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

July 31, 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 - Second 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 April 1, 2020 through June 30, 2020. A total of 7.37 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 400 pounds) of non-aqueous phase liquid (NAPL) and one drum (approximately 125 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

As indicated in the previous quarterly operations report, a malfunction occurred in the barometric pressure transducer for the flow zone 9 piezometer PWM-1M-09. A new barometric pressure transducer was installed on April 26, 2020. Water levels recorded from April 26, 2020 through the end of the quarter are presented on Figure 10. These water levels were less than 526 feet above mean sea level (AMSL), indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated during the recording period.

The pumping wells were operational and functioning as designed during the second 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 or resolved during the second quarter of 2020:

- The water levels in PW-1U, PW-2UR, PW-6UR, PW-9U exceeded setpoint range on May 12 due to heavy rain and returned to within setpoint range on May 13.
- The water level in PW-3M exceeded setpoint range on the following dates:
  - May 28 through May 31 due to a pump fault. The pump was repaired on June 1 and the water level returned to within setpoint range on June 1.
  - June 10 and from June 12 through June 25 due to an electrical issue. The electrical issue was repaired and the water level returned to within setpoint range on June 11 and June 26, respectively.
- The water level in PW-4U exceeded setpoint range on the following dates:
  - April 12 and April 19 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on April 13 and April 20, respectively.
  - May 2 through May 5 due to heavy rains and a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on May 6.
  - May 7 and May 8 and from May 10 through May 12 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on May 9 and May 13, respectively. The water level exceeded the setpoint range on May 15 and May 16 as the overall water level was still declining from the pump reset, and returned to within setpoint range on May 17.
- The water level in PW-5UR exceeded setpoint range from June 2 through the end of the quarter due to an unknown issue with the pump. The pump was troubleshooted and the water level began decreasing on June 30.
- The water level in PW-7U exceeded setpoint range from April 1 through April 9 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on April 10.
- The water level in PW-10U exceeded setpoint range on the following dates:
  - April 10 and April 11, April 15, April 22, and from April 25 through April 28 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on April 12, April 16, April 23, and April 29, respectively.
  - May 5 due to heavy rain. The water level returned to within setpoint range on May 6.
  - May 9 through May 12 due to a communication issue with the pump, and from May 12 through May 26 while awaiting repairs to the variable frequency drive (VFD). The water level returned to within setpoint range on May 27.
  - June 15 and June 21 due to a pump fault. The pump was reset and the water level returned to within setpoint range on June 16 and June 22, respectively.
- The water level in APW-1 exceeded setpoint range on the following dates:
  - April 2, April 6 through April 9, April 12, April 28, and from April 30 through May 4 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on April 3, April 10, April 13, April 29, and May 5, respectively.
  - May 13 due to heavy rain. The water level returned to within setpoint range on May 14.

- May 20 and 21, June 2 through June 4, and June 13 due to a communication issue with the pump. The pump was reset and the water level returned to within setpoint range on May 22, June 5, and June 14, respectively.

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/eew/6
Encl.

cc: G. May, NYSDEC
J. Robinson, NYSDOH
J. Pentilchuk, GHD
D. Hoyt, GHD
M. Popek, GHD

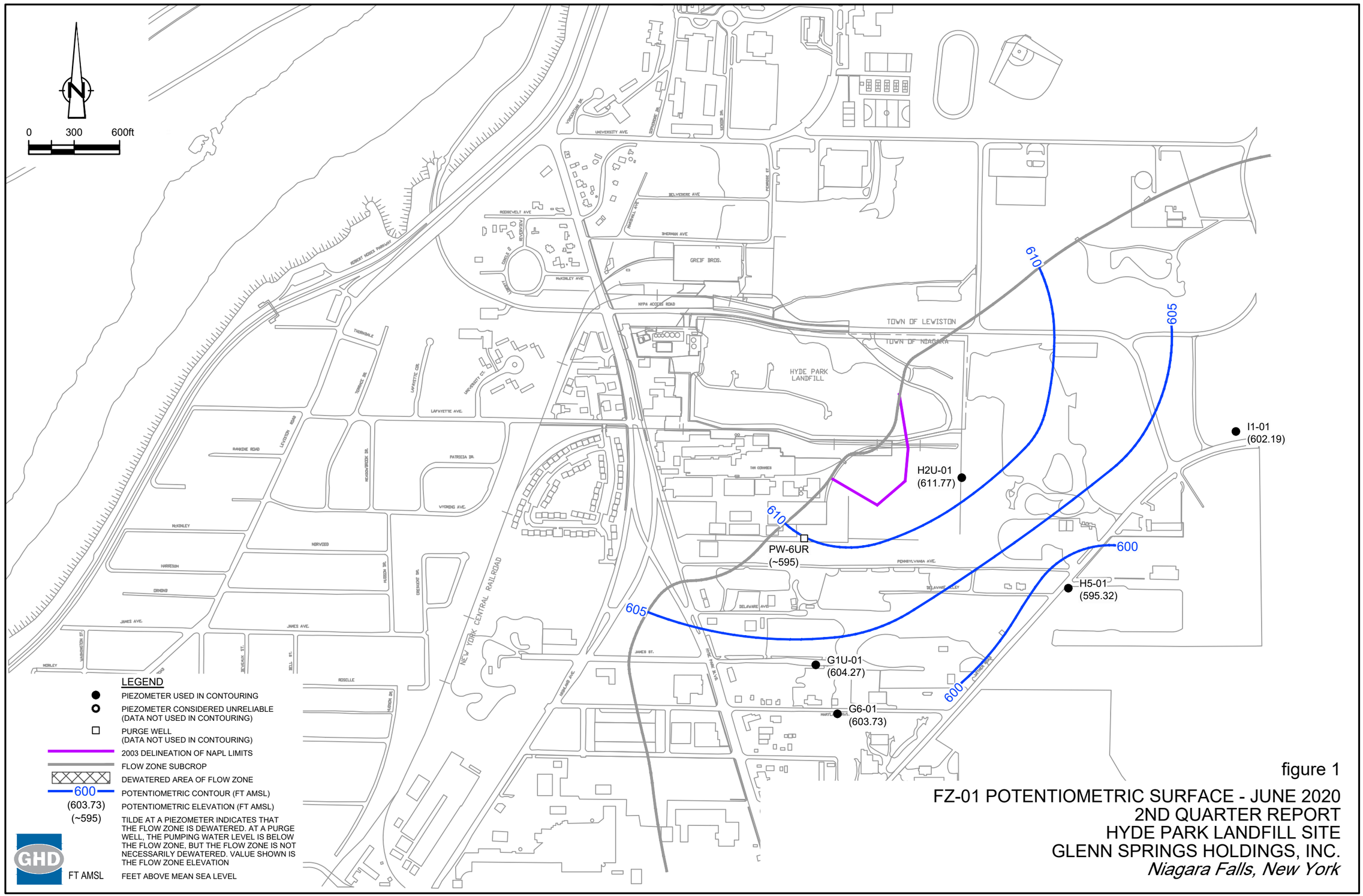


figure 1

FZ-01 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA001.DWG Plot Date: JUL 28, 2020

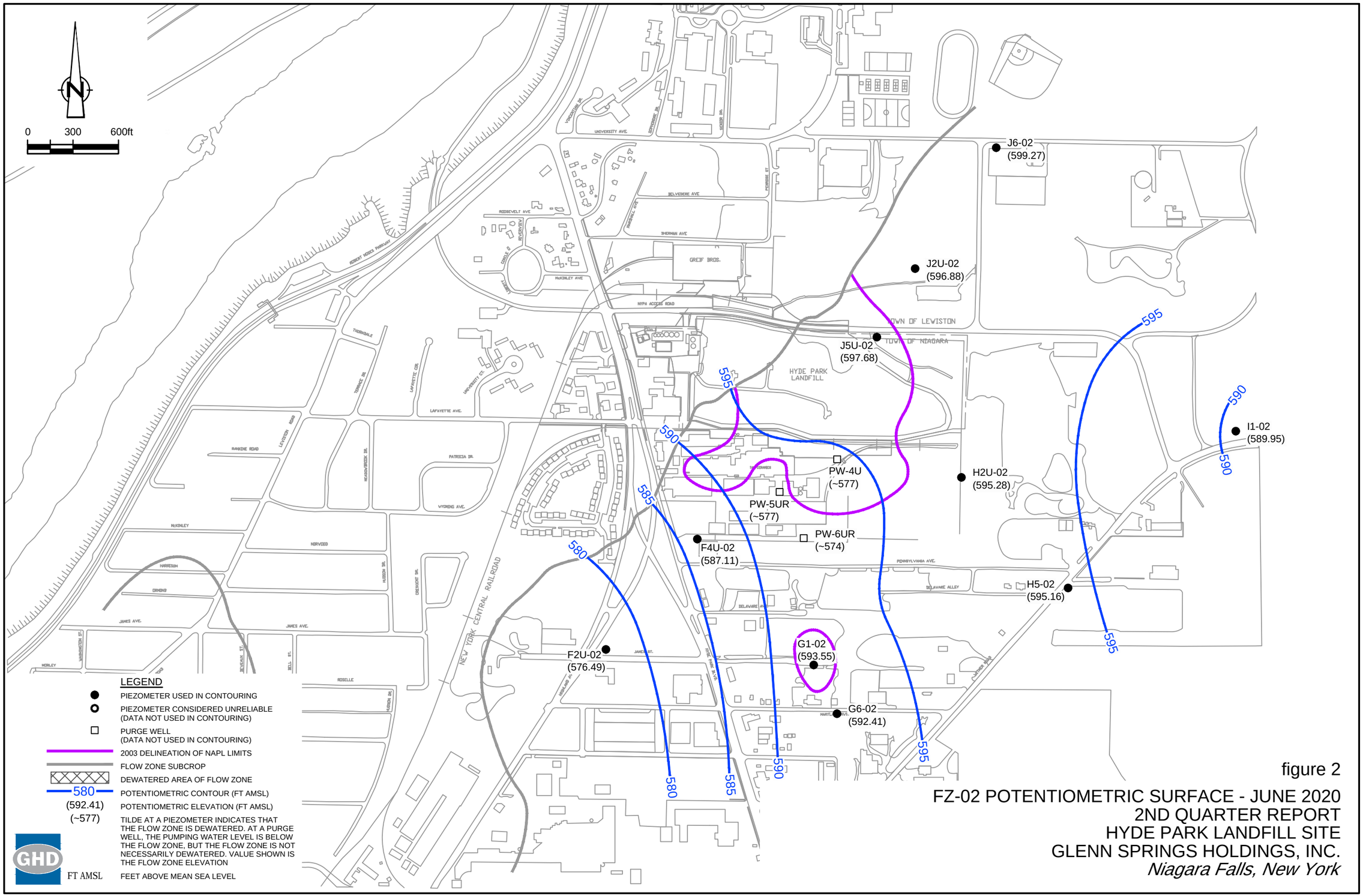


figure 2

FZ-02 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA002.DWG Plot Date: JUL 27, 2020

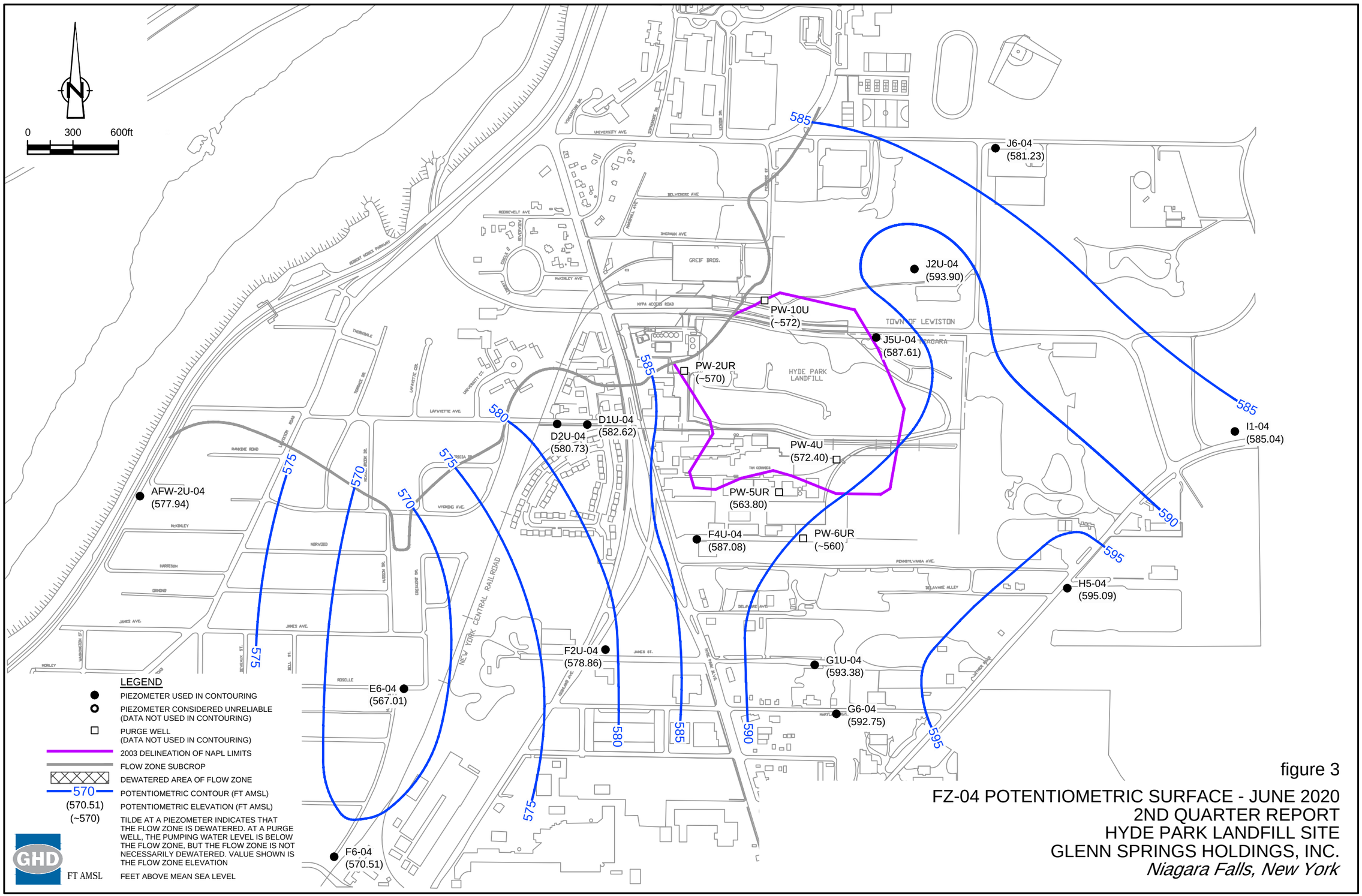


figure 3

FZ-04 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA003.DWG Plot Date: JUL 27, 2020

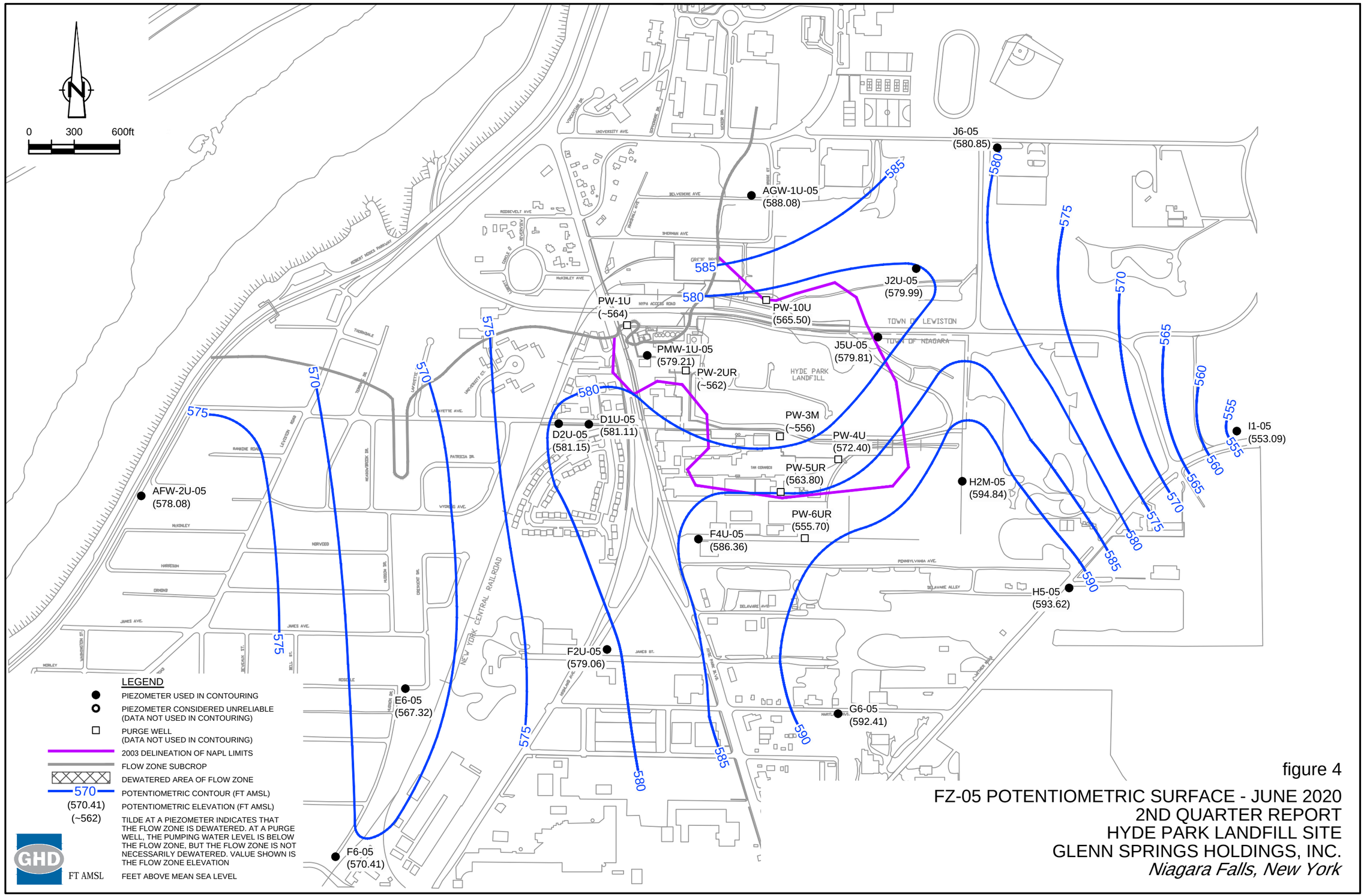


figure 4

FZ-05 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA004.DWG Plot Date: JUL 28, 2020

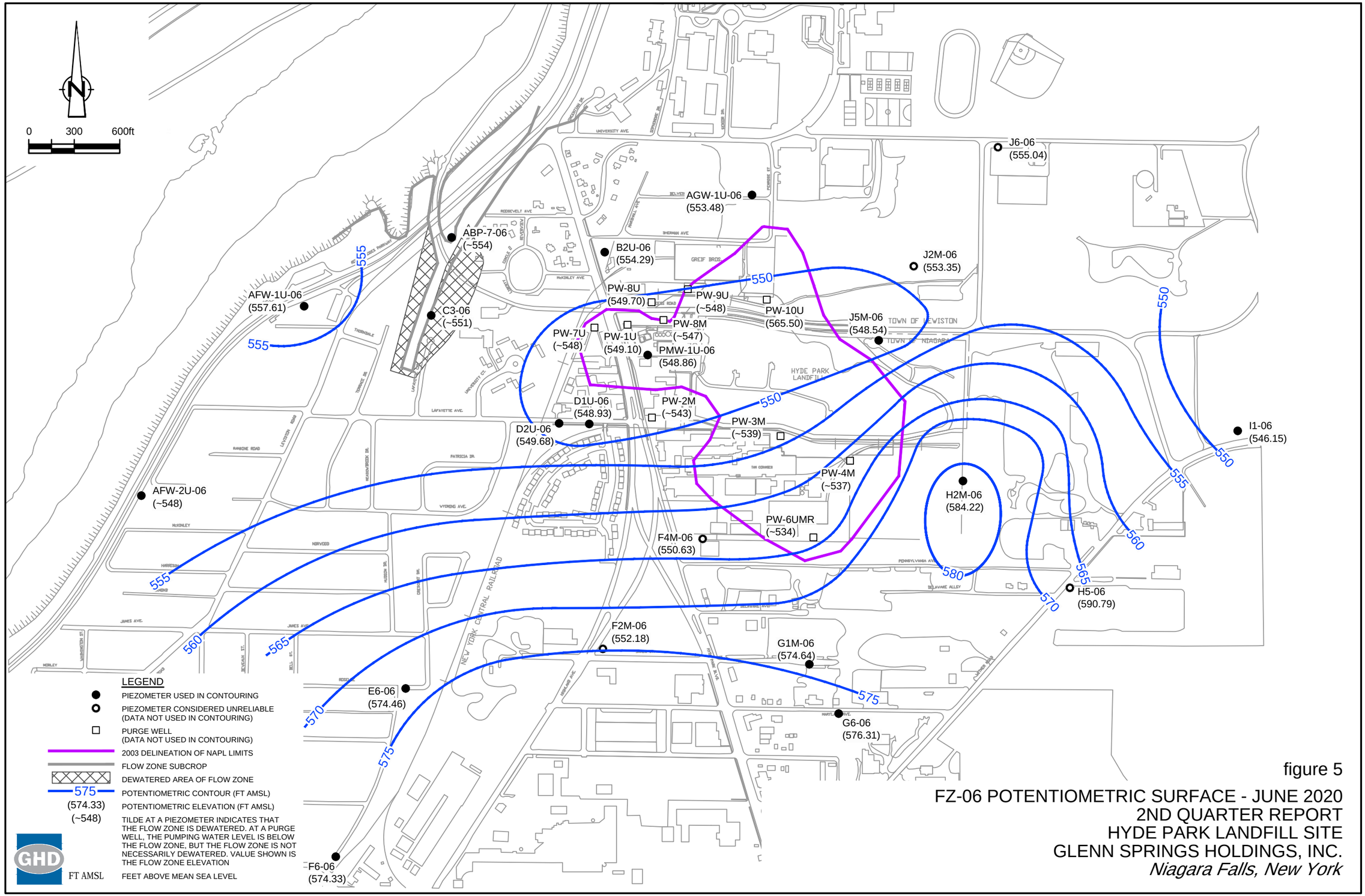


figure 5

FZ-06 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA005.DWG Plot Date: JUL 27, 2020

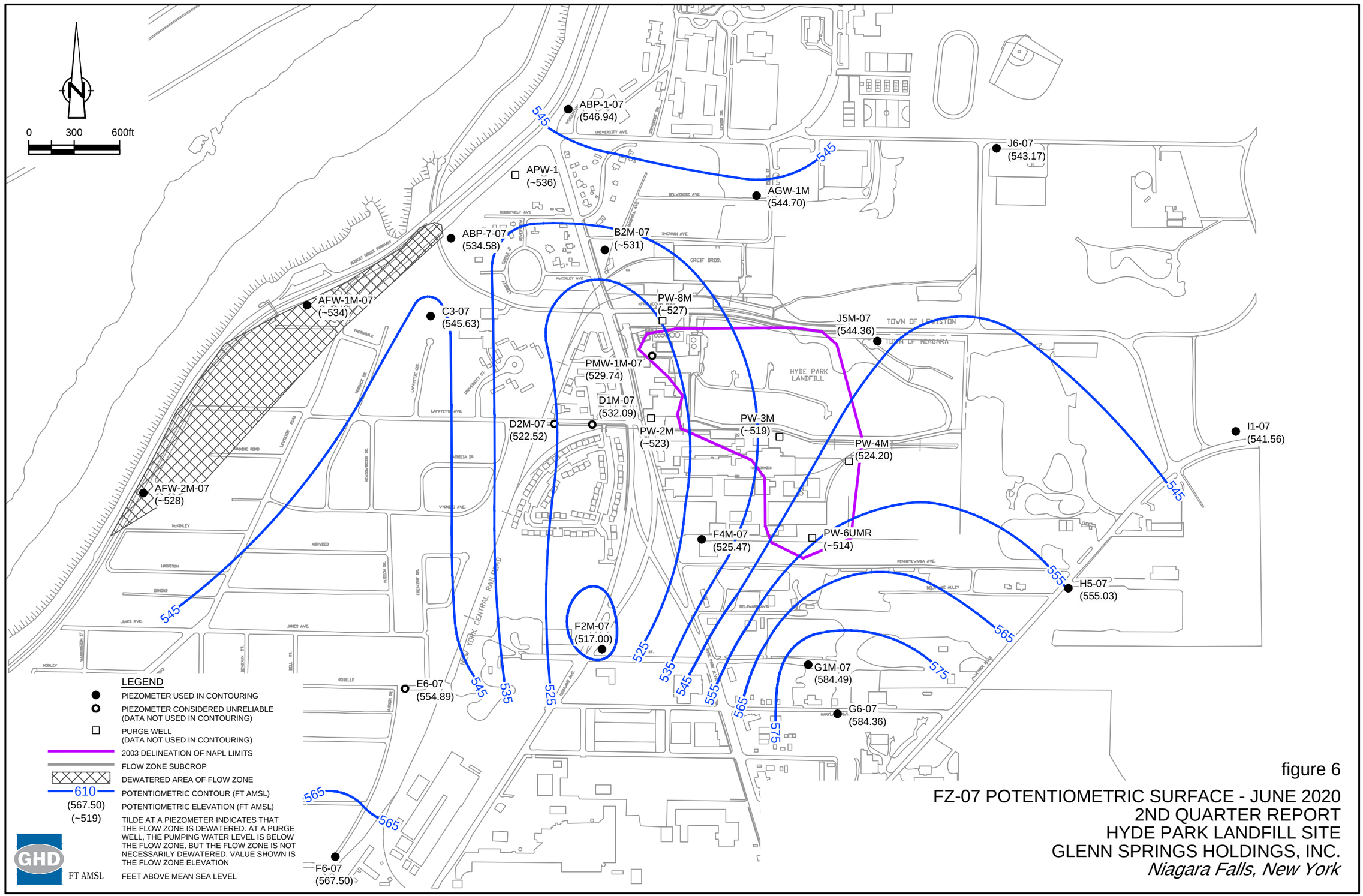


figure 6

FZ-07 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA006.DWG Plot Date: JUL 27, 2020

0 300 600ft

ABP-1-09 (534.63)
APW-1 (~527)
APW-2 (~526)
ABP-7-09 (534.06)
AGW-1M-09 (544.72)
J6-09 (564.92)
B2M-09 (530.62)
J2M-09 (543.53)
AFW-1M-09 (525.59)
C3-09 (543.12)
PW-1L (~519)
PW-8M (518.70)
PMW-1M-09 (516.09)
J5M-09 (544.36)
PW-2M (~514)
D1M-09 (516.20)
D2M-09 (516.13)
PW-3M (518.10)
PW-4M (524.20)
I1-09 (563.48)
AFW-2M-09 (521.11)
H2M-09 (551.63)
F4M-09 (515.89)
PW-6UMR (~506)
H5-09 (542.72)
F2M-09 (515.89)
G1M-09 (581.99)
E6-09 (553.19)
G6-09 (585.17)
F6-09 (572.23)

530 540 530 520 530 520 540 550 560 570 580 550 560 570 580

TOWN OF LEWISTON
TOWN OF NIAGARA
HYDE PARK LANDFILL
NEW YORK CENTRAL RAILROAD
UNIVERSITY AVE.
BEL-VEDERE AVE.
SHERMAN AVE.
GREIF BROS.
LPDA ACCESS ROAD
LAFAYETTE AVE.
RANKINE ROAD
LAVERGNE ROAD
MEADOWBROOK DR.
PATRICIA DR.
WYOMING AVE.
McKINLEY
NORWOOD
HARRISON
DENNING
JAMES AVE.
HORLEY
ROSELLE
PENNSYLVANIA AVE.
DELAWARE ALLEY
DELAWARE AVE.
MARTLE AVE.

LEGEND

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- DEWATERED AREA OF FLOW ZONE
- 550 — POTENTIOMETRIC CONTOUR (FT AMSL)
- (572.23) (~514) — POTENTIOMETRIC ELEVATION (FT AMSL)
- 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
- FT AMSL — FEET ABOVE MEAN SEA LEVEL

figure 7

FZ-09 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA007.DWG Plot Date: JUL 28, 2020

0 300 600ft

APW-1 (517.10)
APW-2 (512.30)
AGW-1L-11 (583.63)
B2L-11 (501.83)
J6-11 (587.21)
AFW-1L-11 (509.18)
PW-1L (499.40)
PMW-1L-11 (513.51)
J5L-11 (555.81)
PW-2L (493.90)
D1L-11 (503.82)
D2L-11 (523.58)
PW-3L (500.90)
I1-11 (545.36)
AFW-2L-11 (497.20)
H2L-11 (560.22)
F4L-11 (571.81)
H5-11 (541.99)
F2L-11 (554.43)
G1L-11 (590.94)
E6-11 (534.72)
G6-11 (593.36)
F6-11 (529.81)

505 515 525 535 545 555 565 575 585

TOWN OF LEWISTON
HYDE PARK LANDFILL
NEW YORK CENTRAL RAILROAD

LEGEND

- PIEZOMETER USED IN CONTOURING
- PIEZOMETER CONSIDERED UNRELIABLE (DATA NOT USED IN CONTOURING)
- PURGE WELL (DATA NOT USED IN CONTOURING)
- 2003 DELINEATION OF NAPL LIMITS
- FLOW ZONE SUBCROP
- DEWATERED AREA OF FLOW ZONE
- 520 — POTENTIOMETRIC CONTOUR (FT AMSL)
- (529.81) (~525) — POTENTIOMETRIC ELEVATION (FT AMSL)
- 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
- FT AMSL — FEET ABOVE MEAN SEA LEVEL

figure 8

FZ-11 POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA008.DWG Plot Date: JUL 27, 2020

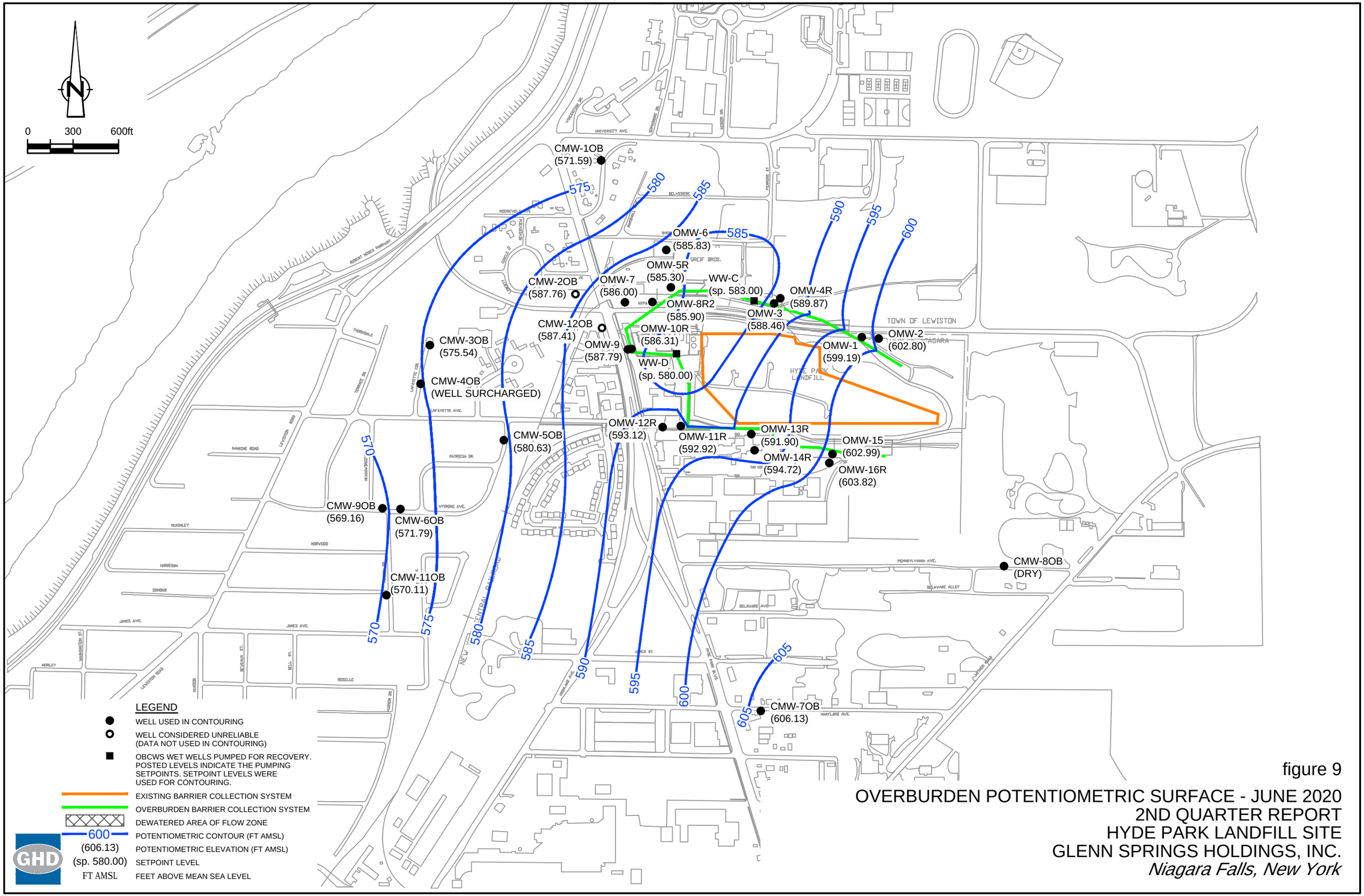


figure 9

OVERBURDEN POTENTIOMETRIC SURFACE - JUNE 2020
2ND QUARTER REPORT
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

N:\CA\Waterloo\Legacy\CAD\drawings\01000s\01069\01069-corr\01069-30-403(KOSA006)\01069-30-403(KOSA006)GN\01069-30-403(KOSA006)GN-WA009.DWG Plot Date: JUL 27, 2020

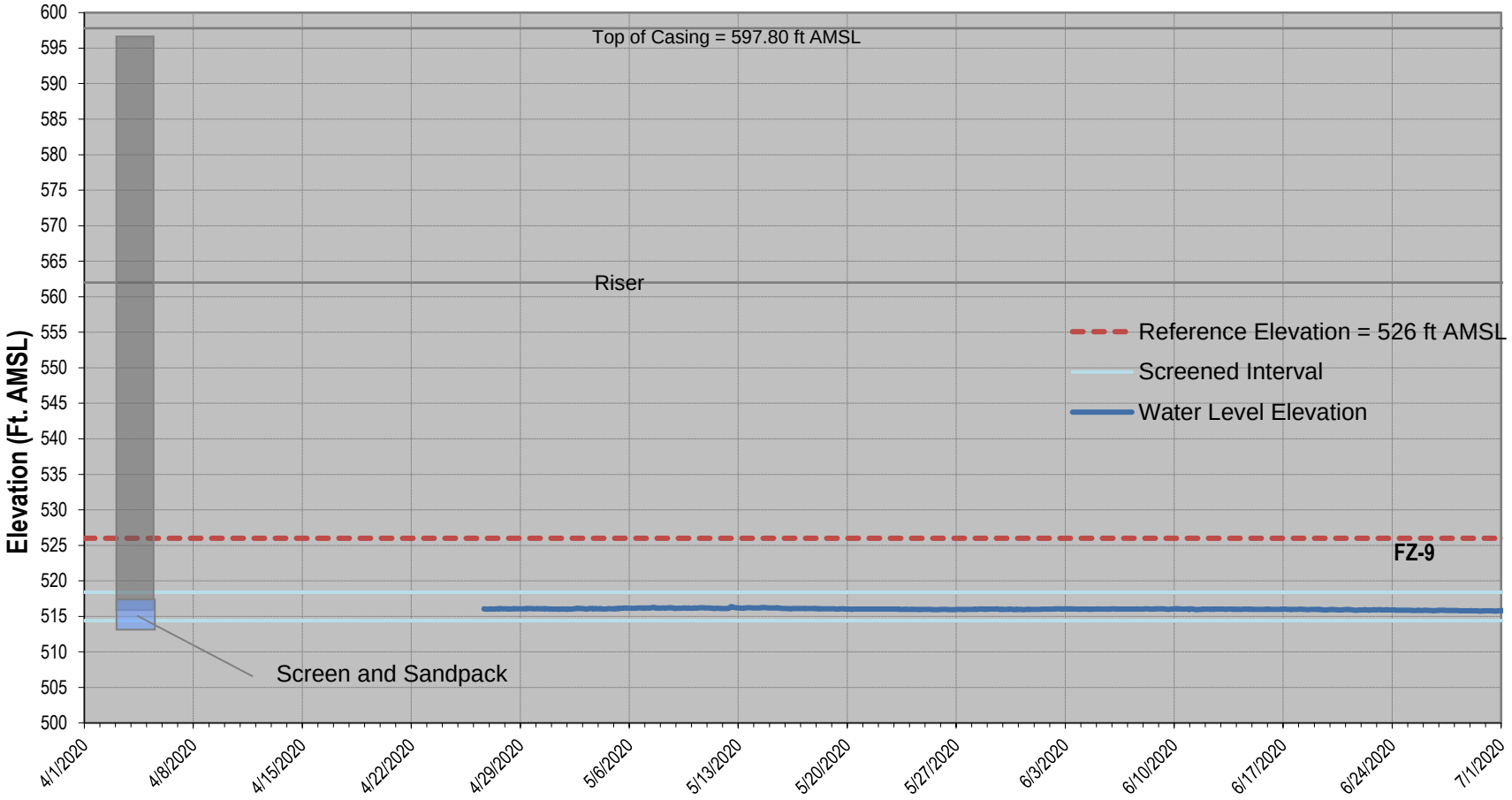


figure 10

PMW-1M-09 2nd Quarter 2020 - Hourly Water Level Elevation
2nd 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
Second 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	3.03	587.76
CMW-3OB	582.13	6.59	575.54
CMW-4OB	574.28	Surcharged	574.28
CMW-5OB	583.43	2.80	580.63
CMW-6OB	571.89	0.10	571.79
CMW-7OB	611.00	4.87	606.13
CMW-8OB	616.11	Dry	-
CMW-9OB	571.76	2.60	569.16
CMW-1OB	576.80	5.21	571.59
CMW-11OB	572.85	2.74	570.11
CMW-12OB	594.74	7.33	587.41
MH20	605.87	4.68	601.19
MH21	599.77	6.10	593.67
MH22	593.37	6.81	586.56
MH23	587.05	12.11	574.94
MH24	582.57	7.55	575.02
MH25	583.82	7.18	576.64
MH26	584.48	Dry	-
MH27	586.12	10.68	575.44
MH28	585.23	16.59	568.64
MH29	604.58	15.08	589.50
MH30	599.49	10.03	589.46
MH31	590.10	9.57	580.53
MH32	592.01	9.65	582.36
MH33	592.51	8.70	583.81
MH34	598.34	7.13	591.21
MH35	605.69	6.55	599.14
MH35A	605.69	7.15	598.54
OMW-1	605.28	6.09	599.19
OMW-2	605.99	3.19	602.80
OMW-3	598.63	10.17	588.46
OMW-4R	601.17	11.30	589.87
OMW-5R	591.31	6.01	585.30
OMW-6	587.62	1.79	585.83
OMW-7	592.74	6.74	586.00
OMW-8R2	594.67	8.77	585.90
OMW-9	595.27	7.48	587.79
OMW-10R	595.13	8.82	586.31
OMW-11R	597.52	4.60	592.92
OMW-12R	596.71	3.59	593.12
OMW-13R	601.50	9.60	591.90
OMW-14R	599.64	4.92	594.72
OMW-15	607.48	4.49	602.99
OMW-16R	607.62	3.80	603.82
SC-2	625.61	22.86	602.75
SC-3	638.72	40.41	598.31
SC-4	639.35	39.02	600.33
SC-5	634.07	31.56	602.51
SC-6	631.15	19.04	612.11

Table 1

Water Level Elevation Summary
Second 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	11.43	564.68
CMW-2SH	590.51	17.51	573.00
CMW-3SH	581.91	27.18	554.73
CMW-4SH	574.16	6.70	567.46
CMW-5SH	583.36	6.70	576.66
CMW-6SH	572.05	9.70	562.35
CMW-7SH	610.58	11.86	598.72
CMW-8SH	615.95	6.09	609.86
CMW-9SH	571.96	11.61	560.35
CMW-11SH	573.21	7.82	565.39
CMW-12SH	597.02	24.86	572.16
Flow Zone 1			
G1U-01	617.08	12.81	604.27
G6-01	609.24	5.51	603.73
H2U-01	620.92	9.15	611.77
H5-01	617.61	22.29	595.32
I1-01	625.58	23.39	602.19
Flow Zone 2			
F2U-02	599.89	23.40	576.49
F4U-02	602.32	15.21	587.11
G1-02	616.86	23.31	593.55
G6-02	608.65	16.24	592.41
H2U-02	620.88	25.60	595.28
H5-02	617.47	22.31	595.16
I1-02	625.47	35.52	589.95
J2U-02	609.66	12.78	596.88
J5U-02	606.21	8.53	597.68
J6-02	609.23	9.96	599.27
Flow Zone 4			
AFW-2U-04	593.48	15.54	577.94
D1U-04	593.77	11.15	582.62
D2U-04	590.65	9.92	580.73
E6-04	578.23	11.22	567.01
F2U-04	599.76	20.90	578.86
F4U-04	602.19	15.11	587.08
F6-04	588.06	17.55	570.51
G1U-04	616.96	23.58	593.38
G6-04	609.15	16.40	592.75
H5-04	617.40	22.31	595.09
I1-04	625.30	40.26	585.04
J2U-04	609.42	15.52	593.90
J5U-04	606.05	18.44	587.61
J6-04	609.12	27.89	581.23

Table 1

Water Level Elevation Summary
Second 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	15.25	578.08
AGW-1U-05	591.80	3.72	588.08
D1U-05	593.51	12.40	581.11
D2U-05	590.56	9.41	581.15
E6-05	578.04	10.72	567.32
F2U-05	599.64	20.58	579.06
F4U-05	602.06	15.70	586.36
F6-05	587.85	17.44	570.41
G6-05	609.13	16.72	592.41
H2M-05	621.59	26.75	594.84
H5-05	617.31	23.69	593.62
I1-05	625.25	72.16	553.09
J2U-05	609.30	29.31	579.99
J5U-05	605.87	26.06	579.81
J6-05	609.02	28.17	580.85
PMW-1U-05	598.00	18.79	579.21
Flow Zone 6			
ABP-7-06	575.78	Dry	-
AFW-1U-06	571.83	14.22	557.61
AFW-2U-06	593.22	47.97	545.25
AGW-1U-06	591.66	38.18	553.48
B2U-06	589.29	35.00	554.29
C3-06	585.78	37.41	548.37
D1U-06	593.25	44.32	548.93
D2U-06	590.38	40.70	549.68
E6-06	577.99	3.53	574.46
F2M-06	599.06	46.88	552.18
F4M-06	602.05	51.42	550.63
F6-06	587.84	13.51	574.33
G1M-06	616.75	42.11	574.64
G6-06	609.09	32.78	576.31
H2M-06	621.42	37.20	584.22
H5-06	617.17	26.38	590.79
I1-06	625.15	79.00	546.15
J2M-06	608.94	55.59	553.35
J5M-06	606.22	57.68	548.54
J6-06	608.93	53.89	555.04
PMW-1U-06	597.92	49.06	548.86

Table 1

Water Level Elevation Summary
Second 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	28.26	546.94
ABP-7-07	575.73	41.15	534.58
AFW-1M-07	571.41	Dry	-
AFW-2M-07	593.44	66.76	526.68
AGW-1M-07	592.91	48.21	544.70
B2M-07	589.52	59.18	530.34
C3-07	585.62	39.99	545.63
D1M-07	594.15	62.06	532.09
D2M-07	590.77	68.25	522.52
E6-07	577.91	23.02	554.89
F2M-07	598.91	81.91	517.00
F4M-07	601.91	76.44	525.47
F6-07	587.68	20.18	567.50
G1M-07	616.68	32.19	584.49
G6-07	609.06	24.70	584.36
H5-07	617.05	62.02	555.03
I1-07	625.14	83.58	541.56
J5M-07	606.07	61.71	544.36
J6-07	608.85	65.68	543.17
PMW-1M-07	598.50	68.76	529.74
Flow Zone 9			
ABP-1-09	575.19	40.56	534.63
ABP-7-09	575.67	41.61	534.06
AFW-1M-09	571.12	45.53	525.59
AFW-2M-09	593.32	72.21	521.11
AGW-1M-09	592.75	48.03	544.72
B2M-09	589.34	58.72	530.62
C3-09	585.00	41.88	543.12
D1M-09	594.02	77.82	516.20
D2M-09	590.66	74.53	516.13
E6-09	577.82	24.63	553.19
F2M-09	598.71	82.82	515.89
F4M-09	601.79	85.90	515.89
F6-09	587.53	15.30	572.23
G1M-09	616.58	34.59	581.99
G6-09	608.98	23.81	585.17
H2M-09	621.32	69.69	551.63
H5-09	616.93	74.21	542.72
I1-09	624.91	61.43	563.48
J2M-09	608.77	65.24	543.53
J5M-09	605.82	61.46	544.36
J6-09	608.76	43.84	564.92
PMW-1M-09	598.34	82.25	516.09

Table 1

Water Level Elevation Summary
Second 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	62.92	509.18
AFW-2L-11	593.43	96.23	497.20
AGW-1L-11	592.71	9.08	583.63
B2L-11	589.65	87.82	501.83
D1L-11	593.80	89.98	503.82
D2L-11	590.21	66.63	523.58
E6-11	577.72	43.00	534.72
F2L-11	598.94	44.51	554.43
F4L-11	602.22	30.41	571.81
F6-11	587.40	57.59	529.81
G1L-11	616.84	25.90	590.94
G6-11	608.89	15.53	593.36
H2L-11	620.73	60.51	560.22
H5-11	616.81	74.82	541.99
I1-11	624.75	79.39	545.36
J5L-11	607.20	51.39	555.81
J6-11	608.68	21.47	587.21
PMW-1L-11	598.84	85.33	513.51
Purge Wells			
APW-1	564.98	47.88	517.10
APW-2	569.89	57.59	512.30
PW-1L	593.16	93.76	499.40
PW-1U	593.50	44.40	549.10
PW-2L	597.29	103.39	493.90
PW-2M	596.61	84.71	511.90
PW-2UR	594.75	35.15	559.60
PW-3L	599.05	98.15	500.90
PW-3M	597.79	79.69	518.10
PW-4M	606.93	82.73	524.20
PW-4U	604.85	32.45	572.40
PW-5UR	601.31	37.51	563.80
PW-6UMR	609.31	106.01	503.30
PW-6UR	608.47	52.77	555.70
PW-7U	592.47	52.07	540.40
PW-8M	592.67	73.97	518.70
PW-8U	589.27	39.57	549.70
PW-9U	587.47	42.97	544.50
PW-10U	593.54	28.04	565.50

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
Second Quarter - 2020
Hyde Park RRT Program

	Effluent	
Date	**pH**	**Flow**
	(su)	(gal)
04/01/20	7.0	207,000
04/02/20	7.0	9,000
04/03/20		
04/04/20		
04/05/20		
04/06/20	6.7	251,000
04/07/20	7.0	274,000
04/08/20	7.0	47,000
04/09/20	7.0	160,000
04/10/20	7.0	202,000
04/11/20		
04/12/20		
04/13/20		
04/14/20	7.0	242,000
04/15/20	7.0	278,000
04/16/20	7.0	24,000
04/17/20	7.0	246,000
04/18/20		
04/19/20		
04/20/20		
04/21/20	6.7	203,000
04/22/20	6.9	230,000
04/23/20	7.0	46,000
04/24/20	7.0	57,000
04/25/20		
04/26/20		
04/27/20	7.1	225,000
04/28/20		
04/29/20	7.1	225,000
04/30/20	7.0	140,000
05/01/20	7.0	54,000
05/02/20		
05/03/20		
05/04/20	7.0	212,000
05/05/20	7.1	223,000
05/06/20	7.1	216,000
05/07/20	7.0	210,000

Table 2

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

	Effluent	
Date	**pH**	**Flow**
	(su)	(gal)
05/08/20	7.1	31,000
05/09/20		
05/10/20		
05/11/20	7.0	172,000
05/12/20	7.0	197,000
05/13/20	7.0	22,000
05/14/20	7.0	178,000
05/15/20		
05/16/20		
05/17/20		
05/18/20		
05/19/20	7.0	249,000
05/20/20		
05/21/20	7.1	246,000
05/22/20		
05/23/20		
05/24/20		
05/25/20		
05/26/20	7.0	222,000
05/27/20	6.9	51,000
05/28/20		
05/29/20		
05/30/20		
05/31/20		
06/01/20	6.8	202,000
06/02/20	7.0	240,000
06/03/20	7.0	181,000
06/04/20	7.0	17,000
06/05/20	7.0	48,000
06/06/20		
06/07/20		
06/08/20	7.1	48,000
06/09/20		
06/10/20	7.0	239,000
06/11/20	7.1	162,000
06/12/20		
06/13/20		

Table 2

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

	Effluent	
Date	**pH**	**Flow**
	(su)	(gal)
06/14/20		
06/15/20		
06/16/20	7.1	203,000
06/17/20	6.0	52,000
06/18/20		
06/19/20	7.1	33,000
06/20/20		
06/21/20		
06/22/20	7.0	154,000
06/23/20	7.1	206,000
06/24/20	7.0	10,000
06/25/20		
06/26/20		
06/27/20		
06/28/20		
06/29/20	7.0	227,000
06/30/20		
	Total	7,371,000

Notes:

su - Standard Unit
gal - Gallons

Table 3

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

Effluent

Parameter	Units	04/01/2020	04/08/2020	04/15/2020	04/22/2020	04/29/2020	05/06/2020	05/13/2020
Volatiles								
1,1,1-Trichloroethane	µg/L	1.2	1.4	1.0	1.0	1.2	0.99 J	1.1
1,1,2,2-Tetrachloroethane	µg/L	13	14	10	11	12	14	17
1,1,2-Trichloroethane	µg/L	1.0	1.1	0.84 J	1.0	1.1	0.98 J	1.3
1,1-Dichloroethane	µg/L	3.2	3.4	3.5	3.8	4.0	3.9	3.8
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
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	6.5	7.6	6.9	7.7	8.7	8.2	8.7
1,2-Dichloropropane	µg/L	0.76 J	0.82 J	0.77 J	0.89 J	1.1	1.1	0.94 J
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
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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
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
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
Benzene	µg/L	19	18	15	16	18	21	24
Bromodichloromethane	µg/L	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
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
Carbon disulfide	µg/L	10	11	9.2	25	26	20	44
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
Chlorobenzene	µg/L	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
Chloroform (Trichloromethane)	µg/L	5.9	6.7	3.2	3.4	3.8	2.6	3.4
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
cis-1,2-Dichloroethene	µg/L	2.6	2.5	2.3	2.7	2.8	3.2	3.3
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
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
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 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
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
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
o-Xylene	µg/L	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
Styrene	µg/L	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	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.37 J	0.26 J	1.0 U	1.0 U	0.22 J	0.25 J	0.32 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J
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
Trichloroethene	µg/L	0.40 J	0.38 J	0.27 J	0.48 J	0.40 J	0.50 J	0.69 J
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
Vinyl acetate	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	µg/L	120	150	150	160	180	160	150
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
General Chemistry								
Phenolics (total)	mg/L	0.0219	0.0357	0.0072	0.0081	0.0108	0.0043 J	0.0149

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
mg/L - Milligrams per liter
µg/L - Micrograms per liter

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

Effluent

Parameter	Units	05/20/2020	05/27/2020	06/03/2020	06/09/2020	06/16/2020	06/24/2020
Volatiles							
1,1,1-Trichloroethane	µg/L	0.97 J	0.90 J	1.2	0.82 J	0.83 J	0.90 J
1,1,2,2-Tetrachloroethane	µg/L	13	9.5	19	8.8	9.4	14
1,1,2-Trichloroethane	µg/L	1.2	0.86 J	1.6	1.0 J	0.98 J	1.5 J
1,1-Dichloroethane	µg/L	3.9	4.5	4.8	4.4	4.9	5.4
1,1-Dichloroethene	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	µg/L	8.5	7.7	10	8.5	7.9	10
1,2-Dichloropropane	µg/L	1.3	1.0 U	1.1	1.1 J	0.82 J	1.2 J
1,3-Dichlorobenzene	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
2-Chlorotoluene	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Benzene	µg/L	22	9.6	24	11	10	19
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Bromoform	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	15	16	25	16	37	35
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Chloroform (Trichloromethane)	µg/L	4.5	3.0	10	3.3	3.9	7.2
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	µg/L	3.1	2.2	3.6	2.2	2.4	3.2
cis-1,3-Dichloropropene	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	µg/L	1.0 U	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	2.0 U	4.0 U	4.0 U	4.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	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	0.38 J	2.0 U	2.0 U	2.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Toluene	µg/L	0.33 J	1.0 U	0.28 J	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	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	1.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	µg/L	0.50 J	1.0 U	0.53 J	2.0 U	2.0 U	0.59 J
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.71 J
Vinyl acetate	µg/L	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U
Vinyl chloride	µg/L	150	150	170	160	180	160
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	6.0 U	6.0 U	6.0 U
General Chemistry							
Phenolics (total)	mg/L	0.0274	0.0058	0.0956	0.0131	0.0142	0.0911

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
Second Quarter - 2020
Hyde Park RRT Program

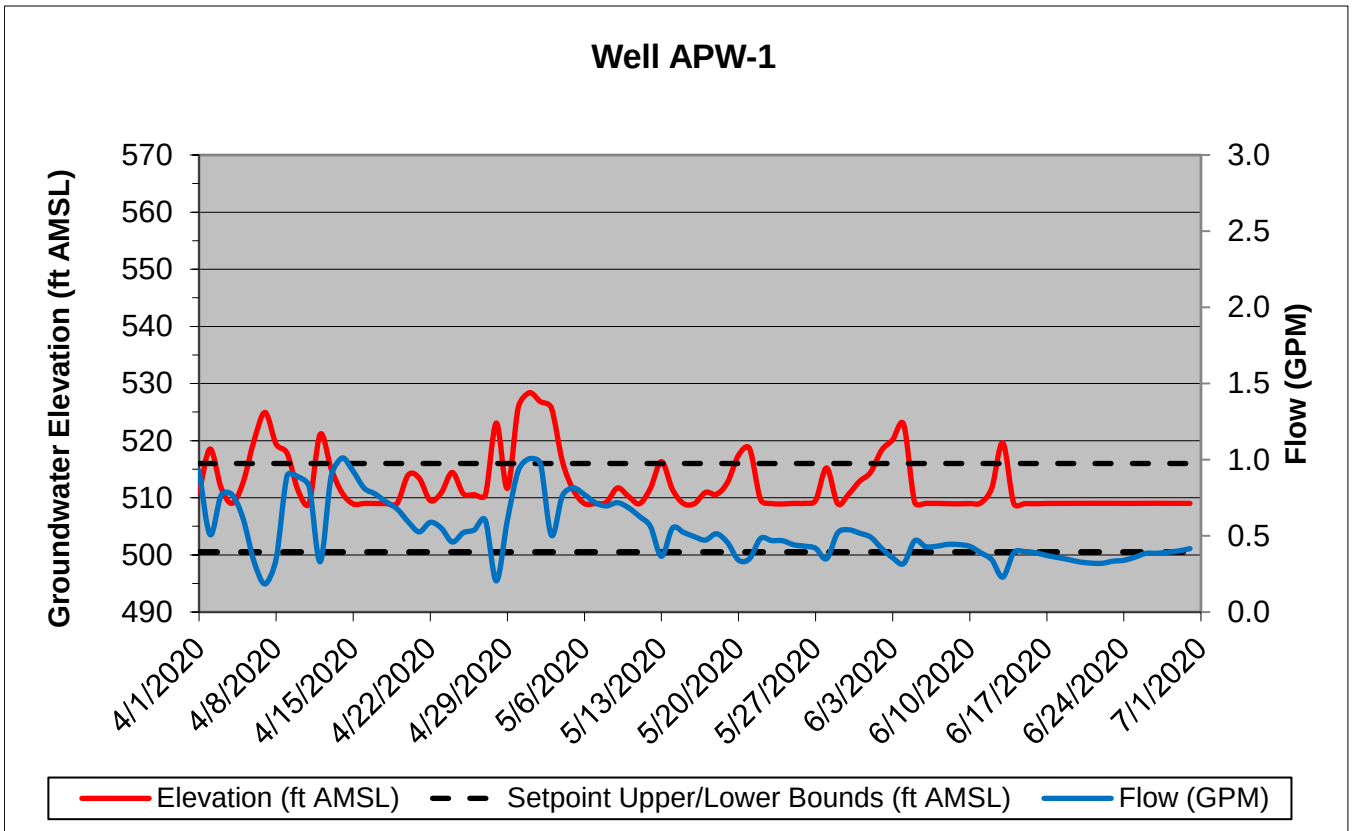
Sample Location:		**EFFLUENT**	**EFFLUENT**
Sample ID:		**HP 61720 EFF**	**HP 61720 EFF**
Sample Date:		**6/17/2020**	**6/17/2020**
Parameters	**Units**		
Volatile Organic Compounds			
Vinyl chloride	µg/L	169	--
General Chemistry			
Phosphorus	mg/L	--	0.216

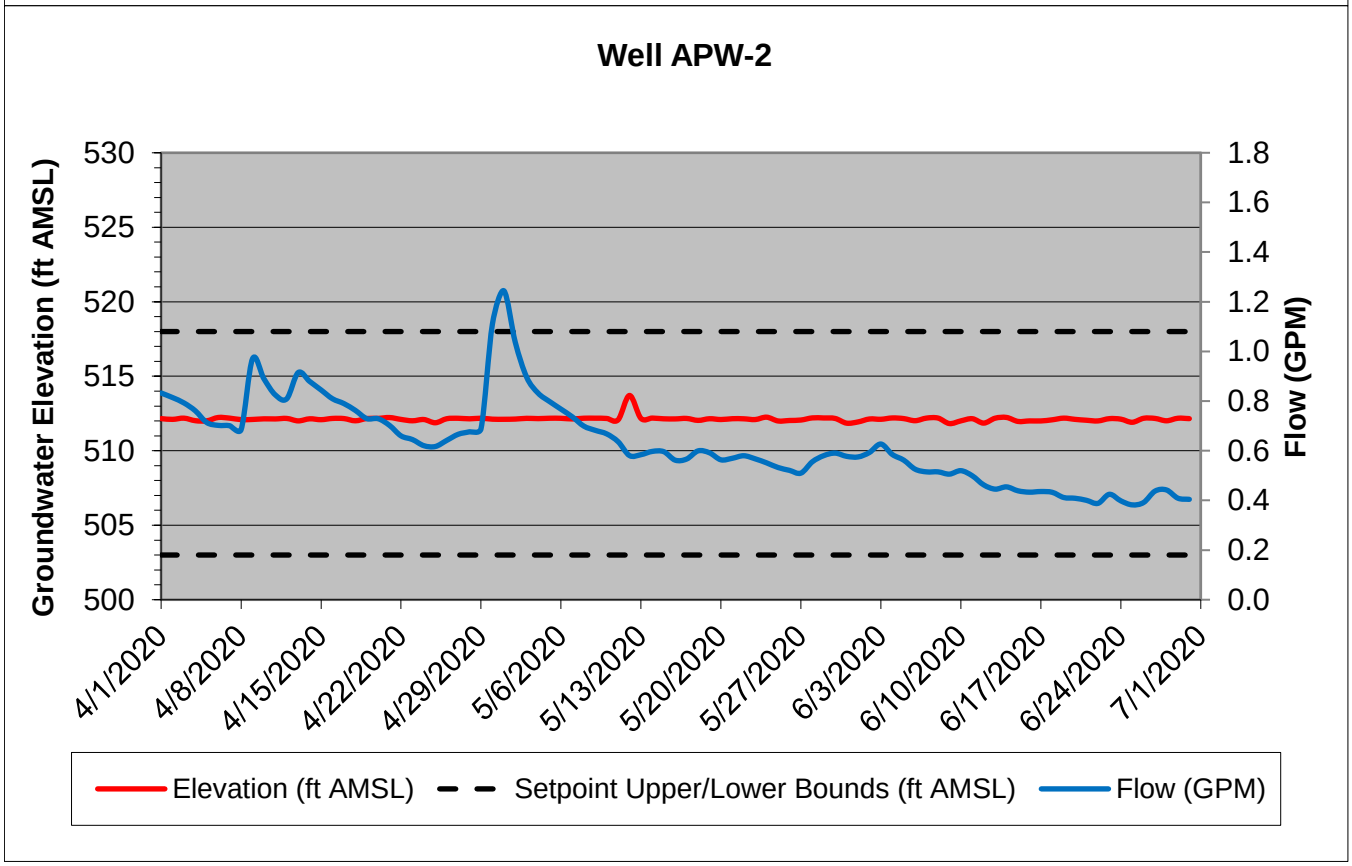
Notes:

"--" - Not applicable
mg/L - Milligrams per liter
µg/L - Micrograms per liter

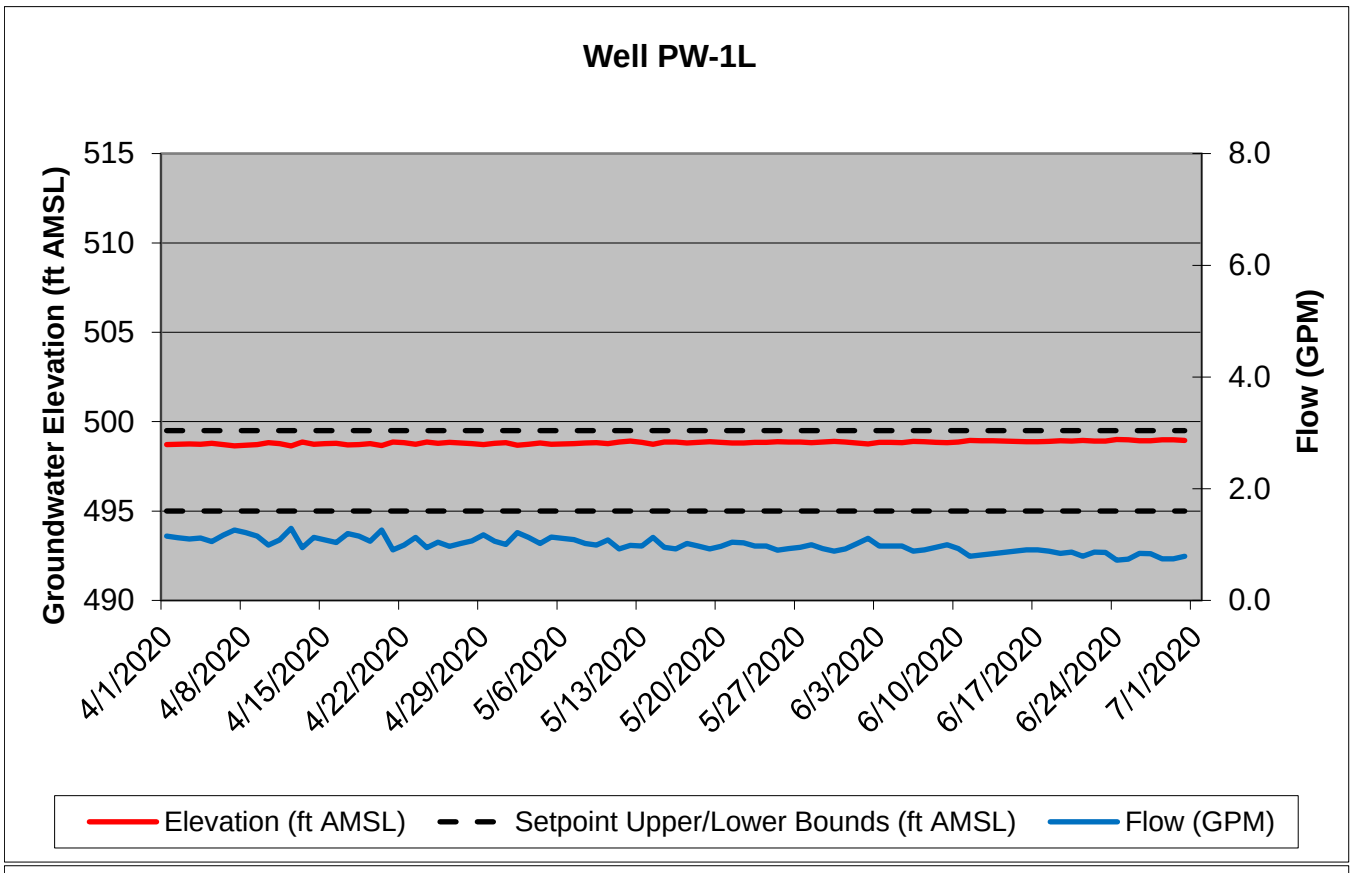
Attachment A
Second Quarter 2020
Pumping Well Performance Graphs

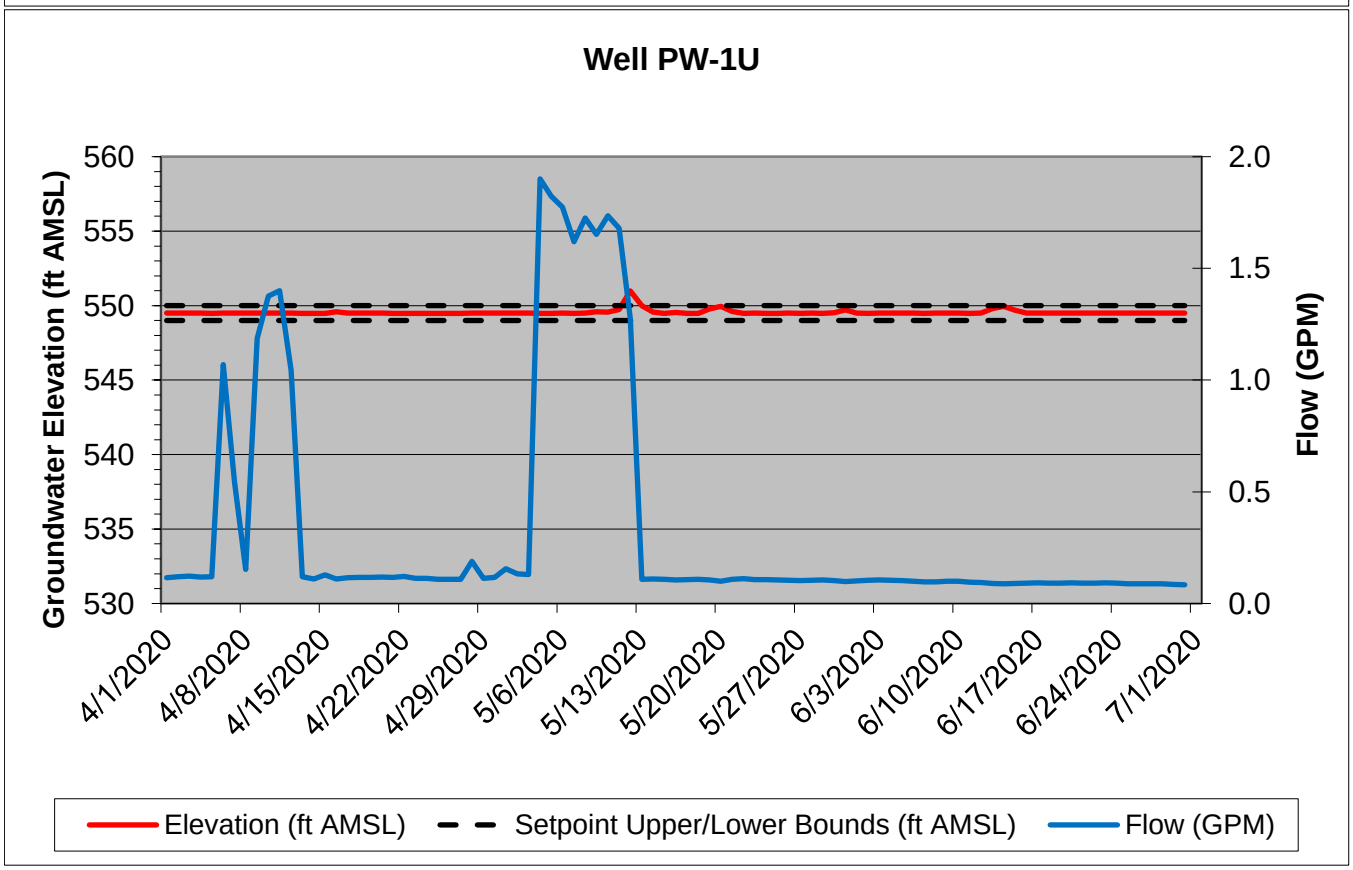
SECOND QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK



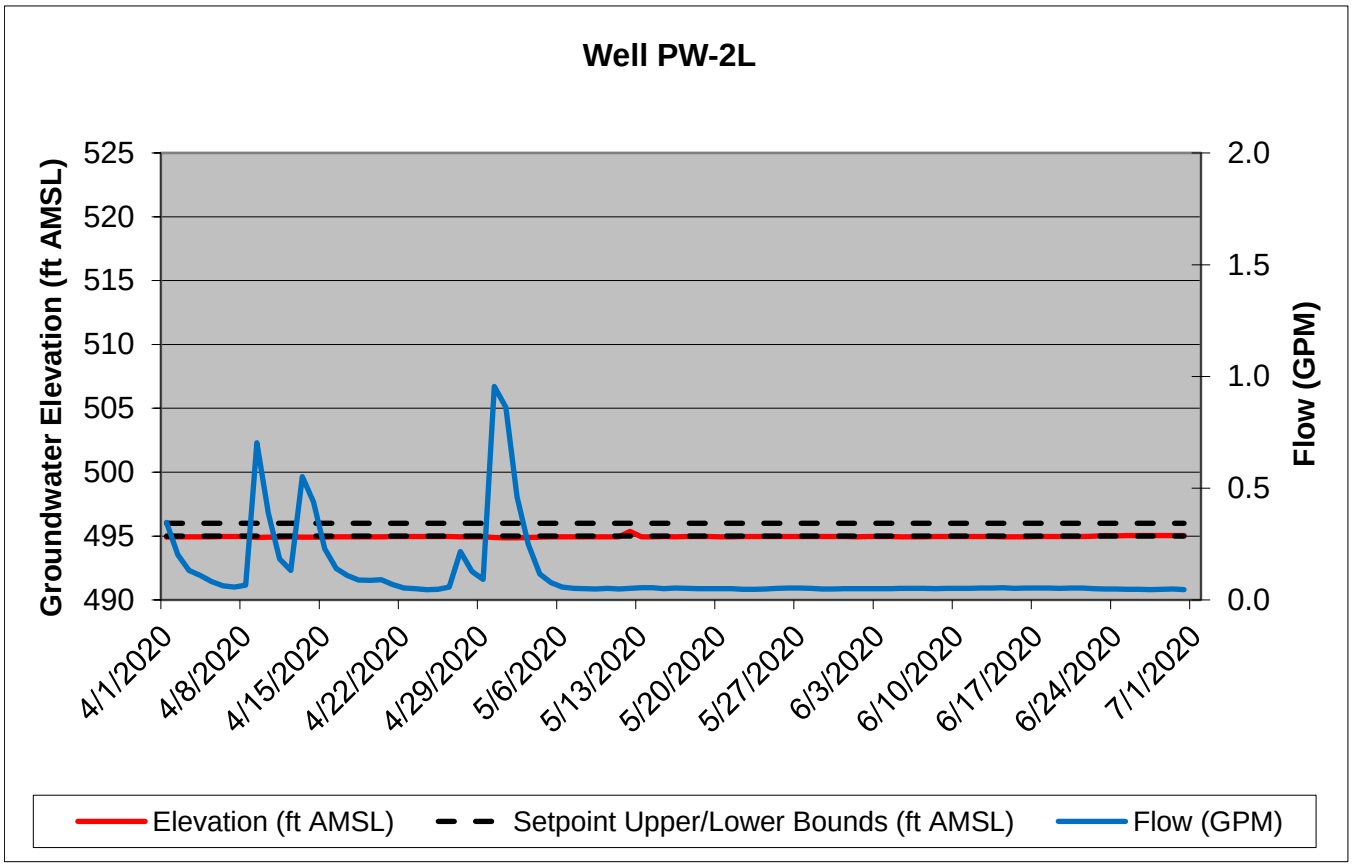


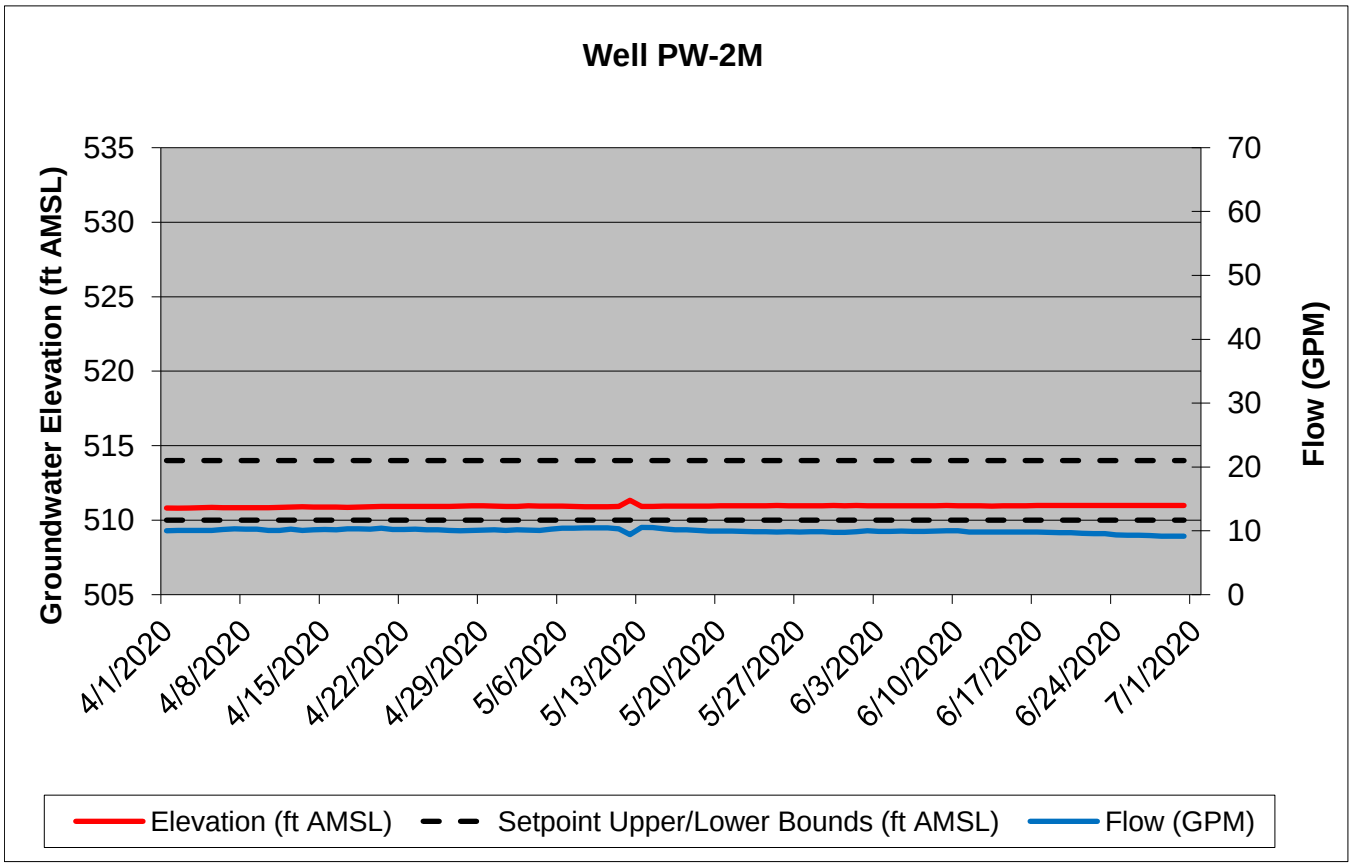
SECOND QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK



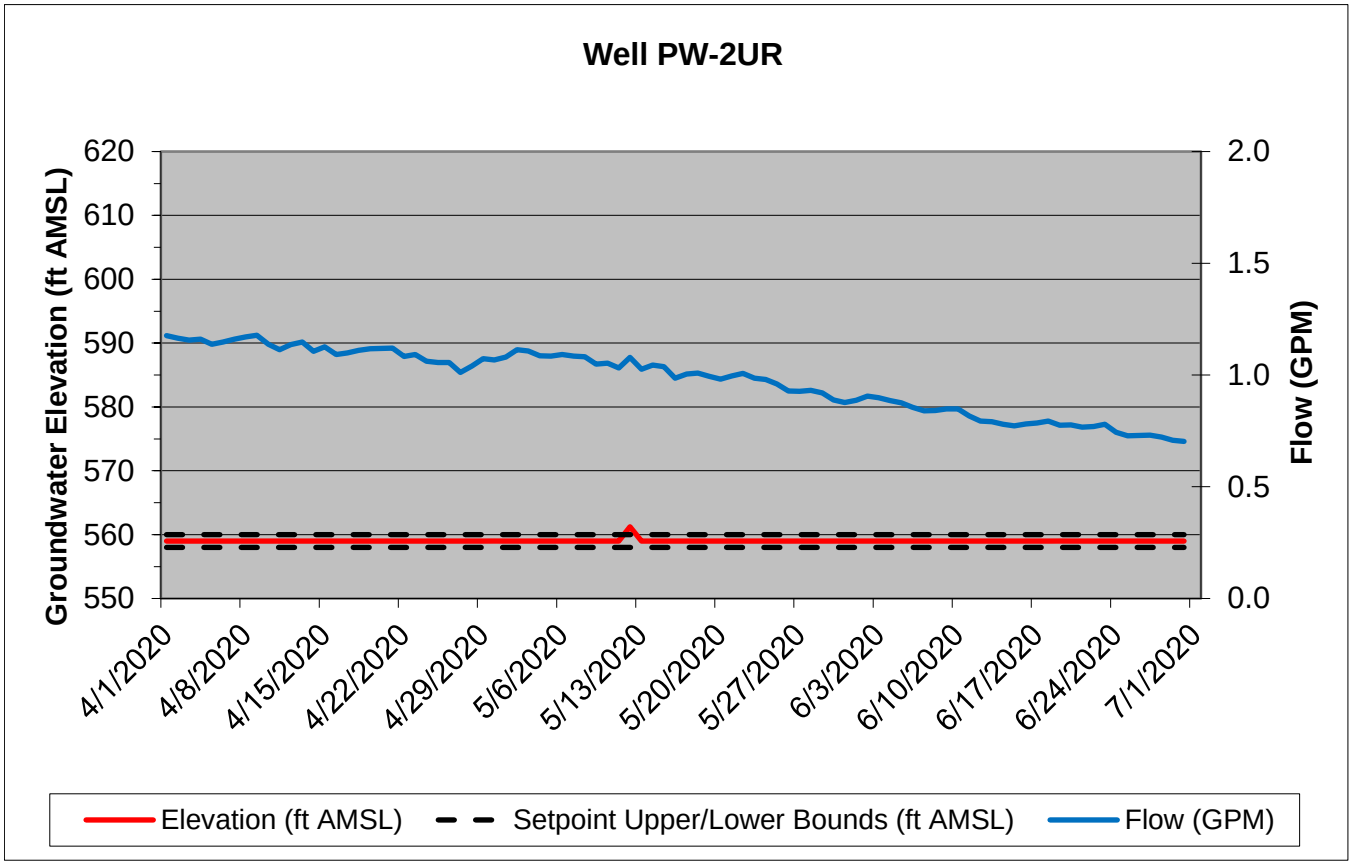


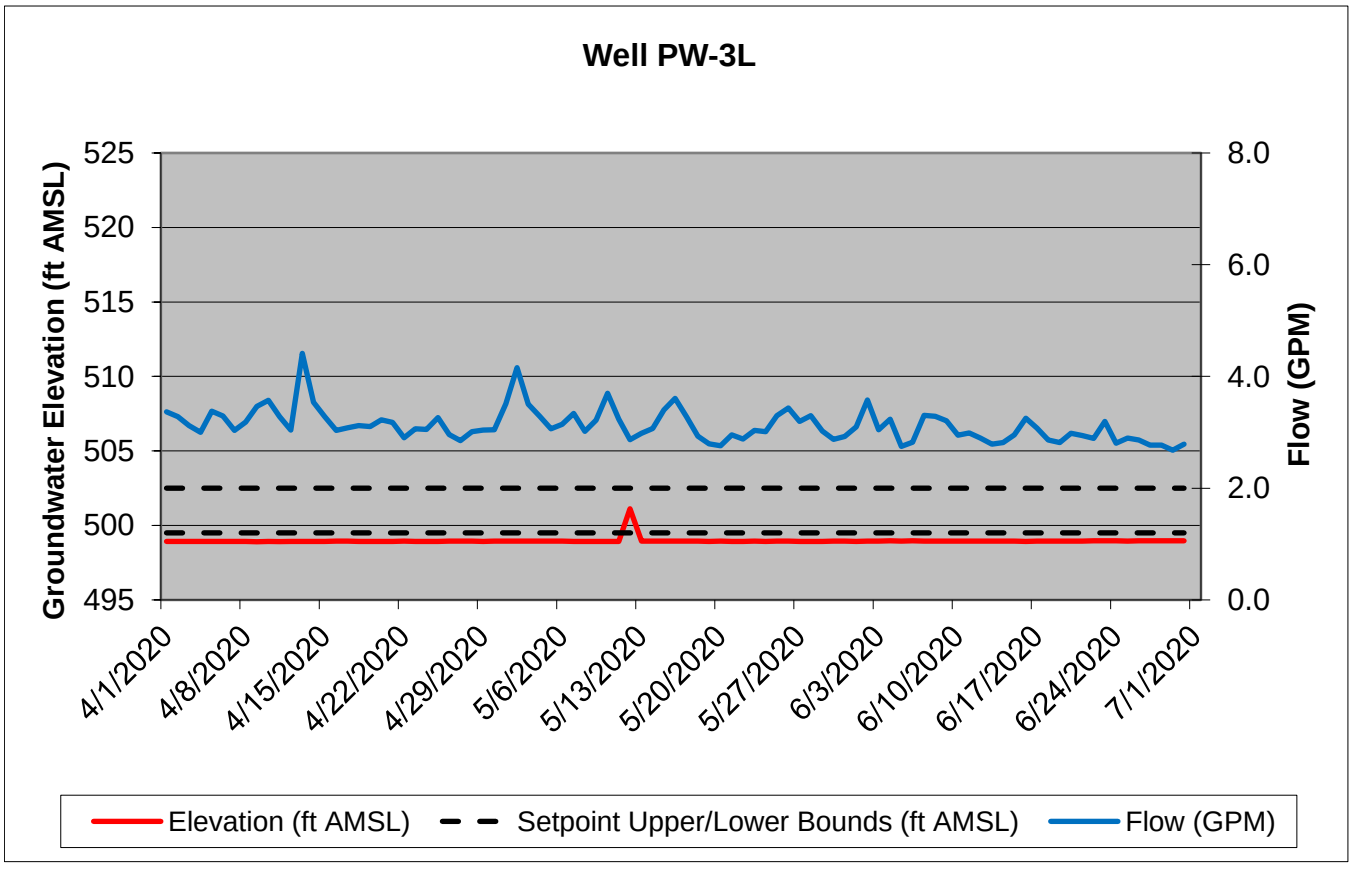
SECOND QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK





SECOND QUARTER 2020 - PUMPING WELL PERFORMANCE GRAPHS
HYDE PARK





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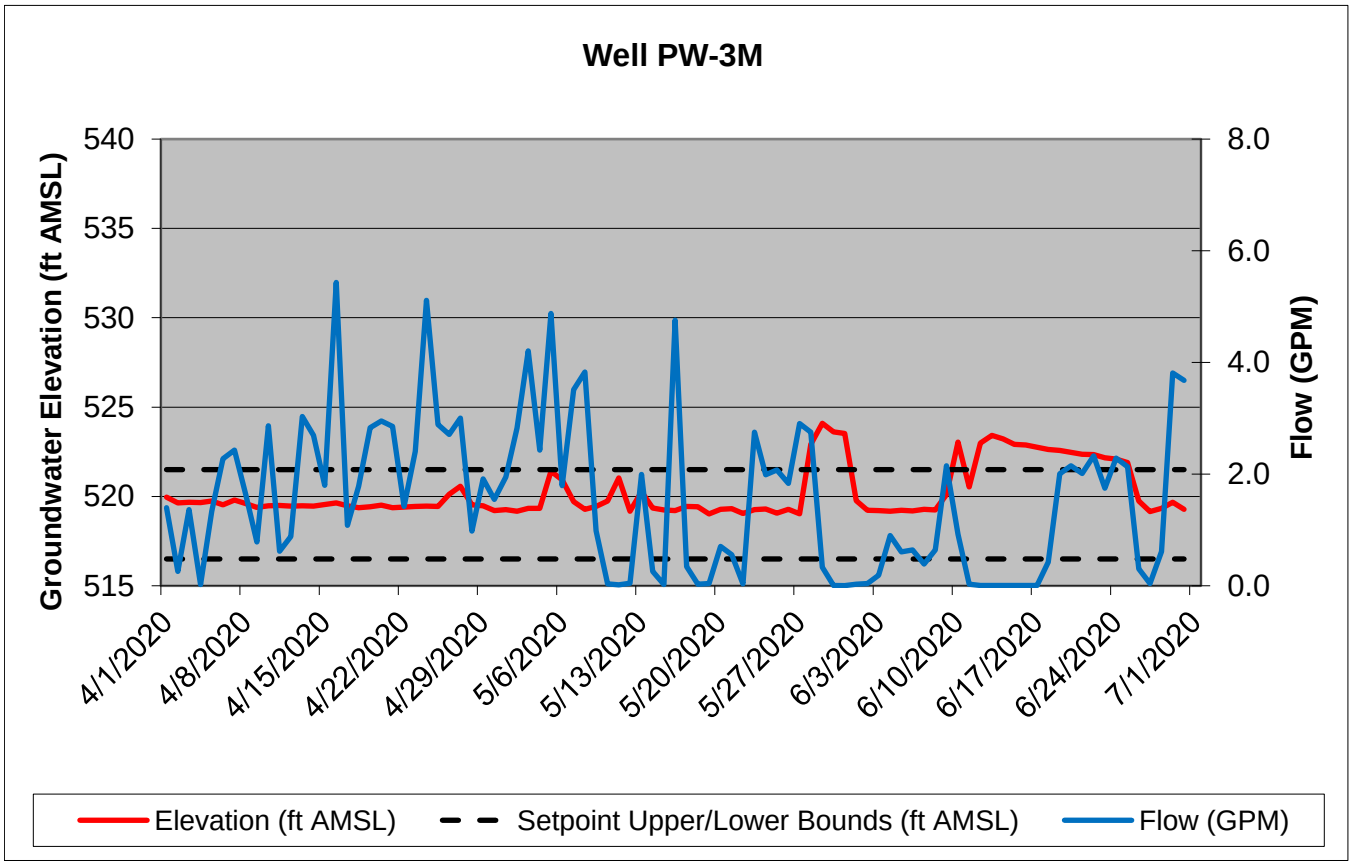

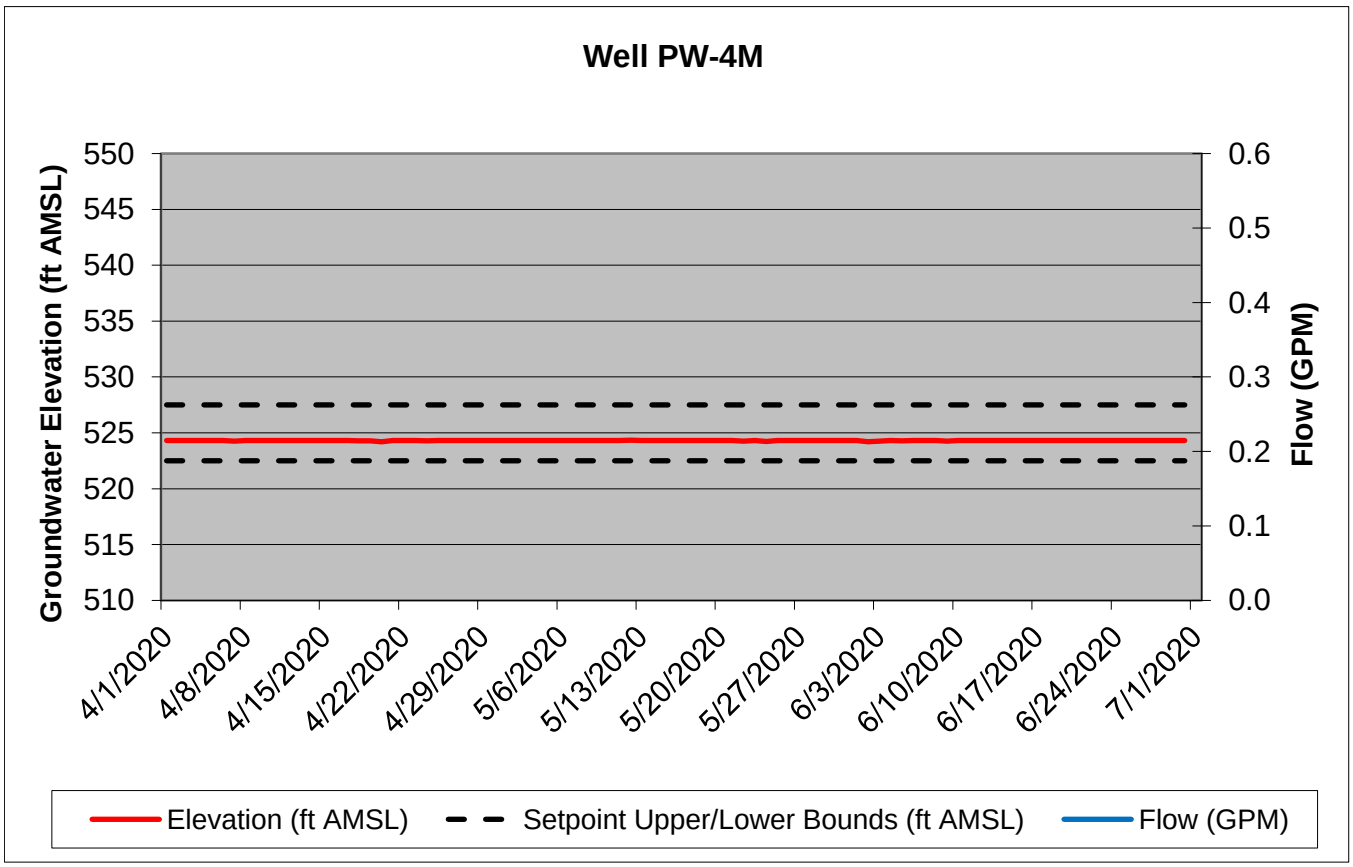

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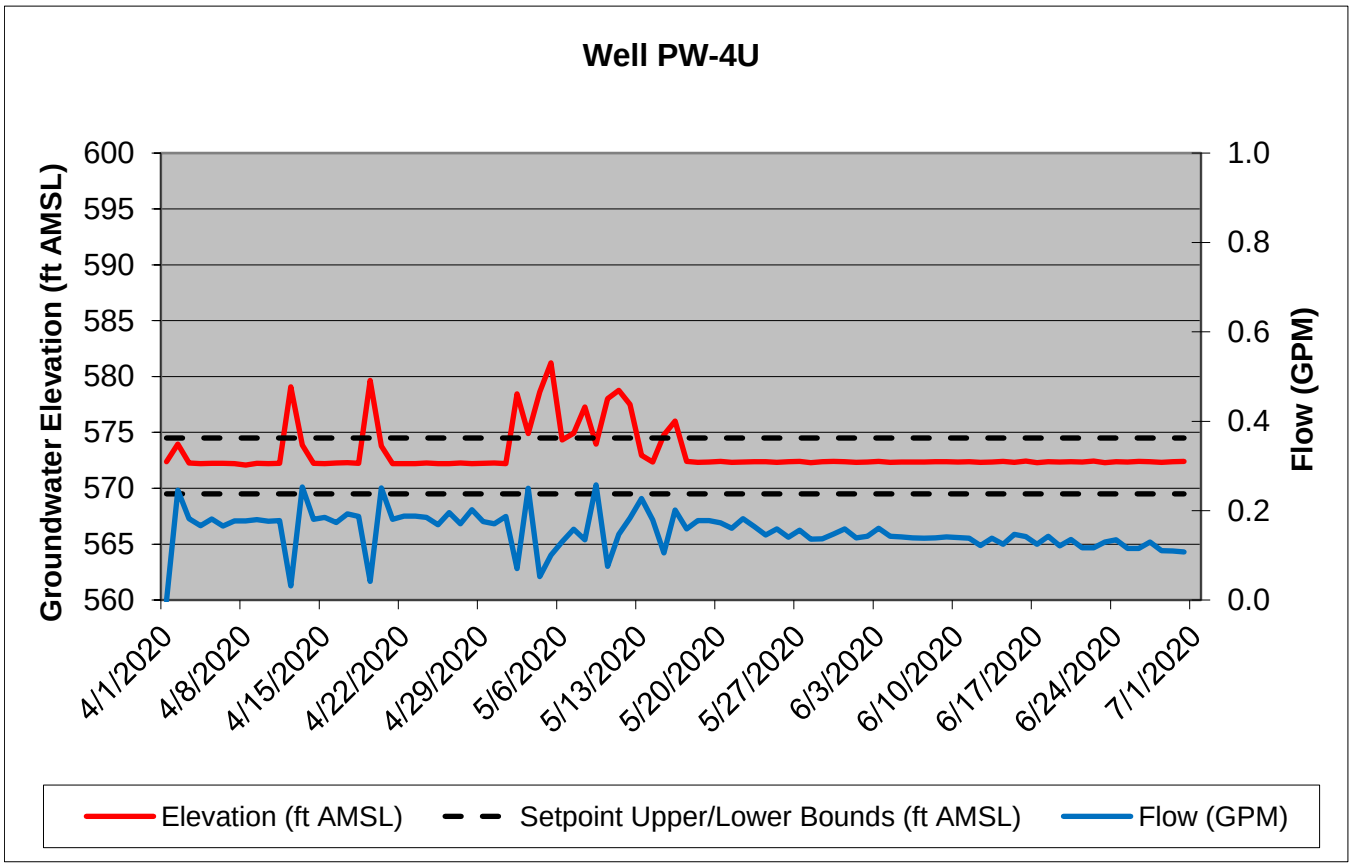

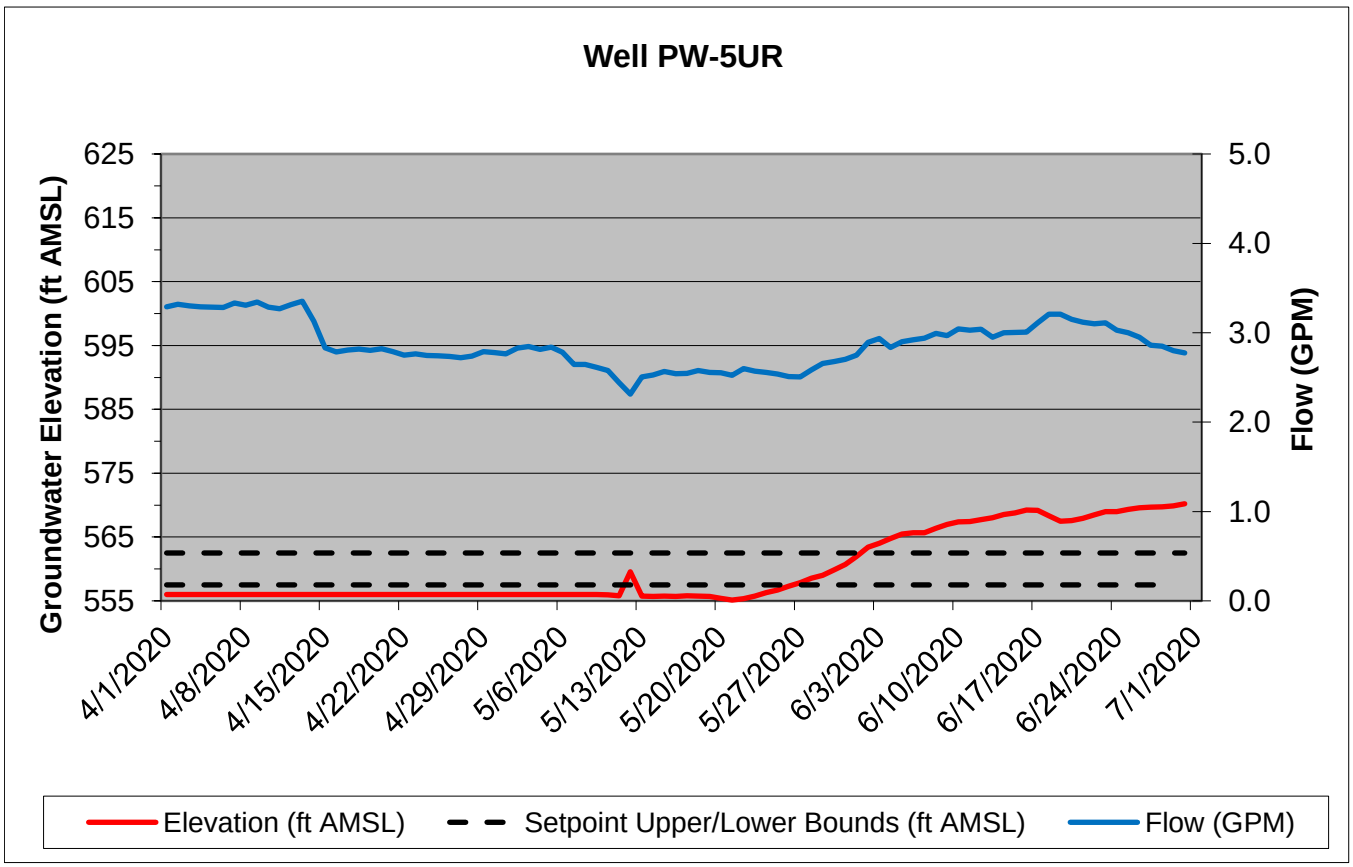

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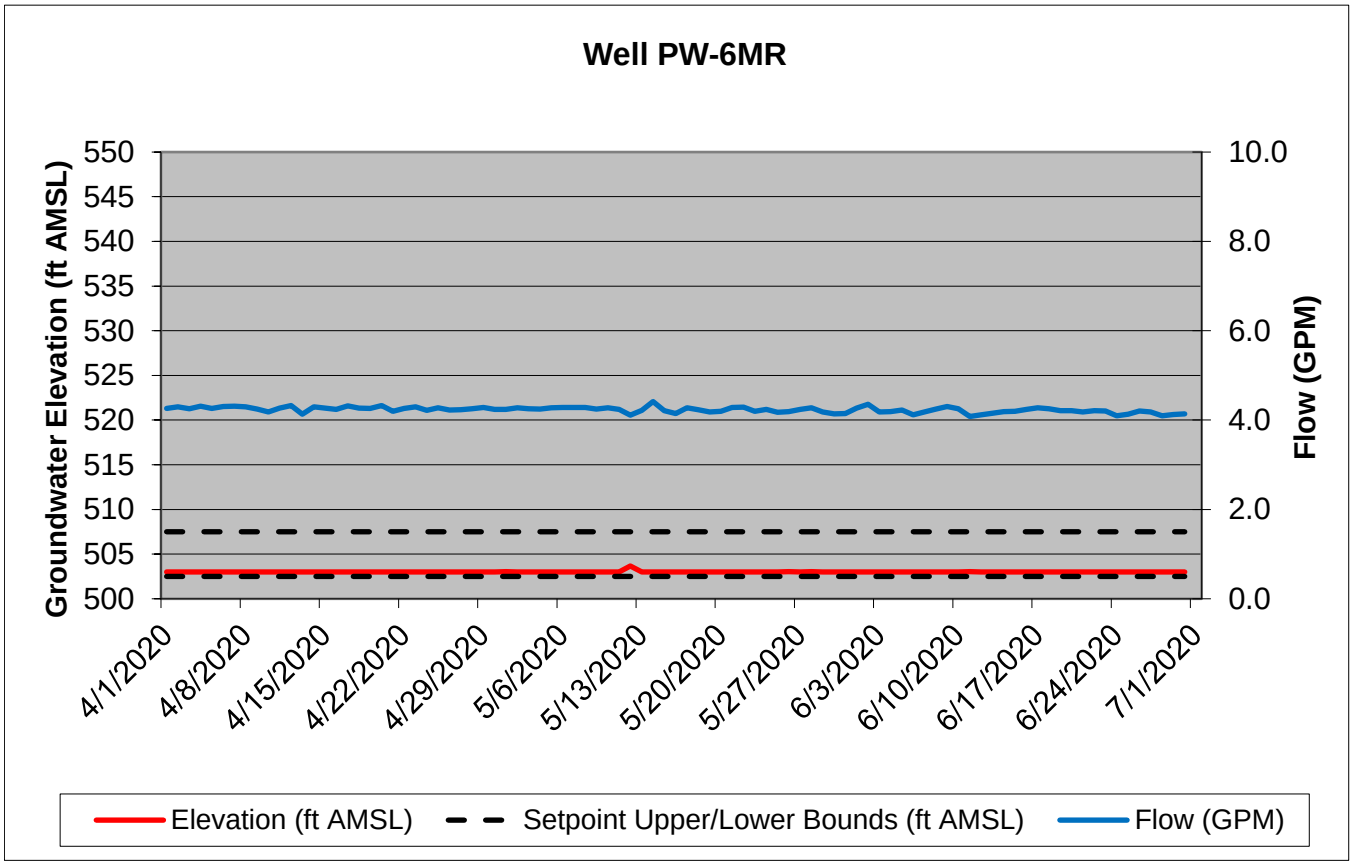

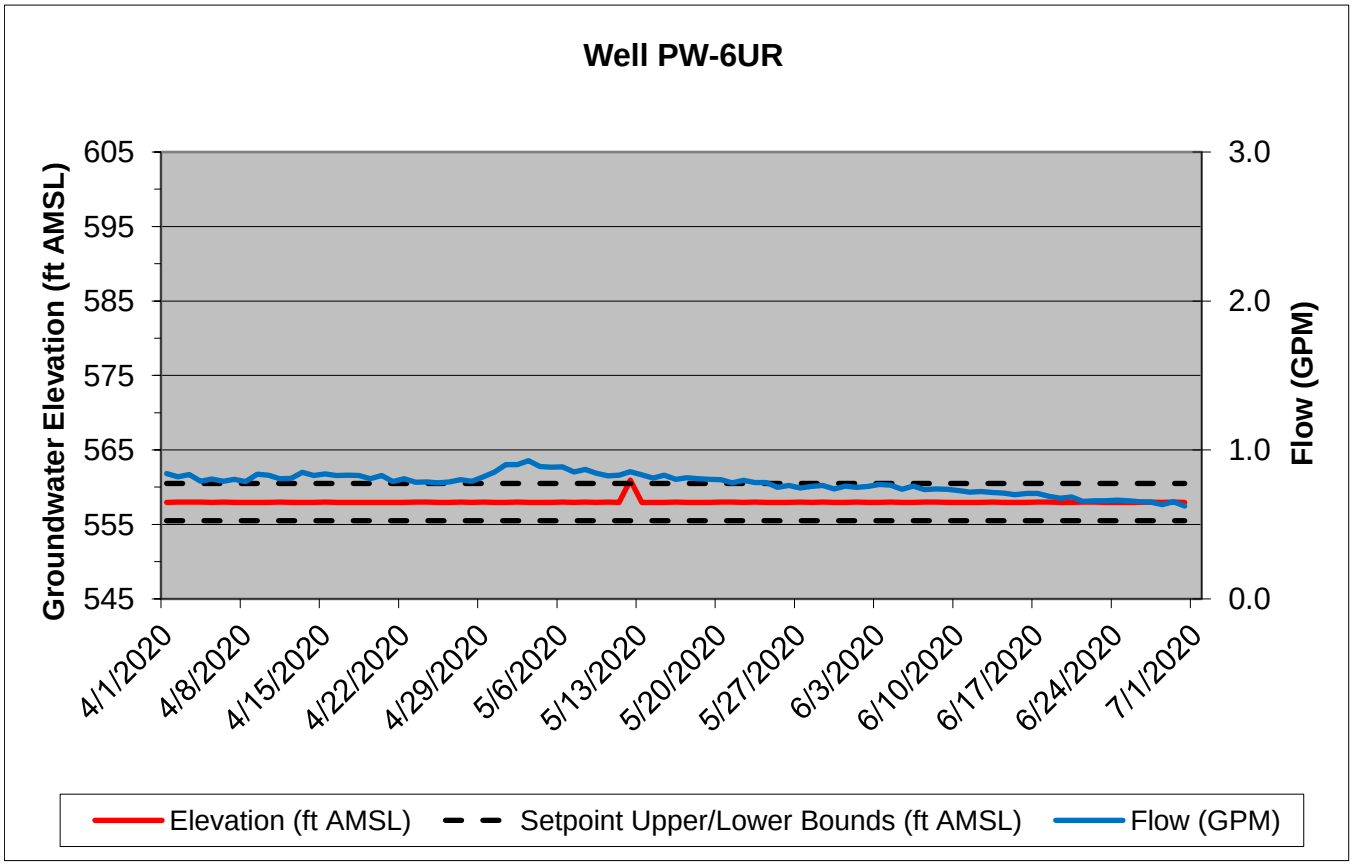

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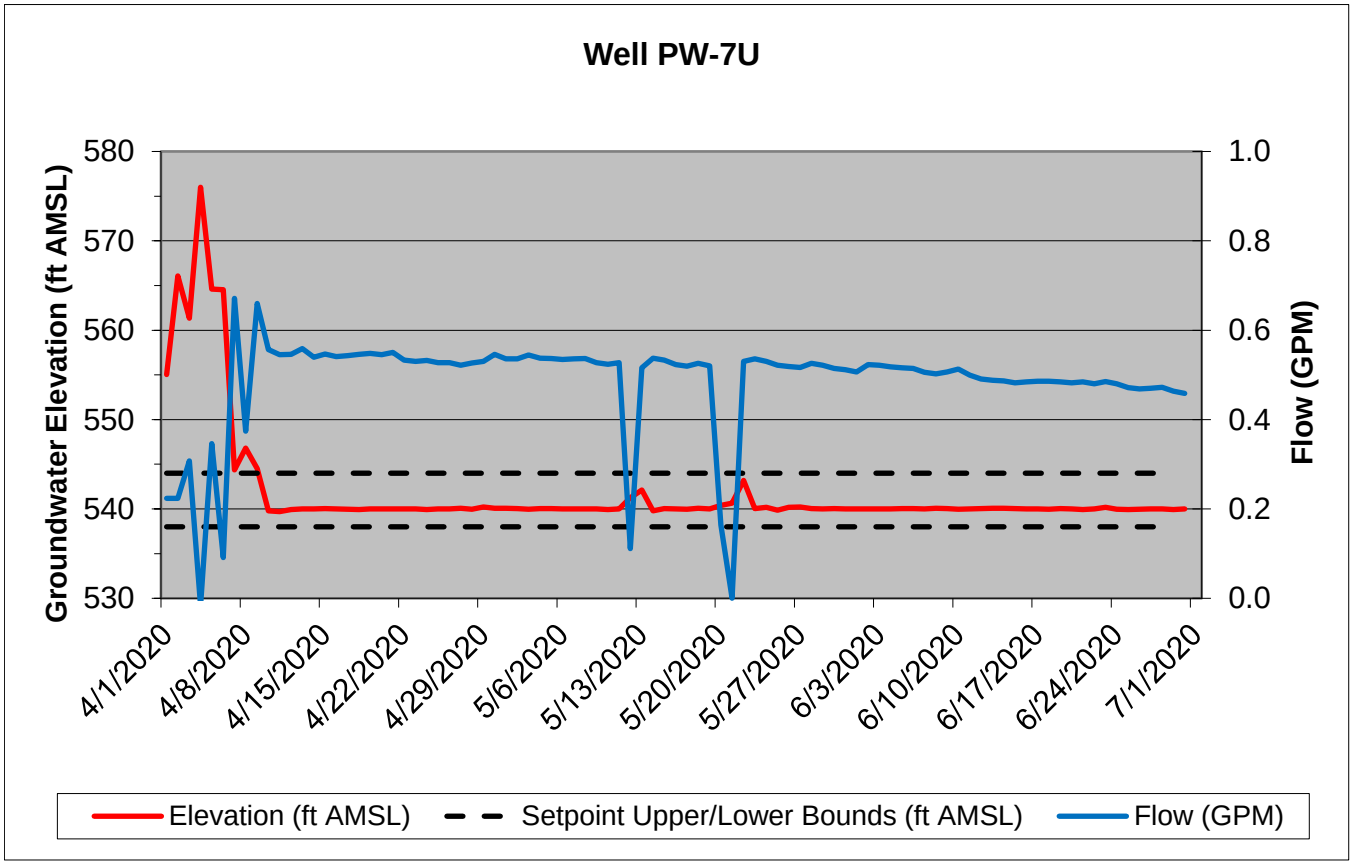

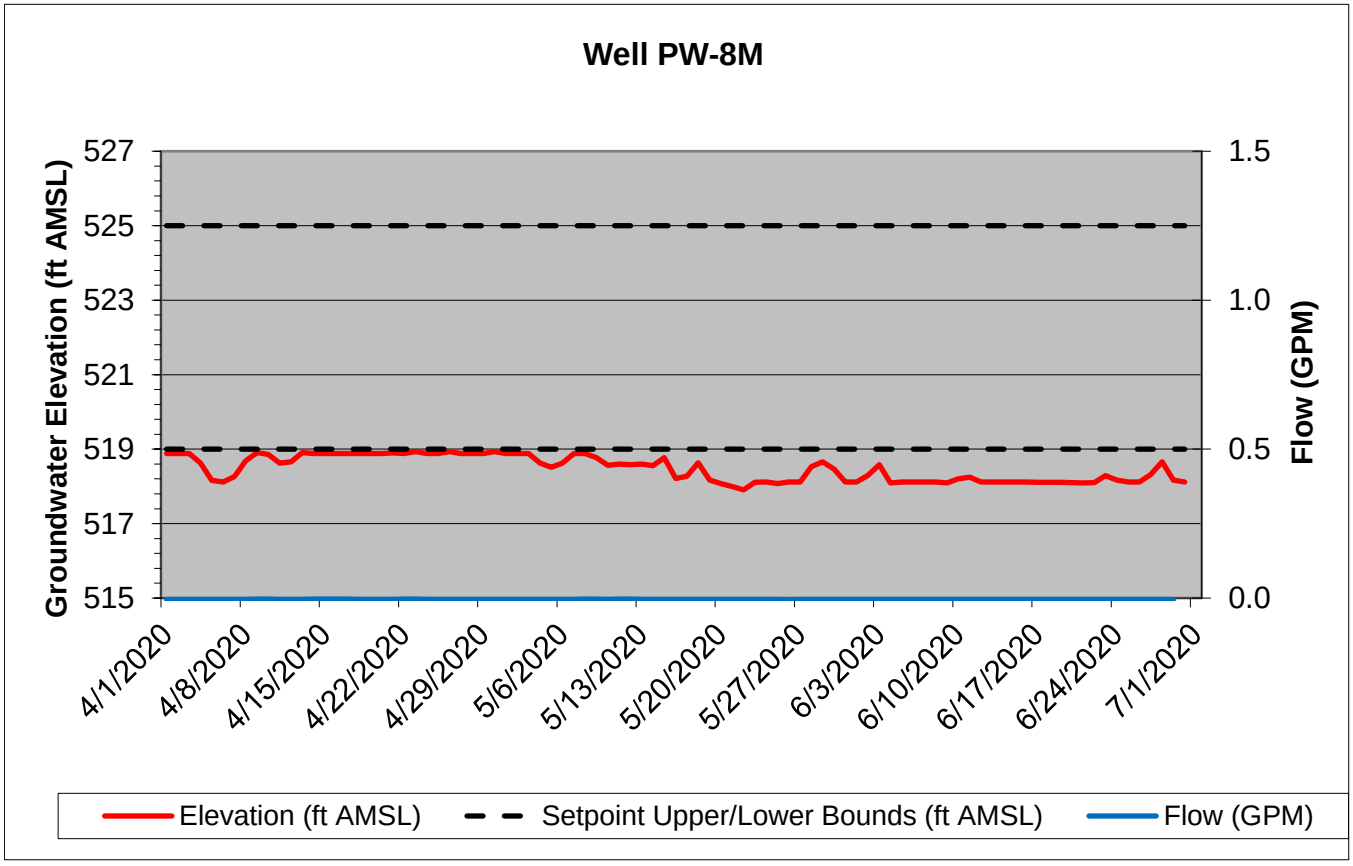

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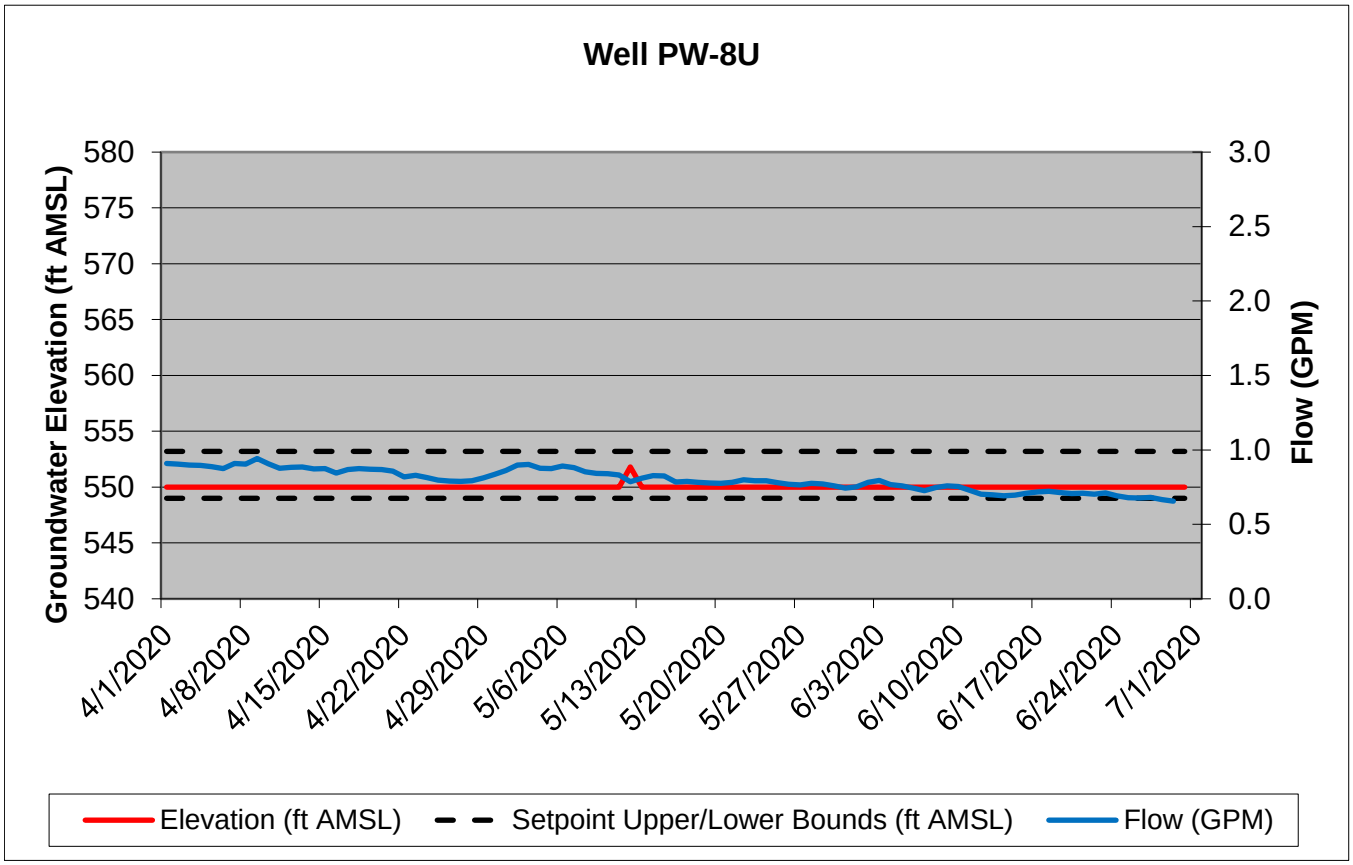

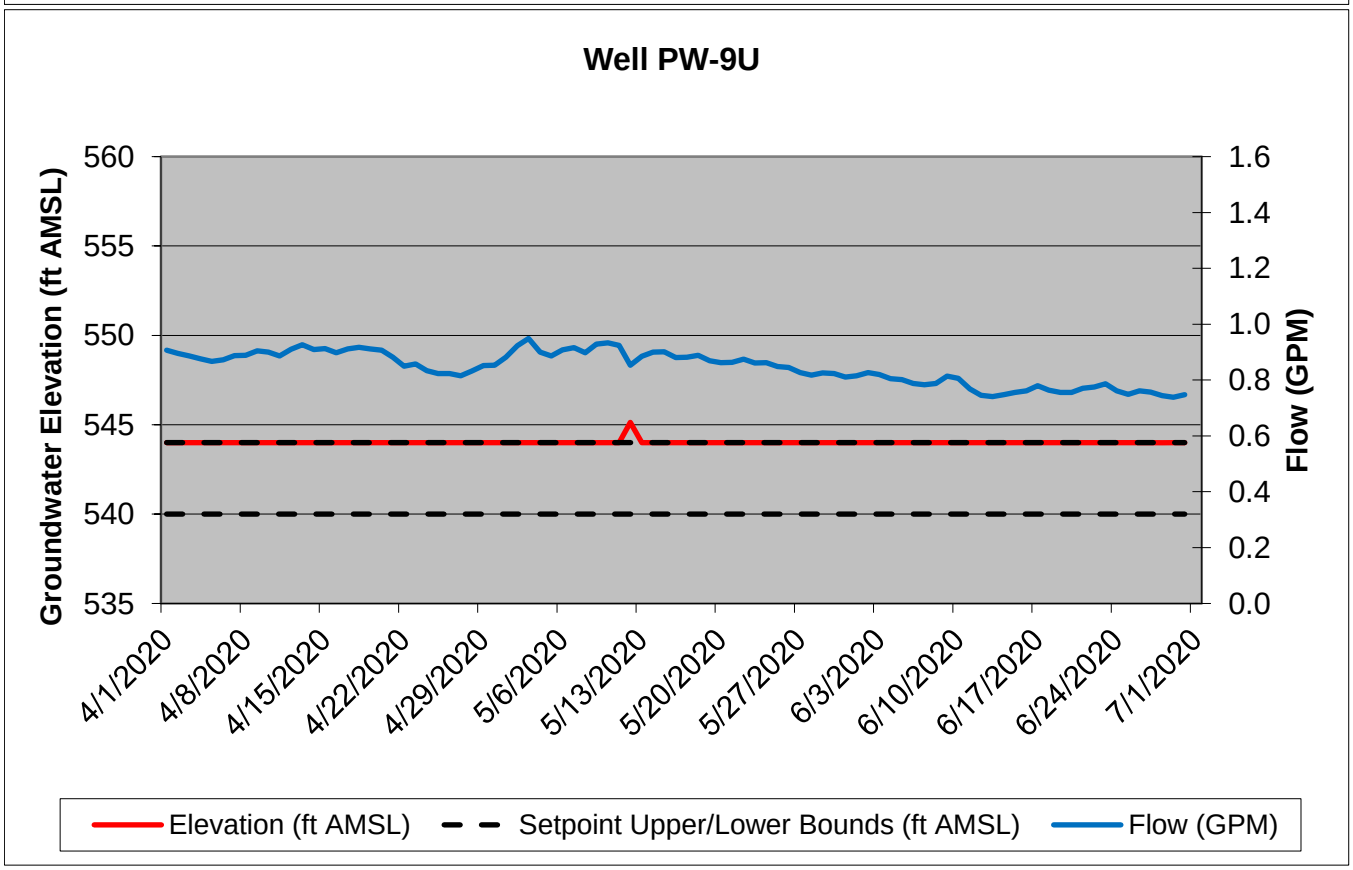

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