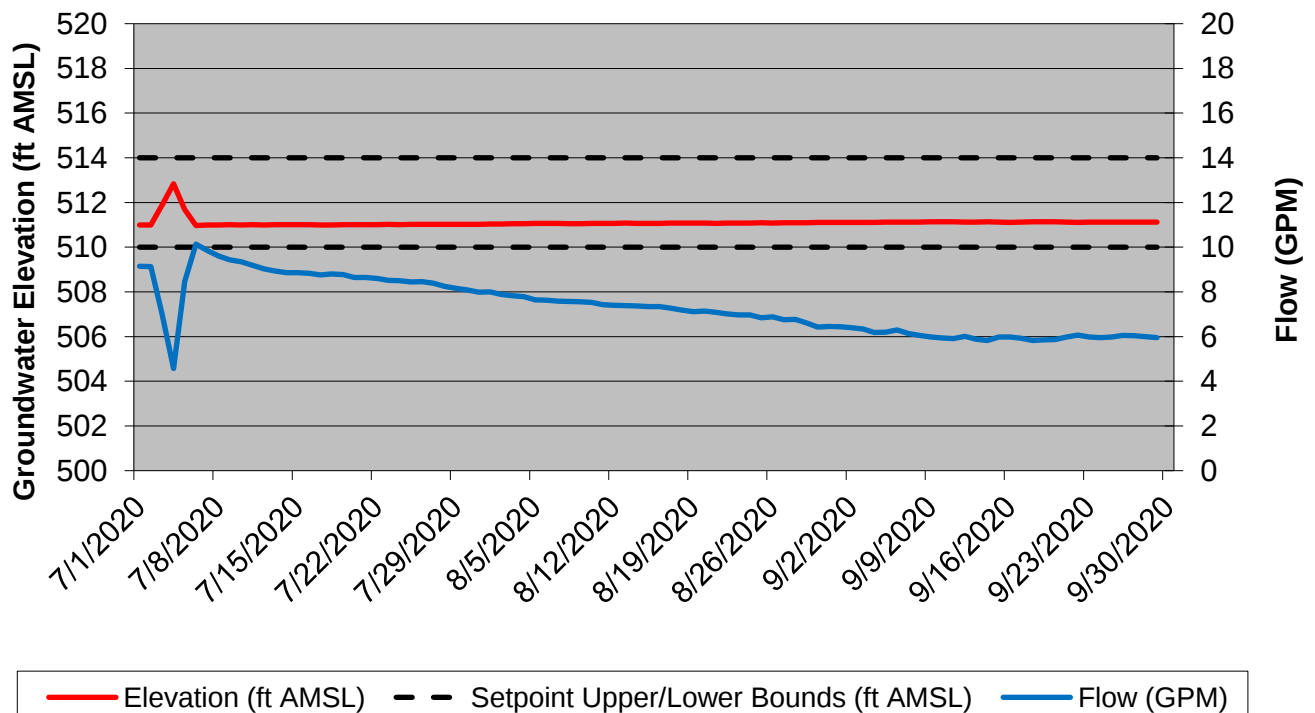


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-2L

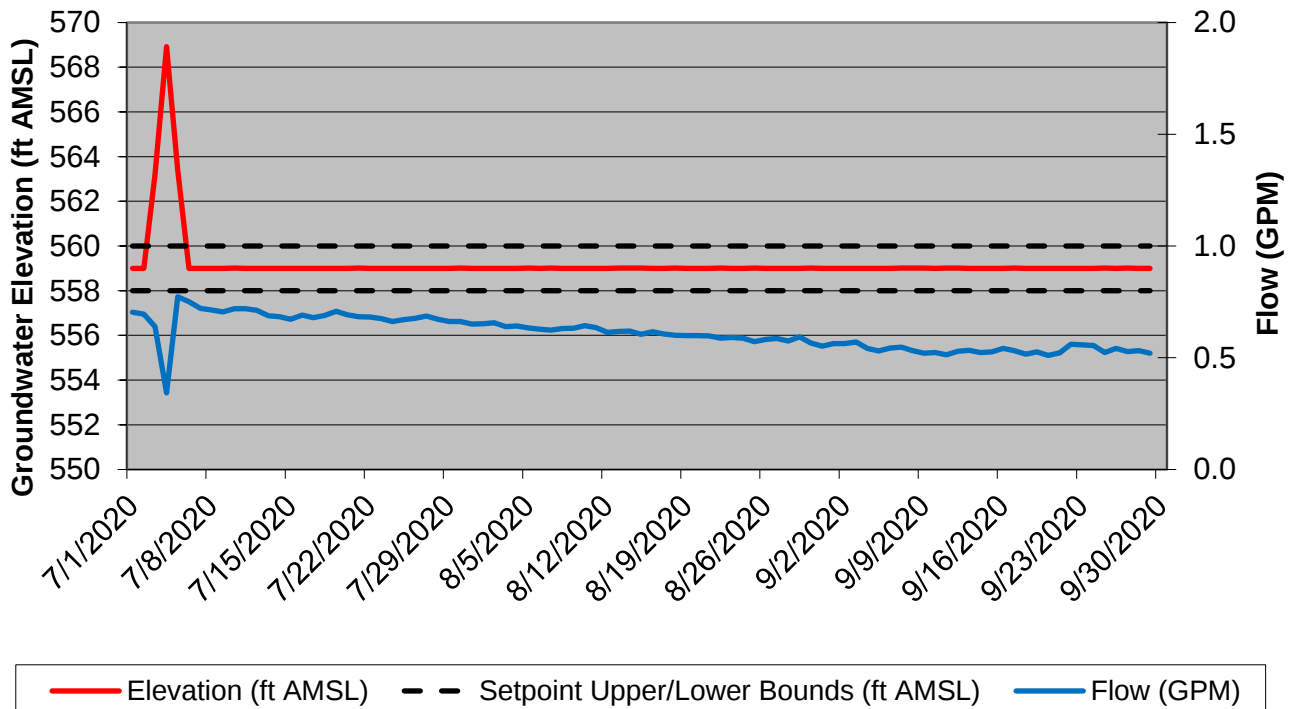


Well PW-2M

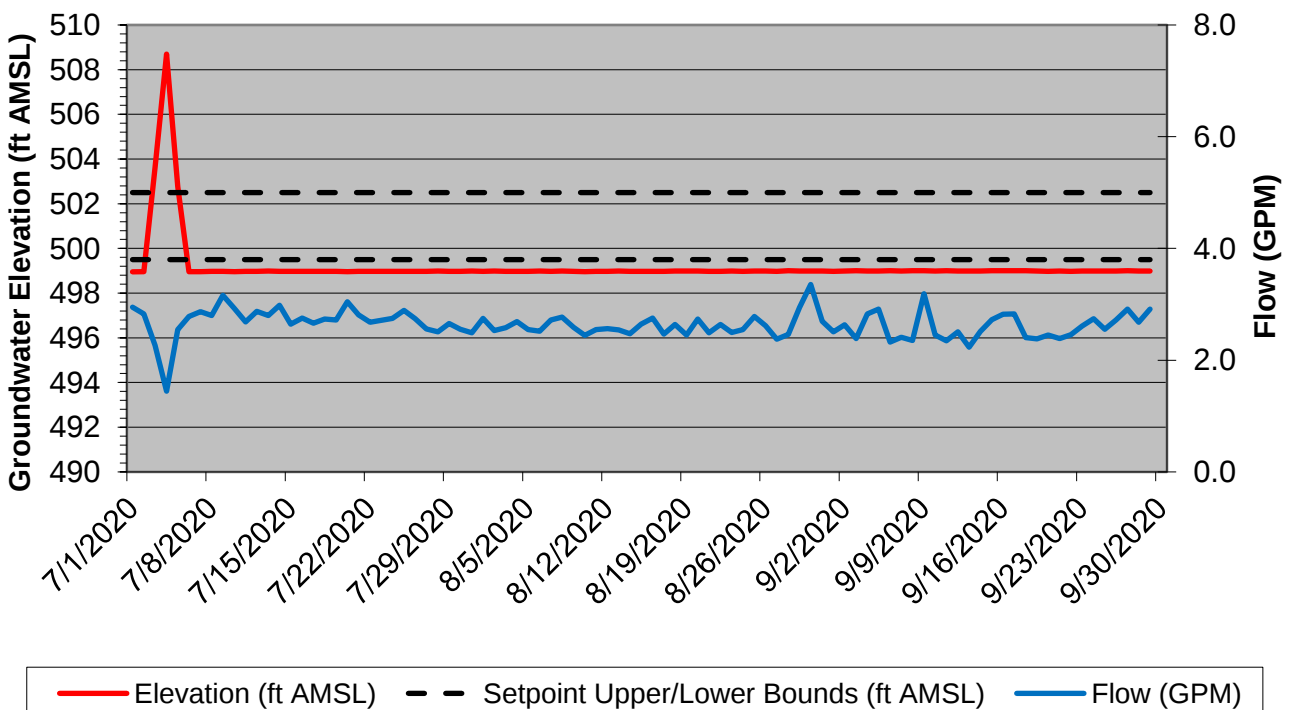


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-2UR

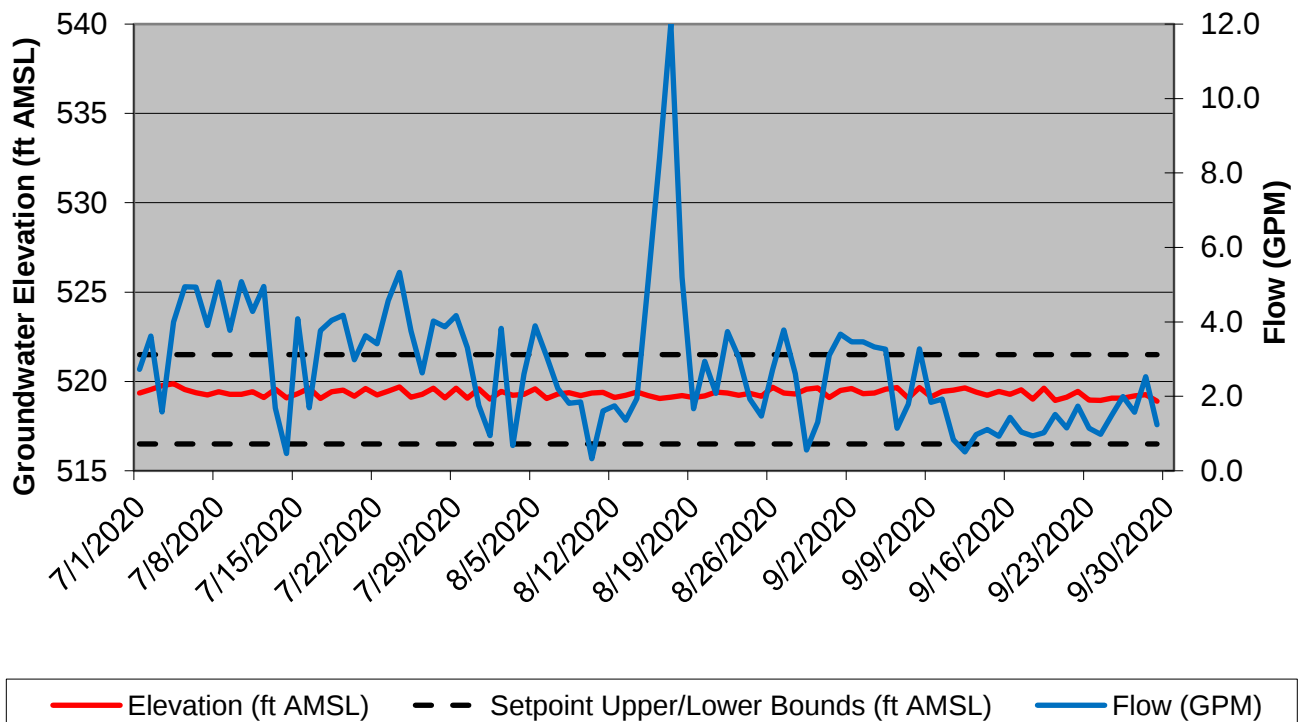


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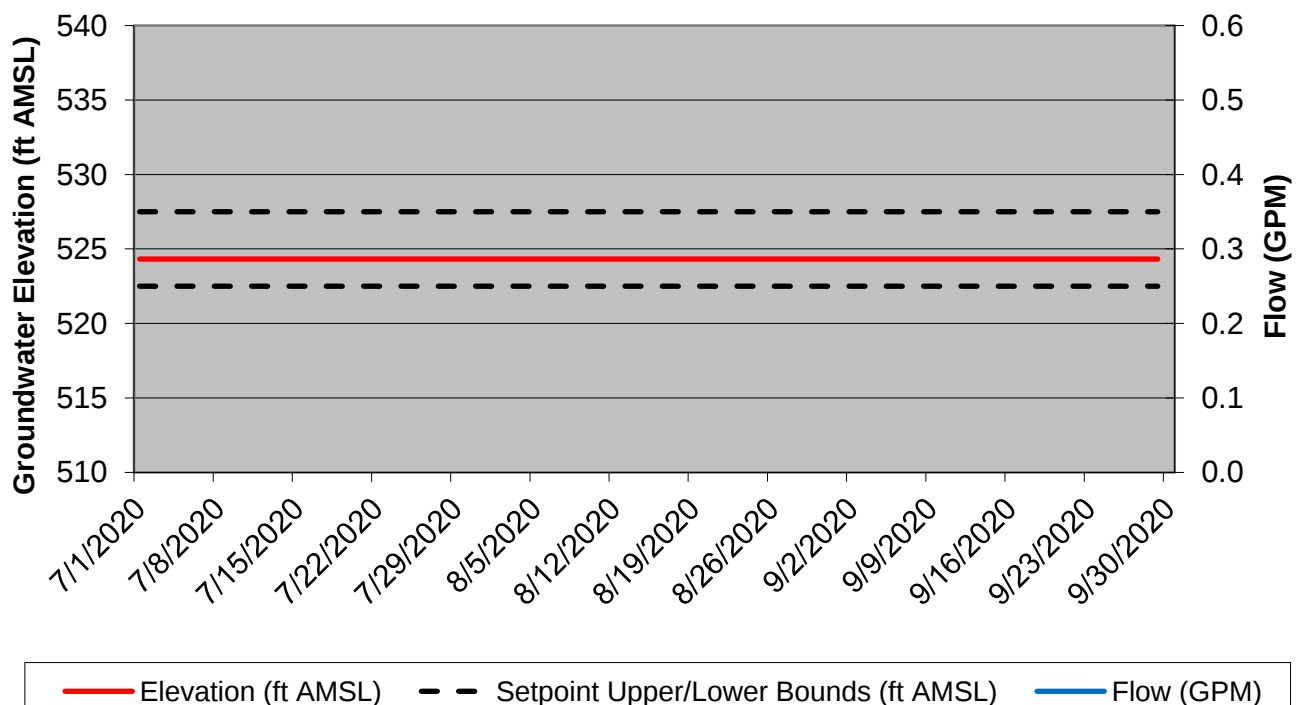


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-3M

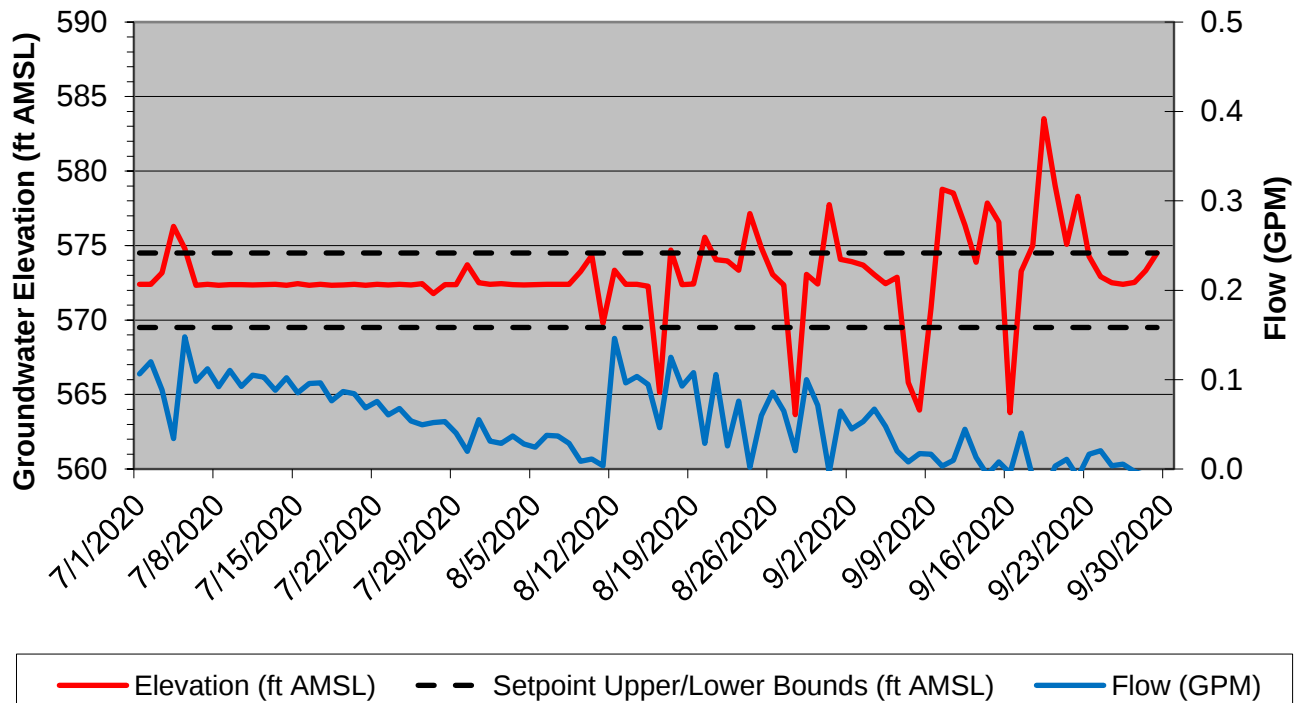


Well PW-4M

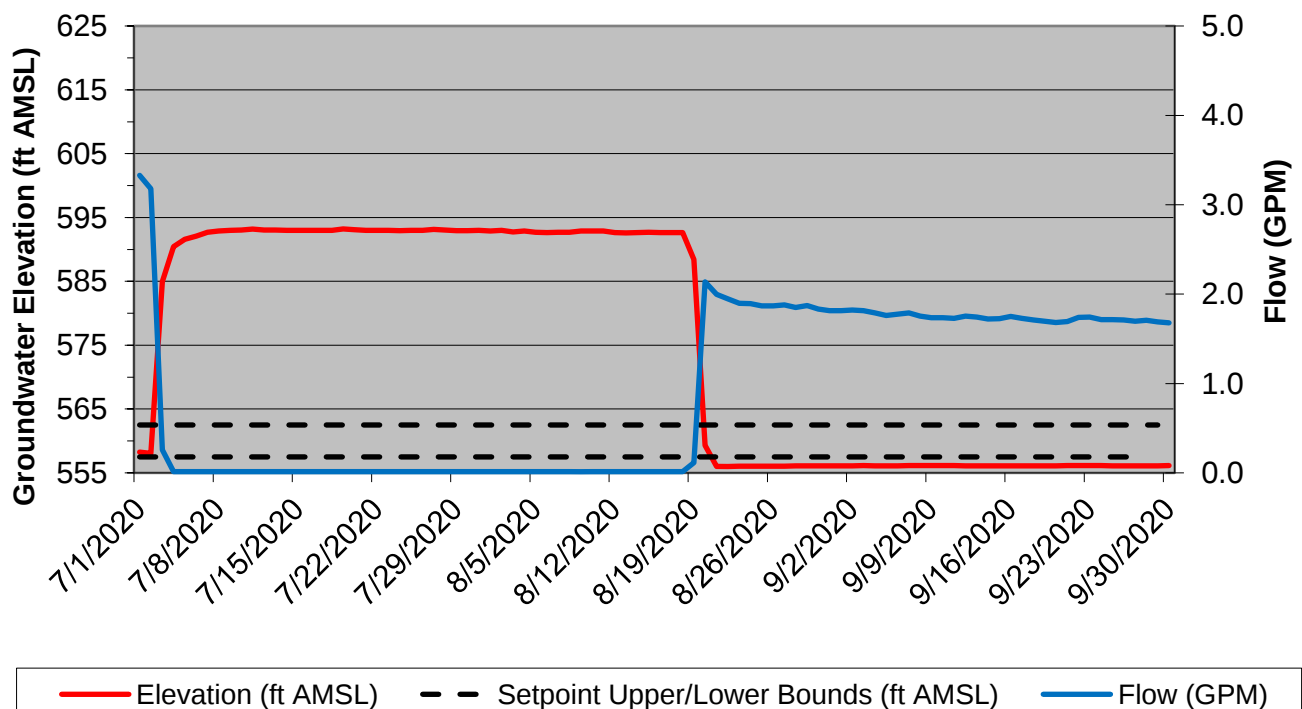


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-4U

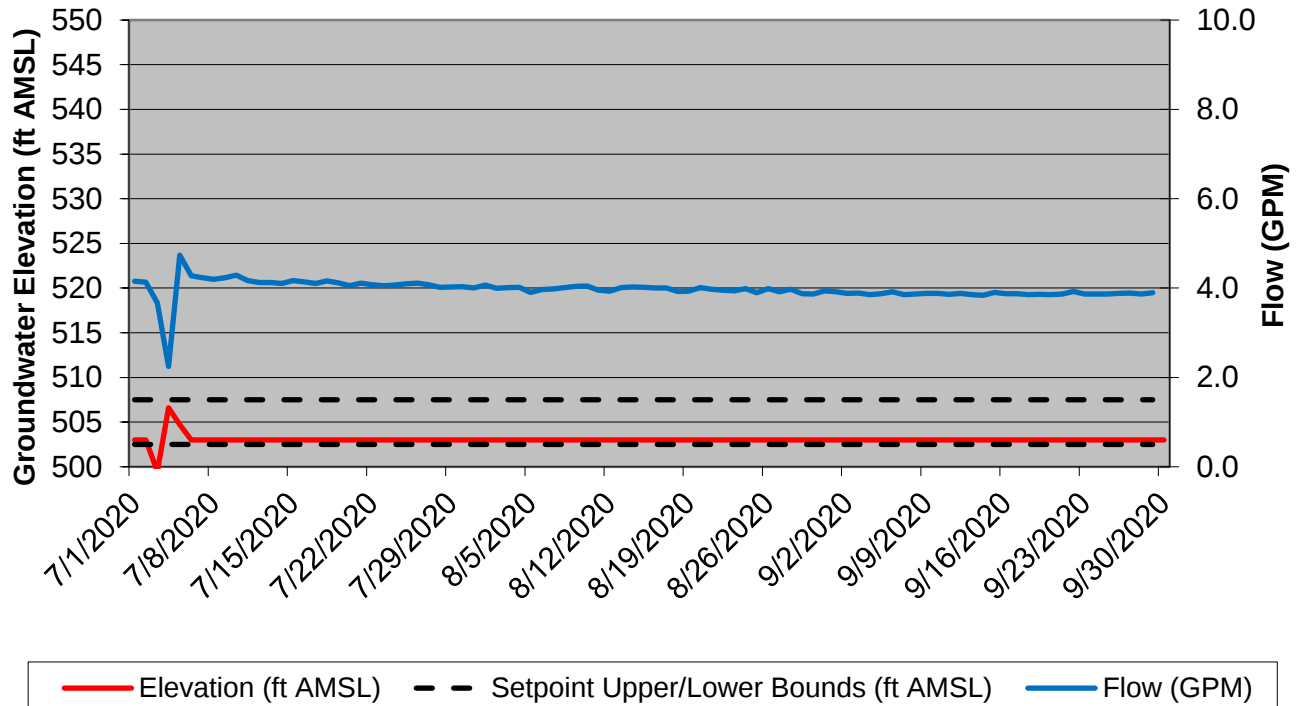


Well PW-5UR

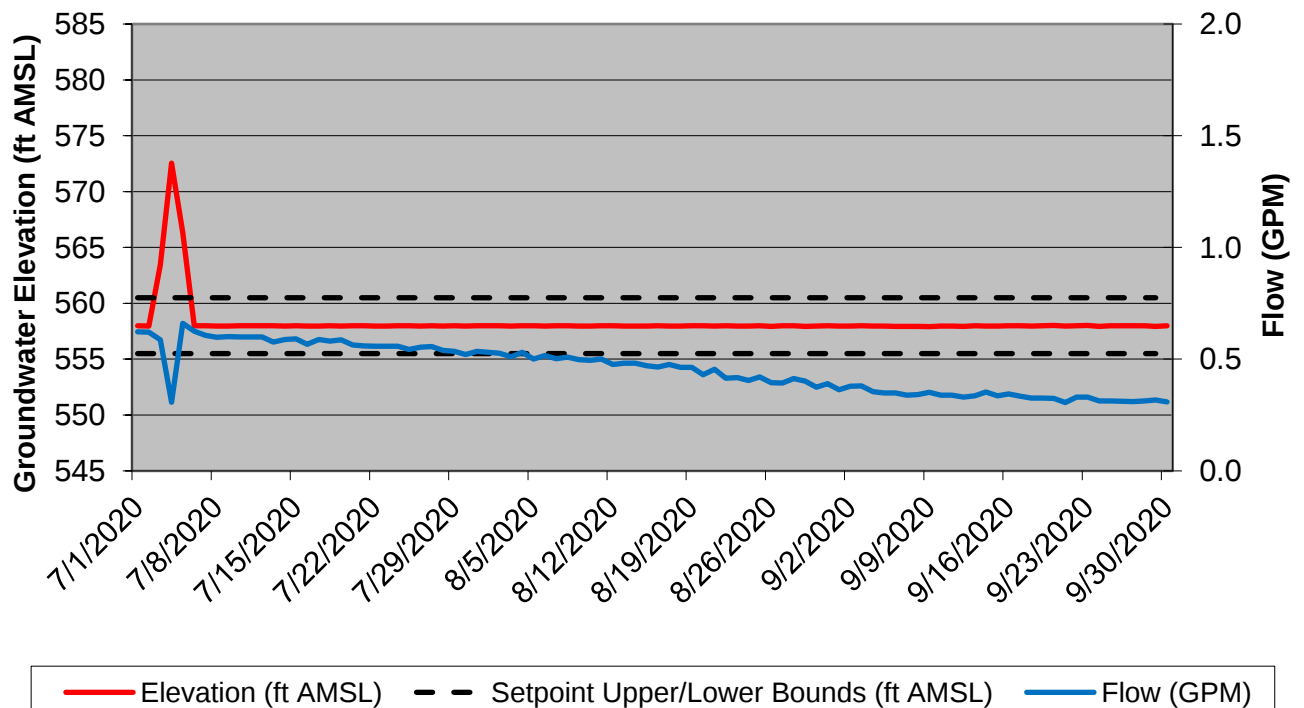


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-6MR

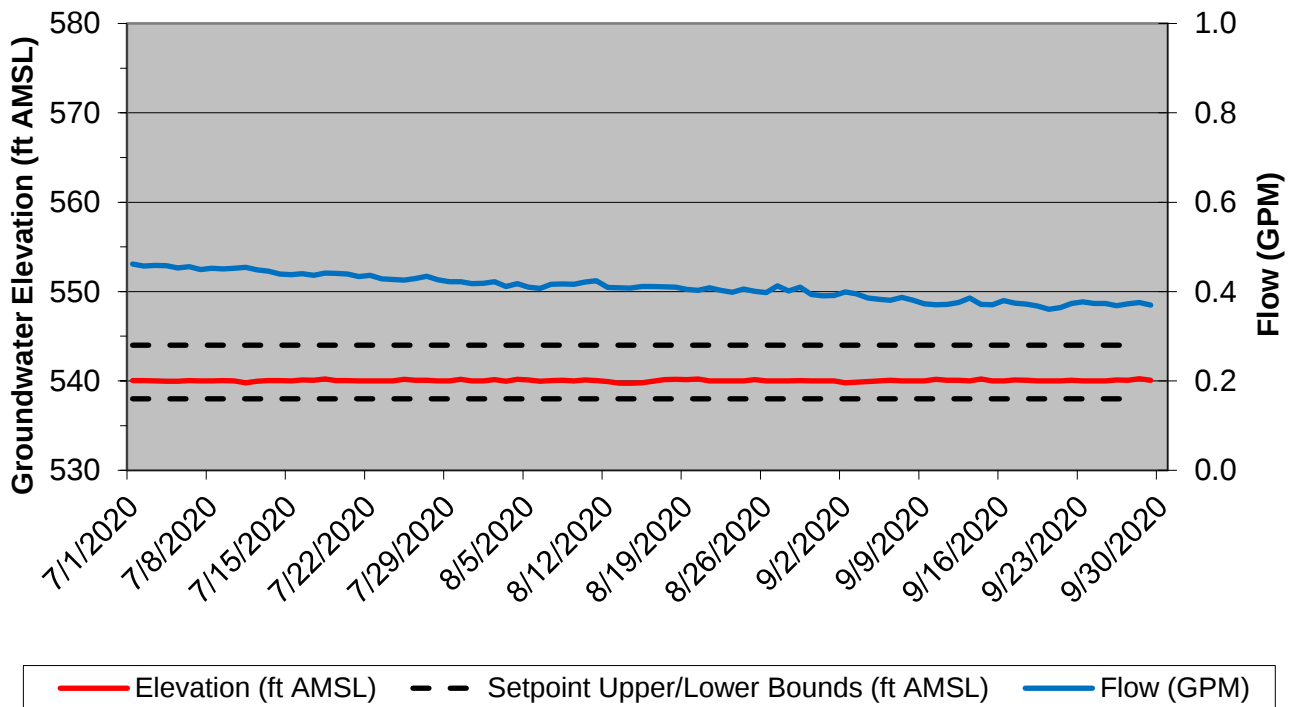


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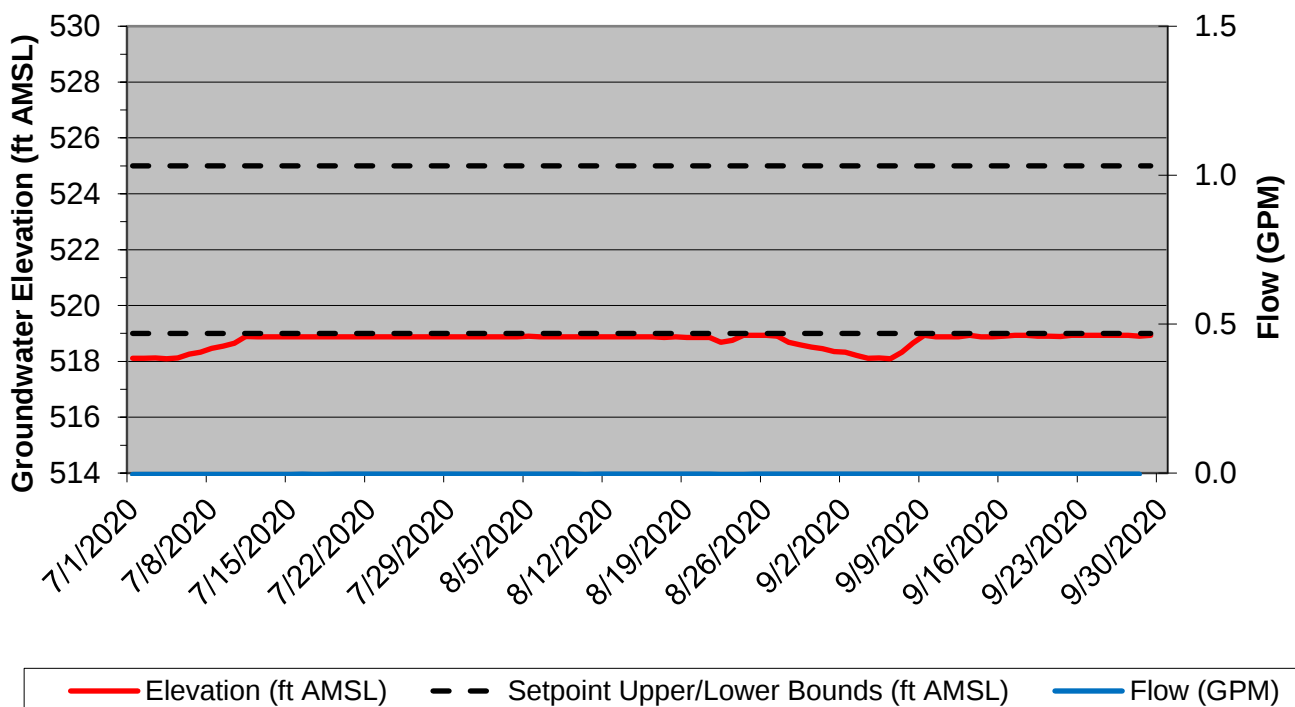


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-7U

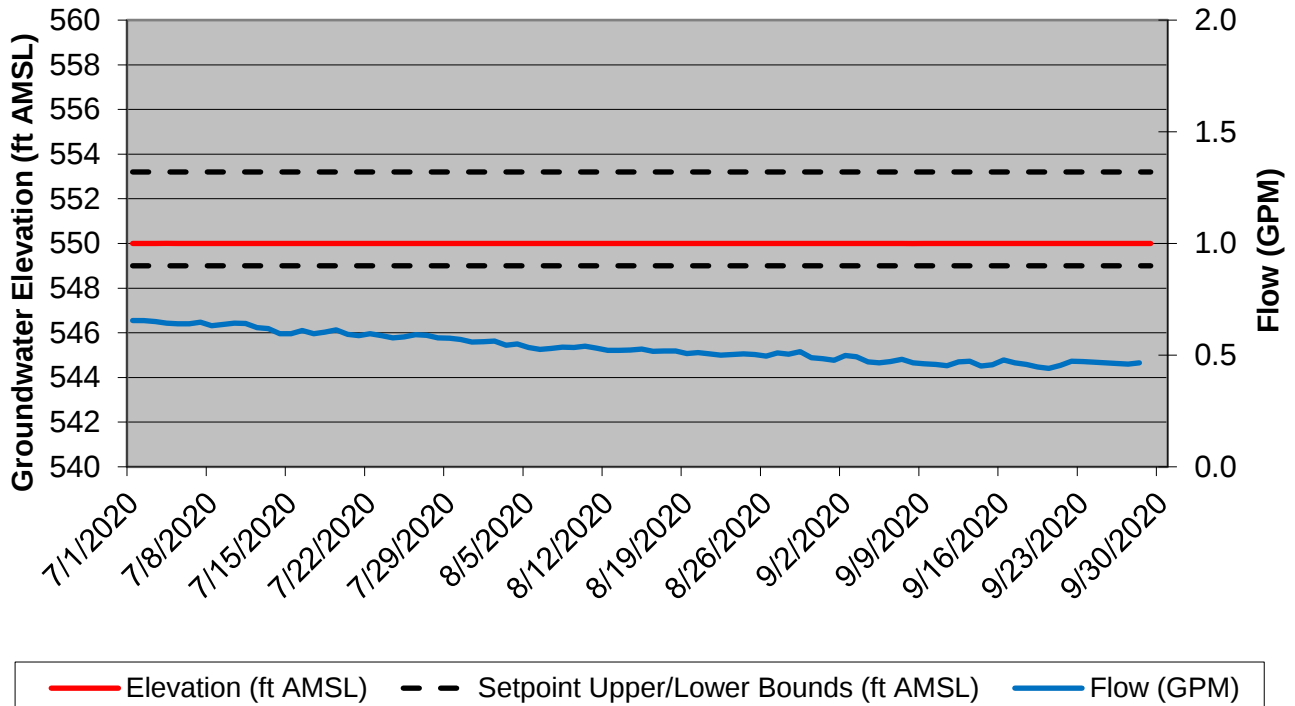


Well PW-8M

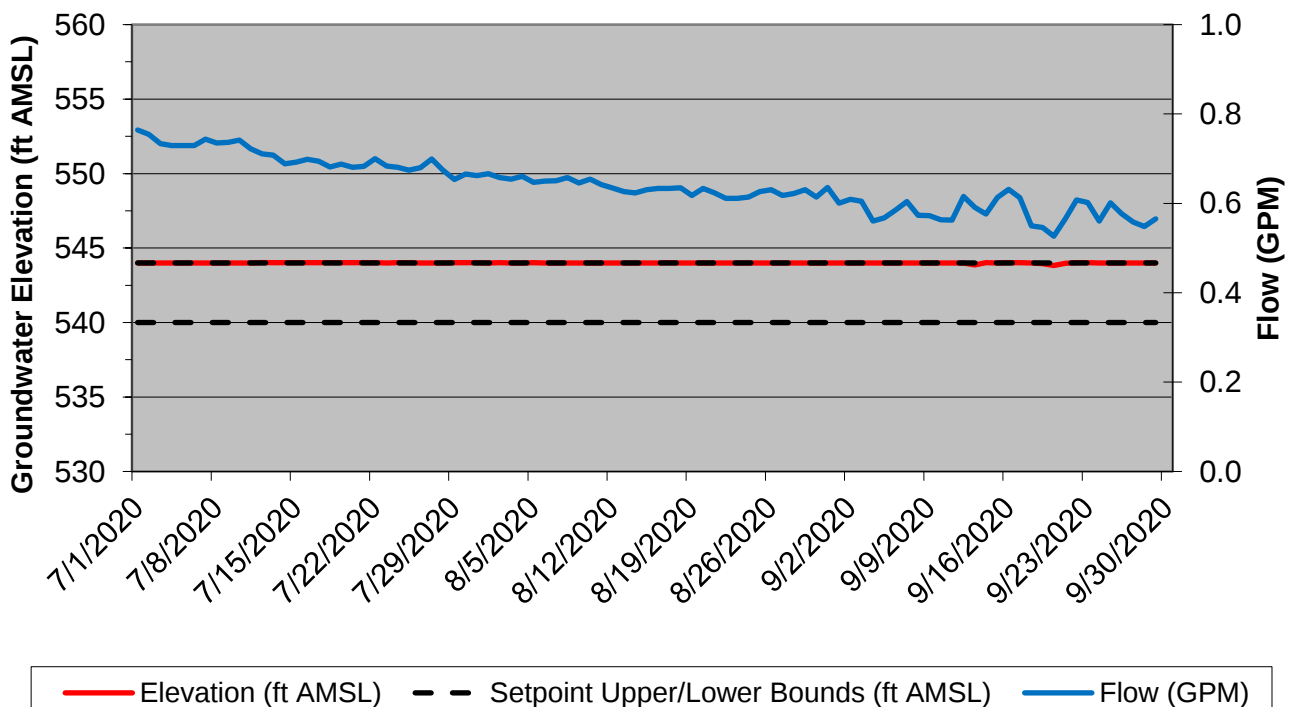


THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

Well PW-8U



Well PW-9U



THIRD QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK

