



# Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

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

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7601 Old Channel Trail  
Montague, MI 49437

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April 30, 2021

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 - First Quarter 2021  
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 January 1, 2021 through March 31, 2021. A total of 5.94 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. Three drums (approximately 375 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 continuously recorded water levels for the flow zone 9 piezometer PWM-1M-09 for the first quarter 2021 are presented on Figure 10. These water levels were less than 526 feet above mean sea level (AMSL) throughout the quarter, indicating that the FZ-09 outcrop along the New York Power Authority (NYPA) access road was unsaturated throughout the quarter.

The pumping wells were operational and functioning as designed during the first quarter 2021 except for PW-2M. This well was redeveloped in December 2020 and the pumping system is currently being redesigned. It is anticipated that the new pumping system will be installed in the second quarter of 2021. 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

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Manual. The following minor operational and setpoint issues were investigated and resolved during the first quarter of 2021:

- The water level in PW-3M exceeded setpoint range on January 17, January 20, and January 21 for unknown reasons. The water level returned to within setpoint range on January 18 and January 22, respectively.
- The water level in PW-7U exceeded setpoint range on February 16 and February 17 due to a pump communication fault. The pump was repaired and reset, and the water level returned to within setpoint range on February 18.
- The water level in PW-4U exceeded setpoint range on February 21 and February 22 and on February 26 and February 27 due to electrical faults. The pump was reset in each case and the water level returned to within setpoint range on February 23 and February 28, respectively. The water level in this well also exceeded setpoint range from March 14 through the end of the quarter (March 31), as the pump was offline awaiting replacement. The pump and motor were replaced on April 13.
- The water levels in the following wells exceeded setpoint range due to heavy rain and snowmelt:
  - PW-1L, PW-3L, PW-4U, PW-5UR, and PW-10U exceeded setpoint range on February 24 and returned to within setpoint range on February 25.
  - PW-1U, PW-2UR, PW-2L, PW-6UR, PW-7U, and PW-9U exceeded setpoint range on February 24 and February 25 and returned to within setpoint range on February 26.
  - APW-1 exceeded setpoint range on February 24 and February 28 and returned to within setpoint range on February 25 and March 1, respectively.
  - APW-2 exceeded setpoint range on March 1 and returned to within setpoint range on March 2.
- The water level in PW-9U exceeded setpoint range from March 10 through March 30 due to recurring pump faults. The pump was reset in each case, and troubleshooting was performed on March 15 and March 25. The pump fault was resolved and the pump reset again on March 30, and the well began pumping down to the setpoint. The water level returned to within setpoint range on March 31.

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.

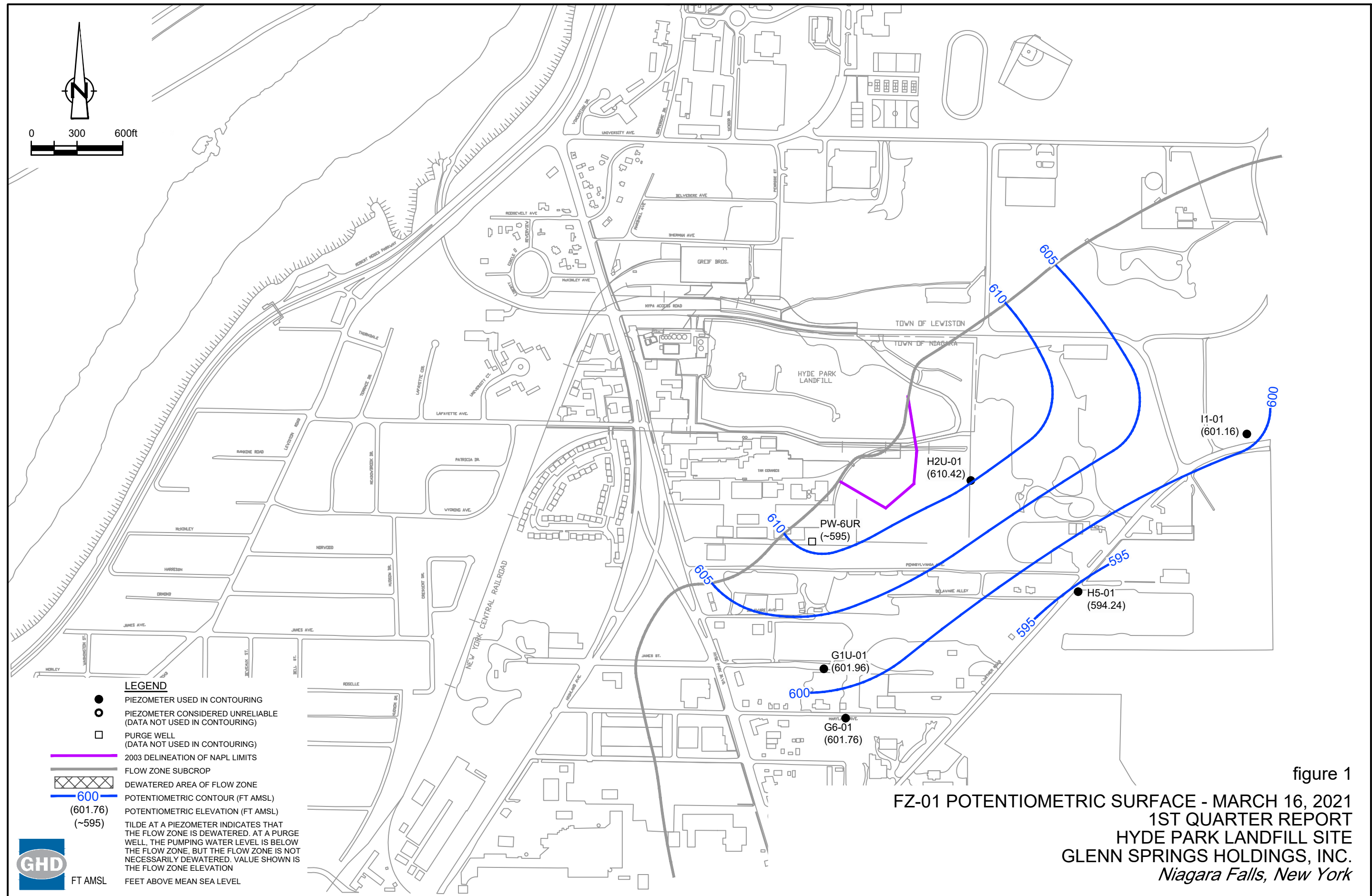


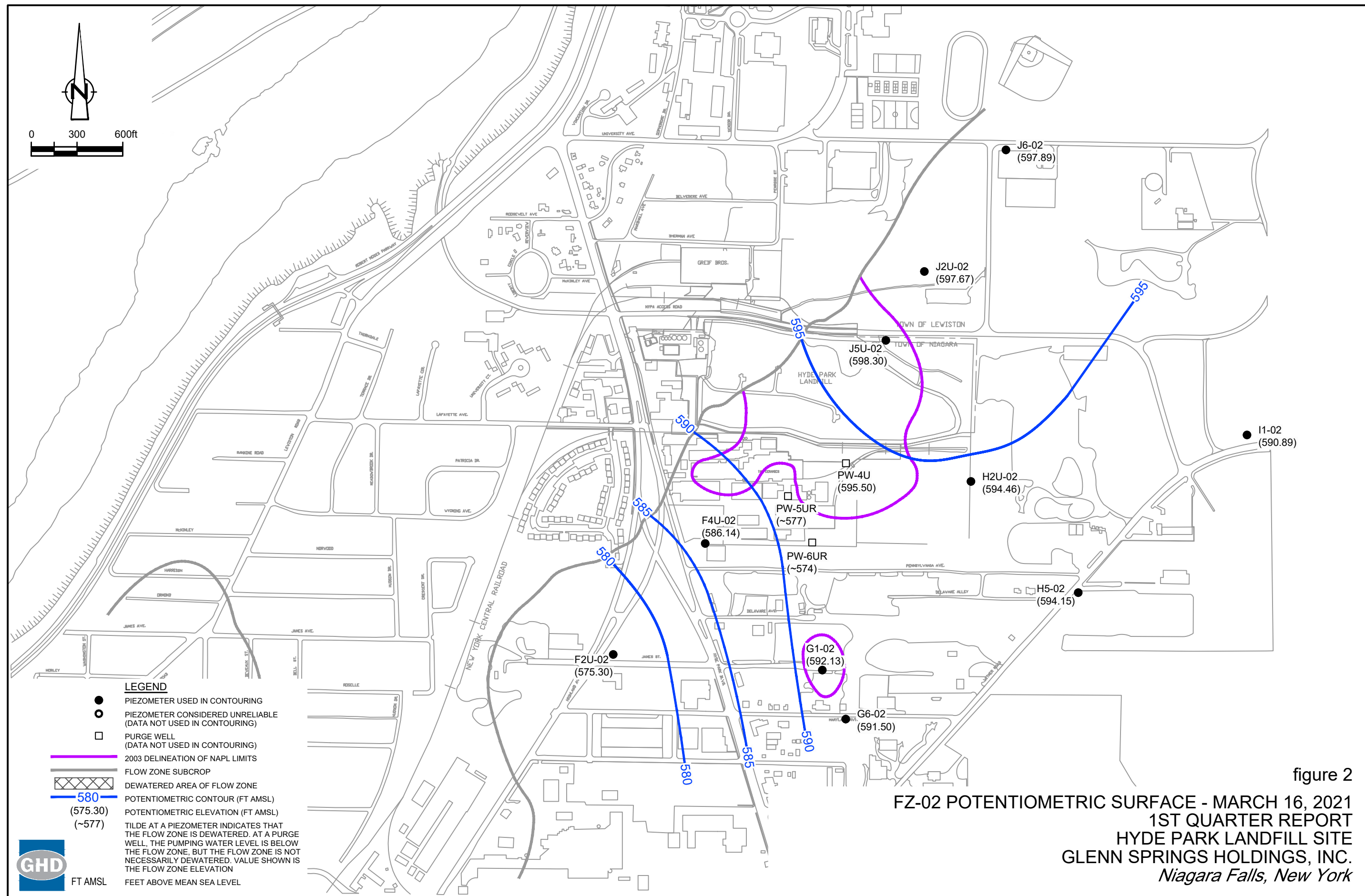
Joe Branch  
Project Manager  
231-670-6809 Cell

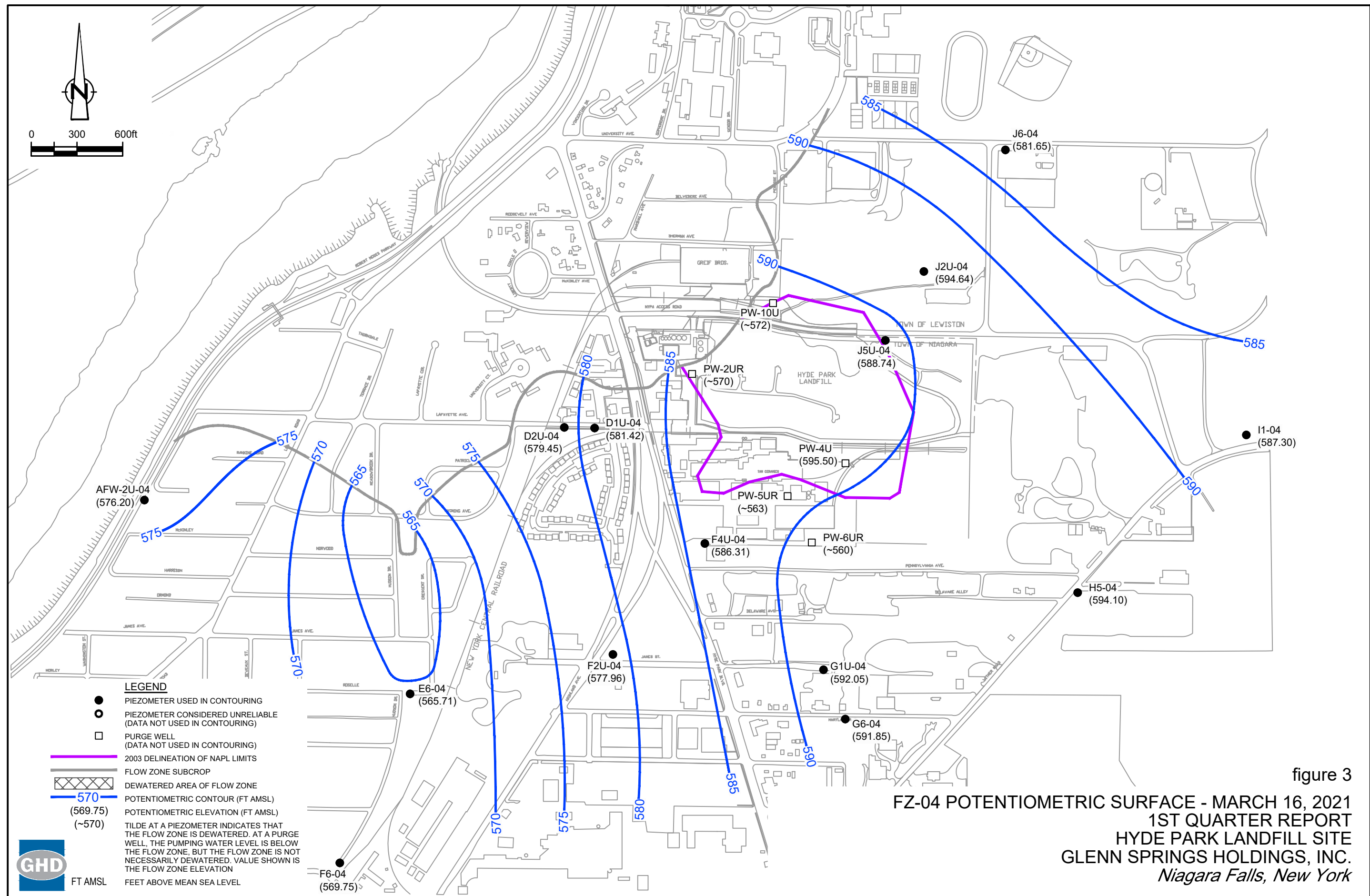
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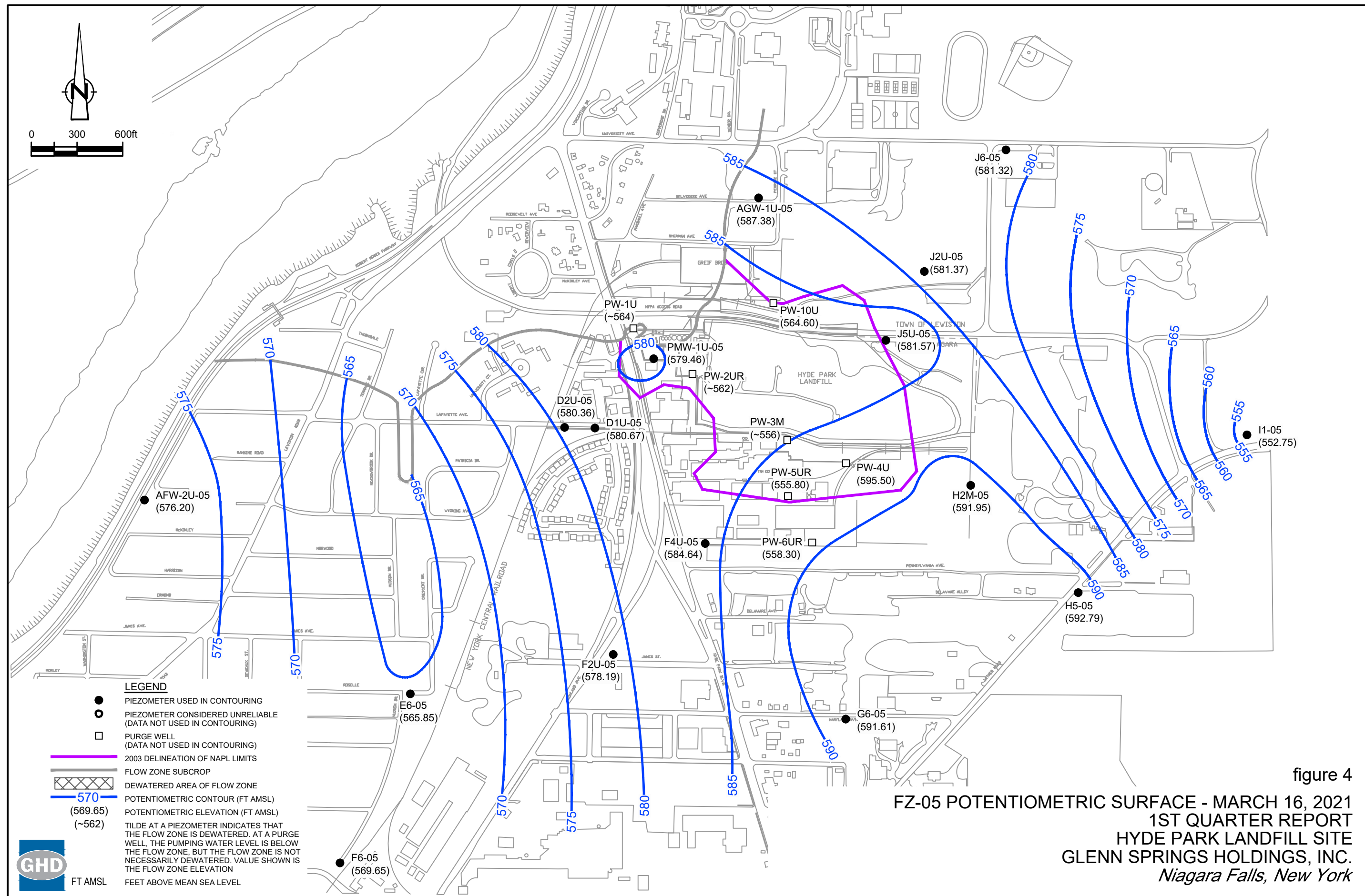
cc: G. May, NYSDEC  
A. Zwack, NYSDOH  
J. Robinson, NYSDOH

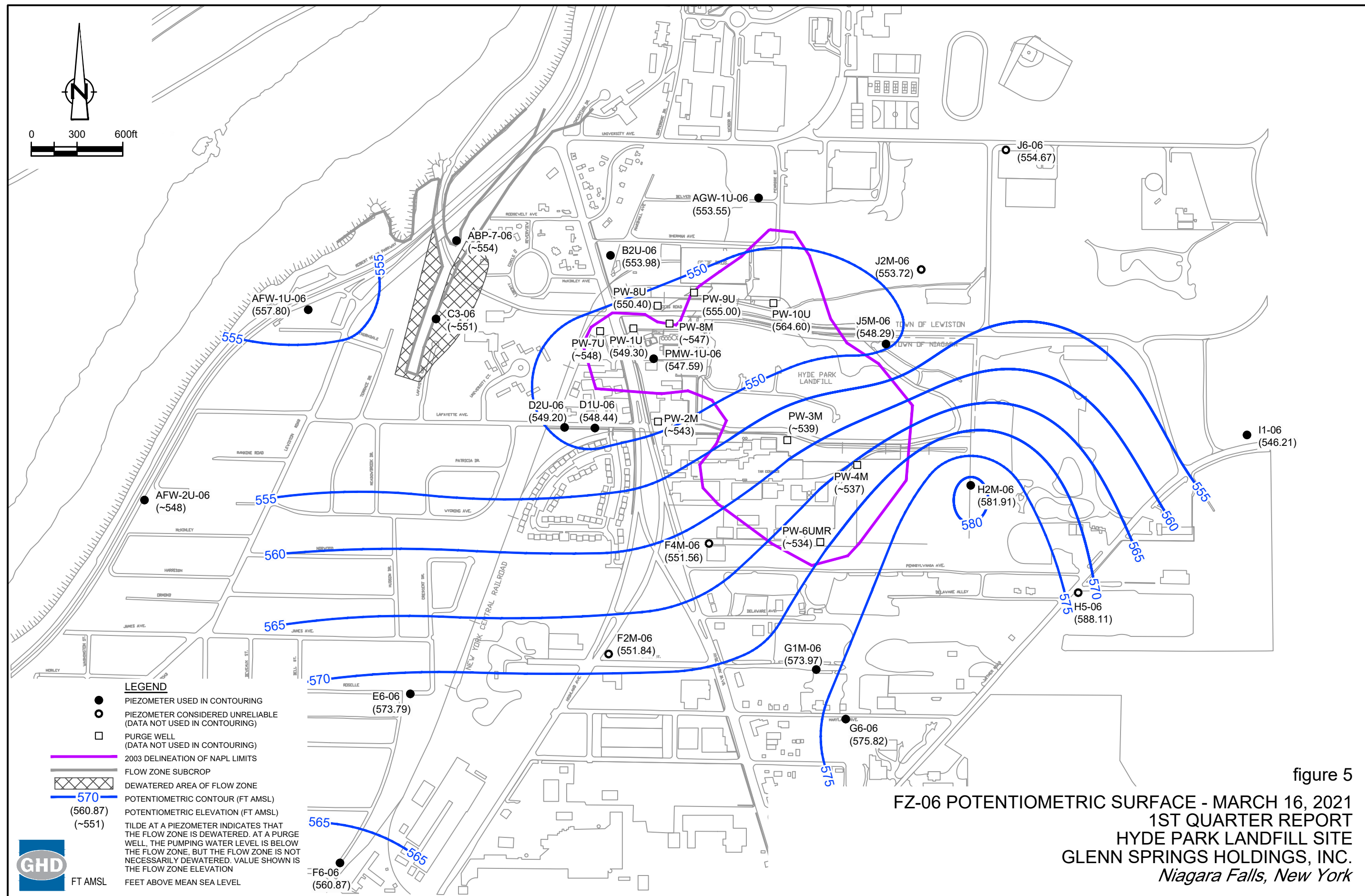
J. Pentilchuk, GHD  
D. Hoyt, GHD  
M. Popek, GHD

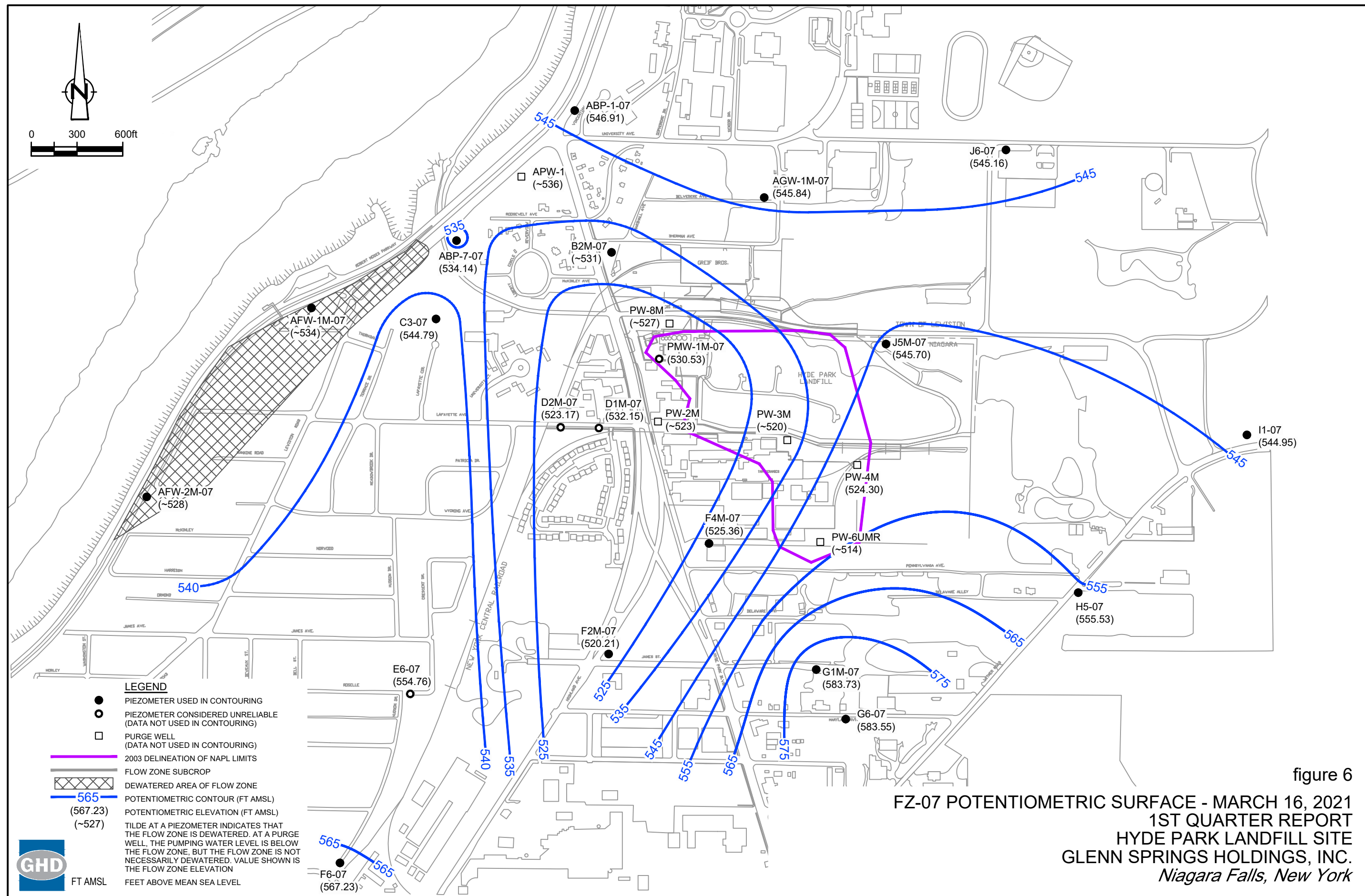


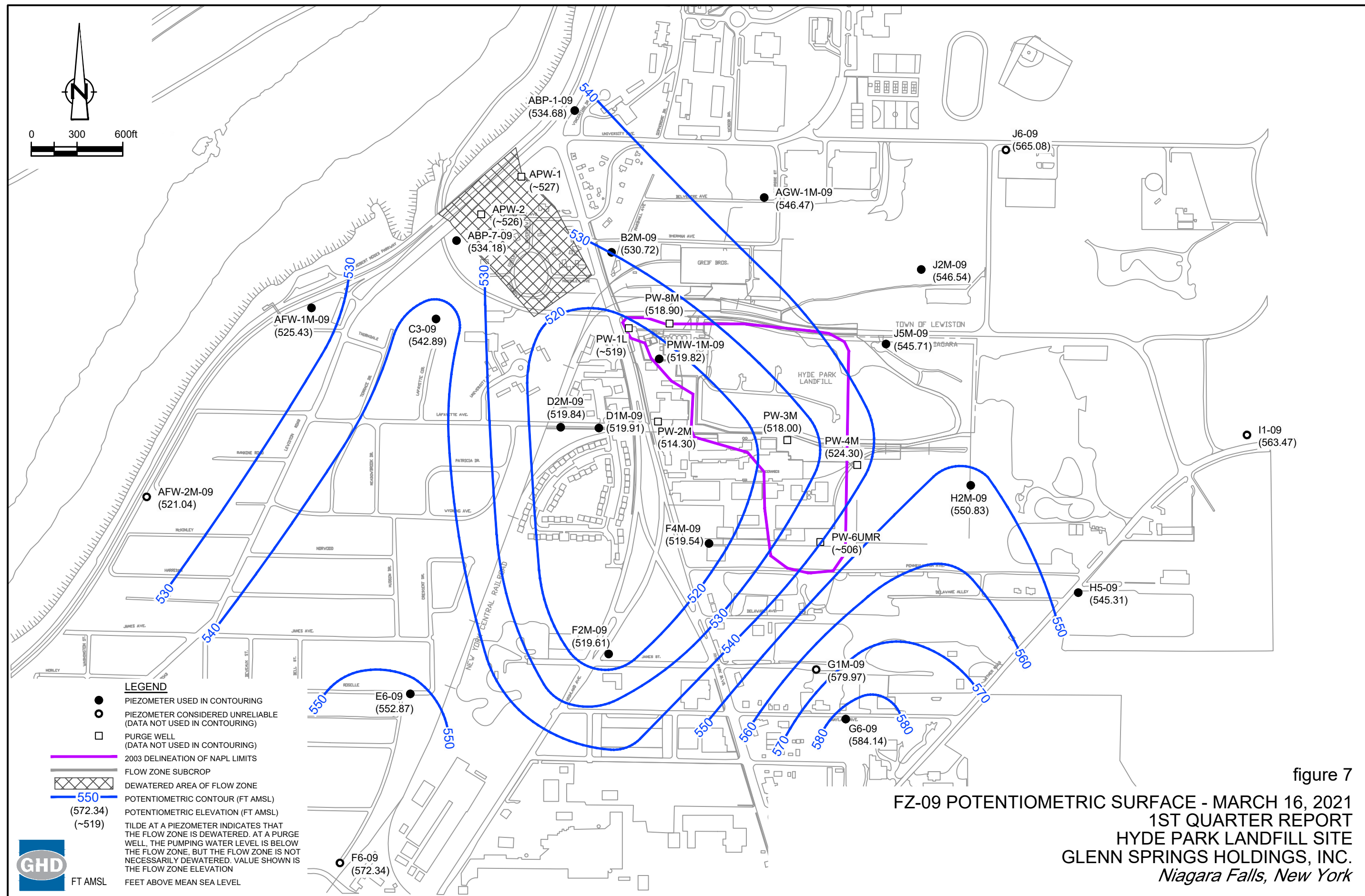


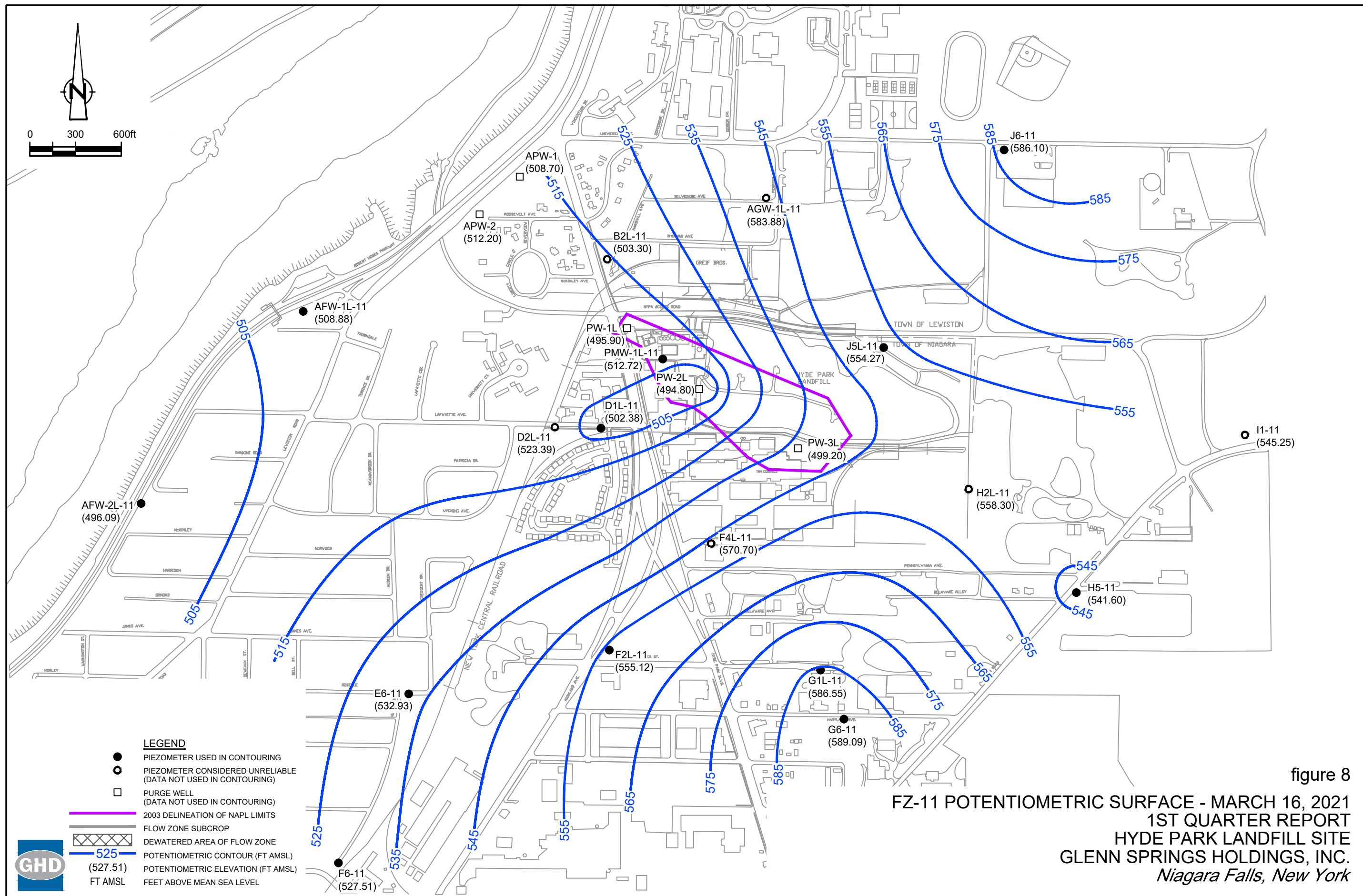












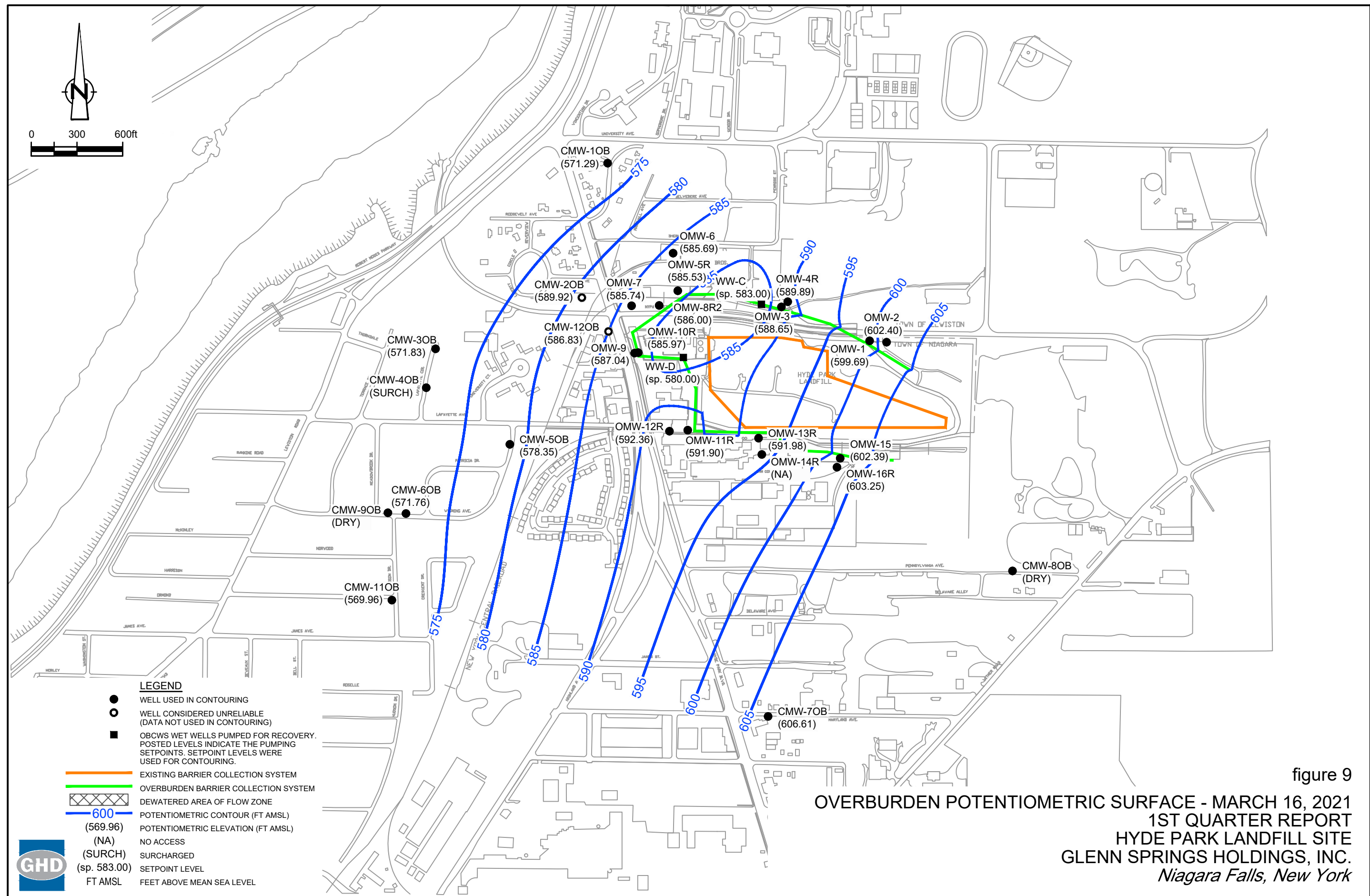


figure 9

OVERBURDEN POTENTIOMETRIC SURFACE - MARCH 16, 2021  
 1ST QUARTER REPORT  
 HYDE PARK LANDFILL SITE  
 GLENN SPRINGS HOLDINGS, INC.  
 Niagara Falls, New York

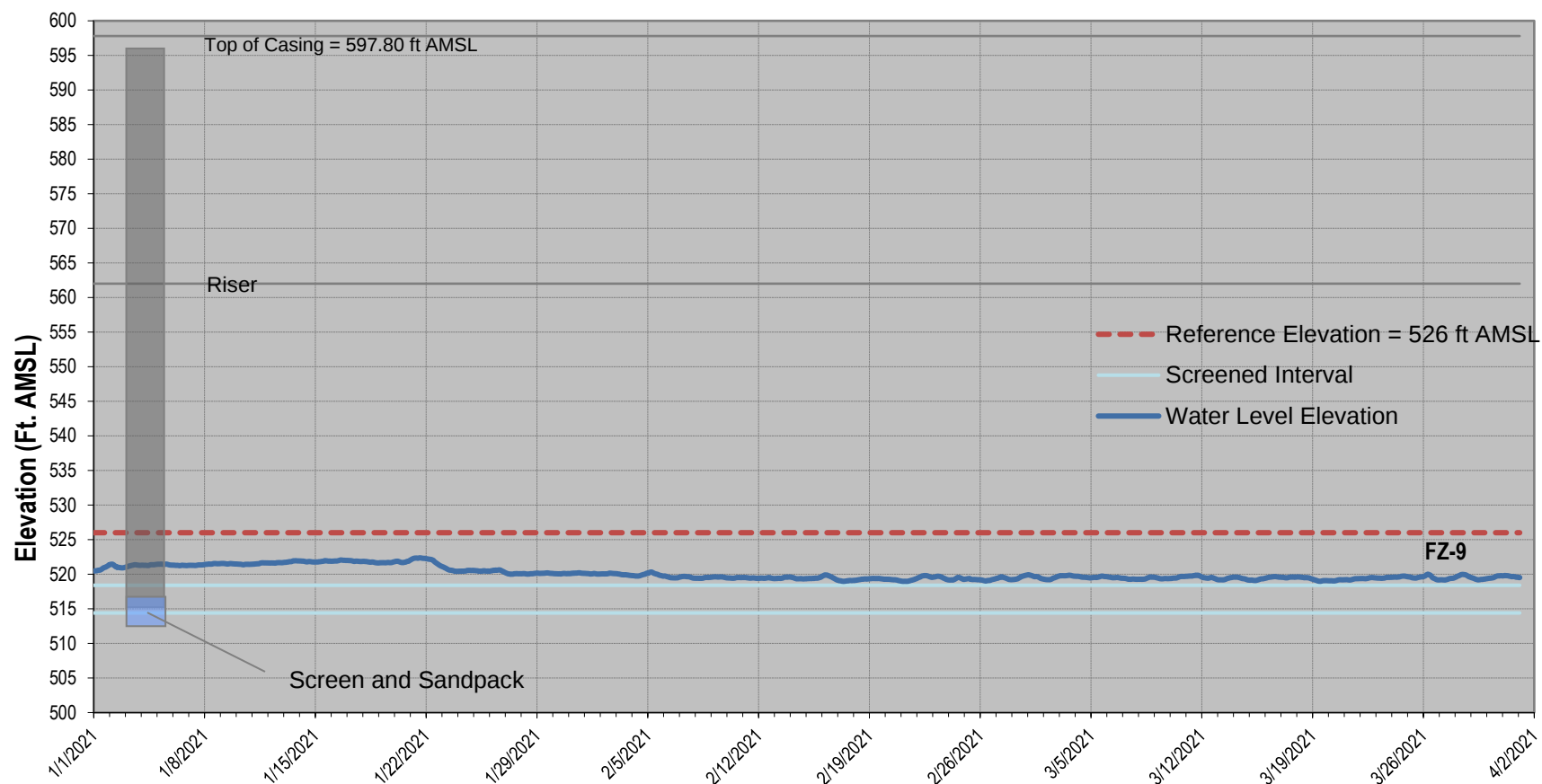


figure 10

PMW-1M-09 1st Quarter 2021 - Hourly Water Level Elevation  
 1st Quarter Report  
 Hyde Park Landfill Site  
 Glenn Springs Holdings, Inc.



**Glenn Springs Holdings, Inc.**

A subsidiary of Occidental Petroleum

**Water Level Elevation Summary  
First Quarter - 2021  
Hyde Park RRT Program**

| Well              | Reference Elevation<br>(ft AMSL) | Depth to Water<br>(ft) | Water Level Elevation<br>(ft AMSL) |
|-------------------|----------------------------------|------------------------|------------------------------------|
| <b>Overburden</b> |                                  |                        |                                    |
| CMW-2OB           | 590.79                           | 0.87                   | 589.92                             |
| CMW-3OB           | 582.13                           | 10.30                  | 571.83                             |
| CMW-4OB           | 574.28                           | Surcharged             | -                                  |
| CMW-5OB           | 583.43                           | 5.08                   | 578.35                             |
| CMW-6OB           | 571.89                           | 0.13                   | 571.76                             |
| CMW-7OB           | 611.00                           | 4.39                   | 606.61                             |
| CMW-8OB           | 616.11                           | Dry                    | -                                  |
| CMW-9OB           | 571.76                           | Dry                    | -                                  |
| CMW-1OB           | 576.80                           | 5.51                   | 571.29                             |
| CMW-11OB          | 572.85                           | 2.89                   | 569.96                             |
| CMW-12OB          | 594.74                           | 7.91                   | 586.83                             |
| MH20              | 605.87                           | 4.69                   | 601.18                             |
| MH21              | 599.77                           | 6.13                   | 593.64                             |
| MH22              | 593.37                           | Dry                    | -                                  |
| MH23              | 587.05                           | 12.18                  | 574.87                             |
| MH24              | 582.57                           | 8.98                   | 573.59                             |
| MH25              | 583.82                           | Dry                    | -                                  |
| MH26              | 584.48                           | Dry                    | -                                  |
| MH27              | 586.12                           | 10.83                  | 575.29                             |
| MH28              | 585.23                           | 16.89                  | 568.34                             |
| MH29              | 604.58                           | Dry                    | -                                  |
| MH30              | 599.49                           | 10.04                  | 589.45                             |
| MH31              | 590.10                           | 9.67                   | 580.43                             |
| MH32              | 592.01                           | 9.65                   | 582.36                             |
| MH33              | 592.51                           | 8.71                   | 583.80                             |
| MH34              | 598.34                           | 7.15                   | 591.19                             |
| MH35              | 605.69                           | 6.57                   | 599.12                             |
| MH35A             | 605.69                           | 7.17                   | 598.52                             |
| OMW-1             | 605.28                           | 5.59                   | 599.69                             |
| OMW-2             | 605.99                           | 3.59                   | 602.40                             |
| OMW-3             | 598.63                           | 9.98                   | 588.65                             |
| OMW-4R            | 601.17                           | 11.28                  | 589.89                             |
| OMW-5R            | 591.31                           | 5.78                   | 585.53                             |
| OMW-6             | 587.62                           | 1.93                   | 585.69                             |
| OMW-7             | 592.74                           | 7.00                   | 585.74                             |
| OMW-8R2           | 594.67                           | 8.67                   | 586.00                             |
| OMW-9             | 595.27                           | 8.23                   | 587.04                             |
| OMW-10R           | 595.13                           | 9.16                   | 585.97                             |
| OMW-11R           | 597.52                           | 5.62                   | 591.90                             |
| OMW-12R           | 596.71                           | 4.35                   | 592.36                             |
| OMW-13R           | 601.50                           | 9.52                   | 591.98                             |
| OMW-14R           | 599.64                           | No Access              | -                                  |
| OMW-15            | 607.48                           | 5.09                   | 602.39                             |
| OMW-16R           | 607.62                           | 4.37                   | 603.25                             |
| SC-2              | 625.61                           | 22.99                  | 602.62                             |
| SC-3              | 638.72                           | 40.69                  | 598.03                             |
| SC-4              | 639.35                           | 39.27                  | 600.08                             |
| SC-5              | 634.07                           | 31.82                  | 602.25                             |
| SC-6              | 631.15                           | 19.86                  | 611.29                             |

**Water Level Elevation Summary  
First Quarter - 2021  
Hyde Park RRT Program**

| <b>Well</b>            | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Water Level Elevation<br/>(ft AMSL)</b> |
|------------------------|------------------------------------------|--------------------------------|--------------------------------------------|
| <b>Shallow Bedrock</b> |                                          |                                |                                            |
| CMW-1SH                | 576.11                                   | 12.13                          | 563.98                                     |
| CMW-2SH                | 590.51                                   | 17.72                          | 572.79                                     |
| CMW-3SH                | 581.91                                   | 27.61                          | 554.30                                     |
| CMW-4SH                | 574.16                                   | 7.20                           | 566.96                                     |
| CMW-5SH                | 583.36                                   | 7.39                           | 575.97                                     |
| CMW-6SH                | 572.05                                   | 9.60                           | 562.45                                     |
| CMW-7SH                | 610.58                                   | 12.36                          | 598.22                                     |
| CMW-8SH                | 615.95                                   | 7.35                           | 608.60                                     |
| CMW-9SH                | 571.96                                   | 12.09                          | 559.87                                     |
| CMW-11SH               | 573.21                                   | 7.85                           | 565.36                                     |
| CMW-12SH               | 597.02                                   | 24.62                          | 572.40                                     |
| <b>Flow Zone 1</b>     |                                          |                                |                                            |
| G1U-01                 | 617.08                                   | 15.12                          | 601.96                                     |
| G6-01                  | 609.24                                   | 7.48                           | 601.76                                     |
| H2U-01                 | 620.92                                   | 10.50                          | 610.42                                     |
| H5-01                  | 617.61                                   | 23.37                          | 594.24                                     |
| I1-01                  | 625.58                                   | 24.42                          | 601.16                                     |
| <b>Flow Zone 2</b>     |                                          |                                |                                            |
| F2U-02                 | 599.89                                   | 24.59                          | 575.30                                     |
| F4U-02                 | 602.32                                   | 16.18                          | 586.14                                     |
| G1-02                  | 616.86                                   | 24.73                          | 592.13                                     |
| G6-02                  | 608.65                                   | 17.15                          | 591.50                                     |
| H2U-02                 | 620.88                                   | 26.42                          | 594.46                                     |
| H5-02                  | 617.47                                   | 23.32                          | 594.15                                     |
| I1-02                  | 625.47                                   | 34.58                          | 590.89                                     |
| J2U-02                 | 609.66                                   | 11.99                          | 597.67                                     |
| J5U-02                 | 606.21                                   | 7.91                           | 598.30                                     |
| J6-02                  | 609.23                                   | 11.34                          | 597.89                                     |
| <b>Flow Zone 4</b>     |                                          |                                |                                            |
| AFW-2U-04              | 593.48                                   | 17.28                          | 576.20                                     |
| D1U-04                 | 593.77                                   | 12.35                          | 581.42                                     |
| D2U-04                 | 590.65                                   | 11.20                          | 579.45                                     |
| E6-04                  | 578.23                                   | 12.52                          | 565.71                                     |
| F2U-04                 | 599.76                                   | 21.80                          | 577.96                                     |
| F4U-04                 | 602.19                                   | 15.88                          | 586.31                                     |
| F6-04                  | 588.06                                   | 18.31                          | 569.75                                     |
| G1U-04                 | 616.96                                   | 24.91                          | 592.05                                     |
| G6-04                  | 609.15                                   | 17.30                          | 591.85                                     |
| H5-04                  | 617.40                                   | 23.30                          | 594.10                                     |
| I1-04                  | 625.30                                   | 38.00                          | 587.30                                     |
| J2U-04                 | 609.42                                   | 14.78                          | 594.64                                     |
| J5U-04                 | 606.05                                   | 17.31                          | 588.74                                     |
| J6-04                  | 609.12                                   | 27.47                          | 581.65                                     |

**Water Level Elevation Summary  
First Quarter - 2021  
Hyde Park RRT Program**

| <b>Well</b>        | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Water Level Elevation<br/>(ft AMSL)</b> |
|--------------------|------------------------------------------|--------------------------------|--------------------------------------------|
| <b>Flow Zone 5</b> |                                          |                                |                                            |
| AFW-2U-05          | 593.33                                   | 17.13                          | 576.20                                     |
| AGW-1U-05          | 591.80                                   | 4.42                           | 587.38                                     |
| D1U-05             | 593.51                                   | 12.84                          | 580.67                                     |
| D2U-05             | 590.56                                   | 10.20                          | 580.36                                     |
| E6-05              | 578.04                                   | 12.19                          | 565.85                                     |
| F2U-05             | 599.64                                   | 21.45                          | 578.19                                     |
| F4U-05             | 602.06                                   | 17.42                          | 584.64                                     |
| F6-05              | 587.85                                   | 18.20                          | 569.65                                     |
| G6-05              | 609.13                                   | 17.52                          | 591.61                                     |
| H2M-05             | 621.59                                   | 29.64                          | 591.95                                     |
| H5-05              | 617.31                                   | 24.52                          | 592.79                                     |
| I1-05              | 625.25                                   | 72.50                          | 552.75                                     |
| J2U-05             | 609.30                                   | 27.93                          | 581.37                                     |
| J5U-05             | 605.87                                   | 24.30                          | 581.57                                     |
| J6-05              | 609.02                                   | 27.70                          | 581.32                                     |
| PMW-1U-05          | 598.00                                   | 18.54                          | 579.46                                     |
| <b>Flow Zone 6</b> |                                          |                                |                                            |
| ABP-7-06           | 575.78                                   | Dry                            | -                                          |
| AFW-1U-06          | 571.83                                   | 14.03                          | 557.80                                     |
| AFW-2U-06          | 593.22                                   | 47.96                          | 545.26                                     |
| AGW-1U-06          | 591.66                                   | 38.11                          | 553.55                                     |
| B2U-06             | 589.29                                   | 35.31                          | 553.98                                     |
| C3-06              | 585.78                                   | 37.46                          | 548.32                                     |
| D1U-06             | 593.25                                   | 44.81                          | 548.44                                     |
| D2U-06             | 590.38                                   | 41.18                          | 549.20                                     |
| E6-06              | 577.99                                   | 4.20                           | 573.79                                     |
| F2M-06             | 599.06                                   | 47.22                          | 551.84                                     |
| F4M-06             | 602.05                                   | 50.49                          | 551.56                                     |
| F6-06              | 587.84                                   | 26.97                          | 560.87                                     |
| G1M-06             | 616.75                                   | 42.78                          | 573.97                                     |
| G6-06              | 609.09                                   | 33.27                          | 575.82                                     |
| H2M-06             | 621.42                                   | 39.51                          | 581.91                                     |
| H5-06              | 617.17                                   | 29.06                          | 588.11                                     |
| I1-06              | 625.15                                   | 78.94                          | 546.21                                     |
| J2M-06             | 608.94                                   | 55.22                          | 553.72                                     |
| J5M-06             | 606.22                                   | 57.93                          | 548.29                                     |
| J6-06              | 608.93                                   | 54.26                          | 554.67                                     |
| PMW-1U-06          | 597.92                                   | 50.33                          | 547.59                                     |

**Water Level Elevation Summary  
First Quarter - 2021  
Hyde Park RRT Program**

| <b>Well</b>        | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Water Level Elevation<br/>(ft AMSL)</b> |
|--------------------|------------------------------------------|--------------------------------|--------------------------------------------|
| <b>Flow Zone 7</b> |                                          |                                |                                            |
| ABP-1-07           | 575.20                                   | 28.29                          | 546.91                                     |
| ABP-7-07           | 575.73                                   | 41.59                          | 534.14                                     |
| AFW-1M-07          | 571.41                                   | Dry                            | -                                          |
| AFW-2M-07          | 593.44                                   | 66.81                          | 526.63                                     |
| AGW-1M-07          | 592.91                                   | 47.07                          | 545.84                                     |
| B2M-07             | 589.52                                   | 58.31                          | 531.21                                     |
| C3-07              | 585.62                                   | 40.83                          | 544.79                                     |
| D1M-07             | 594.15                                   | 62.00                          | 532.15                                     |
| D2M-07             | 590.77                                   | 67.60                          | 523.17                                     |
| E6-07              | 577.91                                   | 23.15                          | 554.76                                     |
| F2M-07             | 598.91                                   | 78.70                          | 520.21                                     |
| F4M-07             | 601.91                                   | 76.55                          | 525.36                                     |
| F6-07              | 587.68                                   | 20.45                          | 567.23                                     |
| G1M-07             | 616.68                                   | 32.95                          | 583.73                                     |
| G6-07              | 609.06                                   | 25.51                          | 583.55                                     |
| H5-07              | 617.05                                   | 61.52                          | 555.53                                     |
| I1-07              | 625.14                                   | 80.19                          | 544.95                                     |
| J5M-07             | 606.07                                   | 60.37                          | 545.70                                     |
| J6-07              | 608.85                                   | 63.69                          | 545.16                                     |
| PMW-1M-07          | 598.50                                   | 67.97                          | 530.53                                     |
| <b>Flow Zone 9</b> |                                          |                                |                                            |
| ABP-1-09           | 575.19                                   | 40.51                          | 534.68                                     |
| ABP-7-09           | 575.67                                   | 41.49                          | 534.18                                     |
| AFW-1M-09          | 571.12                                   | 45.69                          | 525.43                                     |
| AFW-2M-09          | 593.32                                   | 72.28                          | 521.04                                     |
| AGW-1M-09          | 592.75                                   | 46.28                          | 546.47                                     |
| B2M-09             | 589.34                                   | 58.62                          | 530.72                                     |
| C3-09              | 585.00                                   | 42.11                          | 542.89                                     |
| D1M-09             | 594.02                                   | 74.11                          | 519.91                                     |
| D2M-09             | 590.66                                   | 70.82                          | 519.84                                     |
| E6-09              | 577.82                                   | 24.95                          | 552.87                                     |
| F2M-09             | 598.71                                   | 79.10                          | 519.61                                     |
| F4M-09             | 601.79                                   | 82.25                          | 519.54                                     |
| F6-09              | 587.53                                   | 15.19                          | 572.34                                     |
| G1M-09             | 616.58                                   | 36.61                          | 579.97                                     |
| G6-09              | 608.98                                   | 24.84                          | 584.14                                     |
| H2M-09             | 621.32                                   | 70.49                          | 550.83                                     |
| H5-09              | 616.93                                   | 71.62                          | 545.31                                     |
| I1-09              | 624.91                                   | 61.44                          | 563.47                                     |
| J2M-09             | 608.77                                   | 62.23                          | 546.54                                     |
| J5M-09             | 605.82                                   | 60.11                          | 545.71                                     |
| J6-09              | 608.76                                   | 43.68                          | 565.08                                     |
| PMW-1M-09          | 598.34                                   | 78.52                          | 519.82                                     |

**Water Level Elevation Summary  
First Quarter - 2021  
Hyde Park RRT Program**

| <b>Well</b>         | <b>Reference Elevation<br/>(ft AMSL)</b> | <b>Depth to Water<br/>(ft)</b> | <b>Water Level Elevation<br/>(ft AMSL)</b> |
|---------------------|------------------------------------------|--------------------------------|--------------------------------------------|
| <b>Flow Zone 11</b> |                                          |                                |                                            |
| AFW-1L-11           | 572.10                                   | 63.22                          | 508.88                                     |
| AFW-2L-11           | 593.43                                   | 97.34                          | 496.09                                     |
| AGW-1L-11           | 592.71                                   | 8.83                           | 583.88                                     |
| B2L-11              | 589.65                                   | 86.35                          | 503.30                                     |
| D1L-11              | 593.80                                   | 91.42                          | 502.38                                     |
| D2L-11              | 590.21                                   | 66.82                          | 523.39                                     |
| E6-11               | 577.72                                   | 44.79                          | 532.93                                     |
| F2L-11              | 598.94                                   | 43.82                          | 555.12                                     |
| F4L-11              | 602.22                                   | 31.52                          | 570.70                                     |
| F6-11               | 587.40                                   | 59.89                          | 527.51                                     |
| G1L-11              | 616.84                                   | 30.29                          | 586.55                                     |
| G6-11               | 608.89                                   | 19.80                          | 589.09                                     |
| H2L-11              | 620.73                                   | 62.43                          | 558.30                                     |
| H5-11               | 616.81                                   | 75.21                          | 541.60                                     |
| I1-11               | 624.75                                   | 79.50                          | 545.25                                     |
| J5L-11              | 607.20                                   | 52.93                          | 554.27                                     |
| J6-11               | 608.68                                   | 22.58                          | 586.10                                     |
| PMW-1L-11           | 598.84                                   | 86.12                          | 512.72                                     |
| <b>Purge Wells</b>  |                                          |                                |                                            |
| APW-1               | 564.98                                   | 56.28                          | 508.70                                     |
| APW-2               | 569.89                                   | 57.69                          | 512.20                                     |
| PW-1L               | 593.16                                   | 97.26                          | 495.90                                     |
| PW-1U               | 593.50                                   | 44.20                          | 549.30                                     |
| PW-2L               | 597.29                                   | 102.49                         | 494.80                                     |
| PW-2M               | 596.61                                   | 82.31                          | 514.30                                     |
| PW-2UR              | 594.75                                   | 35.25                          | 559.50                                     |
| PW-3L               | 599.05                                   | 99.85                          | 499.20                                     |
| PW-3M               | 597.79                                   | 79.79                          | 518.00                                     |
| PW-4M               | 606.93                                   | 82.63                          | 524.30                                     |
| PW-4U               | 604.85                                   | 9.35                           | 595.50                                     |
| PW-5UR              | 601.31                                   | 45.51                          | 555.80                                     |
| PW-6UMR             | 609.31                                   | 104.41                         | 504.90                                     |
| PW-6UR              | 608.47                                   | 50.17                          | 558.30                                     |
| PW-7U               | 592.47                                   | 52.47                          | 540.00                                     |
| PW-8M               | 592.67                                   | 73.77                          | 518.90                                     |
| PW-8U               | 589.27                                   | 38.87                          | 550.40                                     |
| PW-9U               | 587.47                                   | 32.47                          | 555.00                                     |
| 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
- Surcharged - Well surcharged
- No Access - Well covered by metal hoppers

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2021  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 01/01/21 |            |               |
| 01/02/21 |            |               |
| 01/03/21 | 7.0        | 150,000       |
| 01/04/21 | 7.1        | 202,000       |
| 01/05/21 | 7.0        | 235,000       |
| 01/06/21 | 7.3        | 222,000       |
| 01/07/21 | 7.1        | 40,000        |
| 01/08/21 |            |               |
| 01/09/21 |            |               |
| 01/10/21 |            |               |
| 01/11/21 | 7.0        | 244,000       |
| 01/12/21 | 7.0        | 156,000       |
| 01/13/21 |            |               |
| 01/14/21 | 7.1        | 20,000        |
| 01/15/21 |            |               |
| 01/16/21 |            |               |
| 01/17/21 |            |               |
| 01/18/21 | 7.8        | 211,000       |
| 01/19/21 | 7.4        | 45,000        |
| 01/20/21 |            |               |
| 01/21/21 | 7.2        | 191,000       |
| 01/22/21 |            |               |
| 01/23/21 |            |               |
| 01/24/21 |            |               |
| 01/25/21 |            |               |
| 01/26/21 | 7.1        | 179,000       |
| 01/27/21 | 7.2        | 32,000        |
| 01/28/21 | 7.1        | 125,000       |
| 01/29/21 |            |               |
| 01/30/21 |            |               |
| 01/31/21 |            |               |
| 02/01/21 |            |               |
| 02/02/21 | 7.0        | 146,000       |
| 02/03/21 | 7.1        | 110,000       |
| 02/04/21 |            |               |
| 02/05/21 |            |               |
| 02/06/21 |            |               |

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2021  
Hyde Park RRT Program**

| Date     | Effluent   |               |
|----------|------------|---------------|
|          | pH<br>(su) | Flow<br>(gal) |
| 02/07/21 |            |               |
| 02/08/21 | 7.3        | 139,000       |
| 02/09/21 | 7.6        | 119,000       |
| 02/10/21 |            |               |
| 02/11/21 | 7.0        | 73,000        |
| 02/12/21 |            |               |
| 02/13/21 |            |               |
| 02/14/21 |            |               |
| 02/15/21 |            |               |
| 02/16/21 |            |               |
| 02/17/21 | 7.0        | 137,000       |
| 02/18/21 | 7.1        | 26,000        |
| 02/19/21 |            |               |
| 02/20/21 |            |               |
| 02/21/21 |            |               |
| 02/22/21 |            |               |
| 02/23/21 | 7.1        | 114,000       |
| 02/24/21 | 7.0        | 116,000       |
| 02/25/21 | 7.4        | 212,000       |
| 02/26/21 | 7.1        | 65,000        |
| 02/27/21 |            |               |
| 02/28/21 |            |               |
| 03/01/21 | 7.2        | 185,000       |
| 03/02/21 | 7.5        | 201,000       |
| 03/03/21 | 7.5        | 221,000       |
| 03/04/21 | 7.3        | 226,000       |
| 03/05/21 | 7.4        | 186,000       |
| 03/06/21 |            |               |
| 03/07/21 |            |               |
| 03/08/21 | 7.2        | 196,000       |
| 03/09/21 | 7.1        | 94,000        |
| 03/10/21 | 7.2        | 135,000       |
| 03/11/21 | 7.1        | 40,000        |
| 03/12/21 |            |               |
| 03/13/21 |            |               |
| 03/14/21 |            |               |
| 03/15/21 | 7.0        | 165,000       |

**Leachate Treatment System Daily Effluent Monitoring Data  
First Quarter - 2021  
Hyde Park RRT Program**

| Date         | Effluent   |                  |
|--------------|------------|------------------|
|              | pH<br>(su) | Flow<br>(gal)    |
| 03/16/21     | 7.2        | 52,000           |
| 03/17/21     | 7.1        | 172,000          |
| 03/18/21     | 7.1        | 58,000           |
| 03/19/21     |            |                  |
| 03/20/21     |            |                  |
| 03/21/21     |            |                  |
| 03/22/21     | 7.2        | 138,000          |
| 03/23/21     | 7.5        | 47,000           |
| 03/24/21     | 7.1        | 48,000           |
| 03/25/21     | 7.2        | 22,000           |
| 03/26/21     |            |                  |
| 03/27/21     |            |                  |
| 03/28/21     |            |                  |
| 03/29/21     | 7.5        | 189,000          |
| 03/30/21     | 7.5        | 46,000           |
| 03/31/21     | 7.4        | 208,000          |
| <b>Total</b> |            | <b>5,938,000</b> |

## Notes:

su            - Standard Unit  
gal            - Gallons

Table 3

**Analytical Results Summary**  
**Weekly Sampling - Leachate Treatment System**  
**First Quarter - 2021**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 01/06/2021 | 01/13/2021 | 01/20/2021 | 01/27/2021 | 02/03/2021 | 02/10/2021 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 0.23 J     | 0.30 J     | 1.0 U      | 0.26 J     | 0.23 J     | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 4.8        | 5.3        | 4.5        | 4.3        | 3.6        | 3.1        |
|                          | 1,1,2-Trichloroethane            | µg/L  | 1.1        | 1.1        | 0.98 J     | 1.0        | 0.93 J     | 0.85 J     |
|                          | 1,1-Dichloroethane               | µg/L  | 2.3        | 3.4        | 2.7        | 3.1        | 2.7        | 2.6        |
|                          | 1,1-Dichloroethene               | µg/L  | 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      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 6.7        | 7.5        | 7.0        | 7.7        | 6.3        | 6.1        |
|                          | 1,2-Dichloropropane              | µg/L  | 0.82 J     | 0.81 J     | 0.80 J     | 0.84 J     | 0.86 J     | 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      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 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      |
|                          | 3-Chlorotoluene                  | µg/L  | 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      |
|                          | Benzene                          | µg/L  | 19         | 16         | 14         | 16         | 12         | 11         |
|                          | Bromodichloromethane             | µg/L  | 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      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 3.7        | 6.3        | 1.0 U      | 4.7        | 8.3        | 1.0 U      |
|                          | Carbon tetrachloride             | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chlorobenzene                    | µg/L  | 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      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 11         | 13         | 9.4        | 9.9        | 8.0        | 6.4        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 2.1        | 2.3        | 2.0        | 2.5        | 2.1        | 1.9        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 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      |
|                          | Ethylbenzene                     | µg/L  | 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      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | Tetrachloroethene                | µg/L  | 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      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 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      |
|                          | Trichloroethene                  | µg/L  | 0.39 J     | 0.25 J     | 0.25 J     | 0.24 J     | 1.0 U      | 0.37 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 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      |
|                          | Vinyl chloride                   | µg/L  | 86         | 130        | 61         | 110        | 92         | 64         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0050 U   | 0.0050 U   | 0.0050 U   | 0.0050 U   | 0.0050 U   | 0.0053     |

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**  
**First Quarter - 2021**  
**Hyde Park RRT Program**

| Effluent                 | Parameter                        | Units | 02/17/2021 | 02/24/2021 | 03/03/2021 | 03/10/2021 | 03/17/2021 | 03/24/2021 |
|--------------------------|----------------------------------|-------|------------|------------|------------|------------|------------|------------|
| <b>Volatiles</b>         |                                  |       |            |            |            |            |            |            |
|                          | 1,1,1-Trichloroethane            | µg/L  | 0.29 J     | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,1,2,2-Tetrachloroethane        | µg/L  | 3.2        | 2.5        | 2.6        | 2.8        | 2.3        | 2.5        |
|                          | 1,1,2-Trichloroethane            | µg/L  | 0.88 J     | 0.75 J     | 0.61 J     | 0.61 J     | 0.54 J     | 0.60 J     |
|                          | 1,1-Dichloroethane               | µg/L  | 3.3        | 2.7        | 1.8        | 1.9        | 2.3        | 2.5        |
|                          | 1,1-Dichloroethene               | µg/L  | 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      |
|                          | 1,2-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,2-Dichloroethane               | µg/L  | 6.7        | 5.3        | 5.2        | 6.4        | 5.3        | 6.2        |
|                          | 1,2-Dichloropropane              | µg/L  | 1.0 U      | 1.0 U      | 0.60 J     | 0.61 J     | 0.55 J     | 0.63 J     |
|                          | 1,3-Dichlorobenzene              | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | 1,4-Dichlorobenzene              | µg/L  | 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      |
|                          | 3-Chlorotoluene                  | µg/L  | 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      |
|                          | Benzene                          | µg/L  | 8.8        | 8.4        | 14         | 18         | 10         | 12         |
|                          | Bromodichloromethane             | µg/L  | 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      |
|                          | Bromomethane (Methyl bromide)    | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Carbon disulfide                 | µg/L  | 6.4        | 6.8        | 2.4        | 1.4        | 1.0 U      | 4.1        |
|                          | Carbon tetrachloride             | µg/L  | 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      |
|                          | Chloroethane                     | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | Chloroform (Trichloromethane)    | µg/L  | 7.0        | 5.4        | 4.1        | 4.6        | 3.7        | 3.9        |
|                          | Chloromethane (Methyl chloride)  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
|                          | cis-1,2-Dichloroethene           | µg/L  | 1.8        | 1.6        | 1.7        | 2.2        | 1.5        | 1.7        |
|                          | cis-1,3-Dichloropropene          | µg/L  | 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      |
|                          | Ethylbenzene                     | µg/L  | 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      |
|                          | m-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | o-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | p-Monochlorobenzotrifluoride     | µg/L  | 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      |
|                          | Tetrachloroethene                | µg/L  | 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      |
|                          | trans-1,2-Dichloroethene         | µg/L  | 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      |
|                          | Trichloroethene                  | µg/L  | 1.0 U      | 1.0 U      | 1.0 U      | 0.21 J     | 1.0 U      | 0.27 J     |
|                          | Trichlorofluoromethane (CFC-11)  | µg/L  | 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      |
|                          | Vinyl chloride                   | µg/L  | 94         | 77         | 59         | 86         | 72         | 89         |
|                          | Xylenes (total)                  | µg/L  | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      | 3.0 U      |
| <b>General Chemistry</b> |                                  |       |            |            |            |            |            |            |
|                          | Phenolics (total)                | mg/L  | 0.0113     | 0.0103     | 0.0047 J   | 0.0050 U   | 0.0040 J   | 0.0050 U   |

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**  
**First Quarter - 2021**  
**Hyde Park RRT Program**

|                                   |              |                     |                     |
|-----------------------------------|--------------|---------------------|---------------------|
| <b>Sample Location:</b>           |              | <b>EFFLUENT</b>     | <b>EFFLUENT</b>     |
| <b>Sample ID:</b>                 |              | <b>HP 32321 EFF</b> | <b>HP 32321 EFF</b> |
| <b>Sample Date:</b>               |              | <b>3/23/2021</b>    | <b>3/23/2021</b>    |
| <b>Parameters</b>                 | <b>Units</b> |                     |                     |
| <b>Volatile Organic Compounds</b> |              |                     |                     |
| Vinyl chloride                    | µg/L         | 104                 | -                   |
| <b>General Chemistry</b>          |              |                     |                     |
| Phosphorus                        | mg/L         | -                   | 0.240               |

## Notes:

"-" - Not applicable

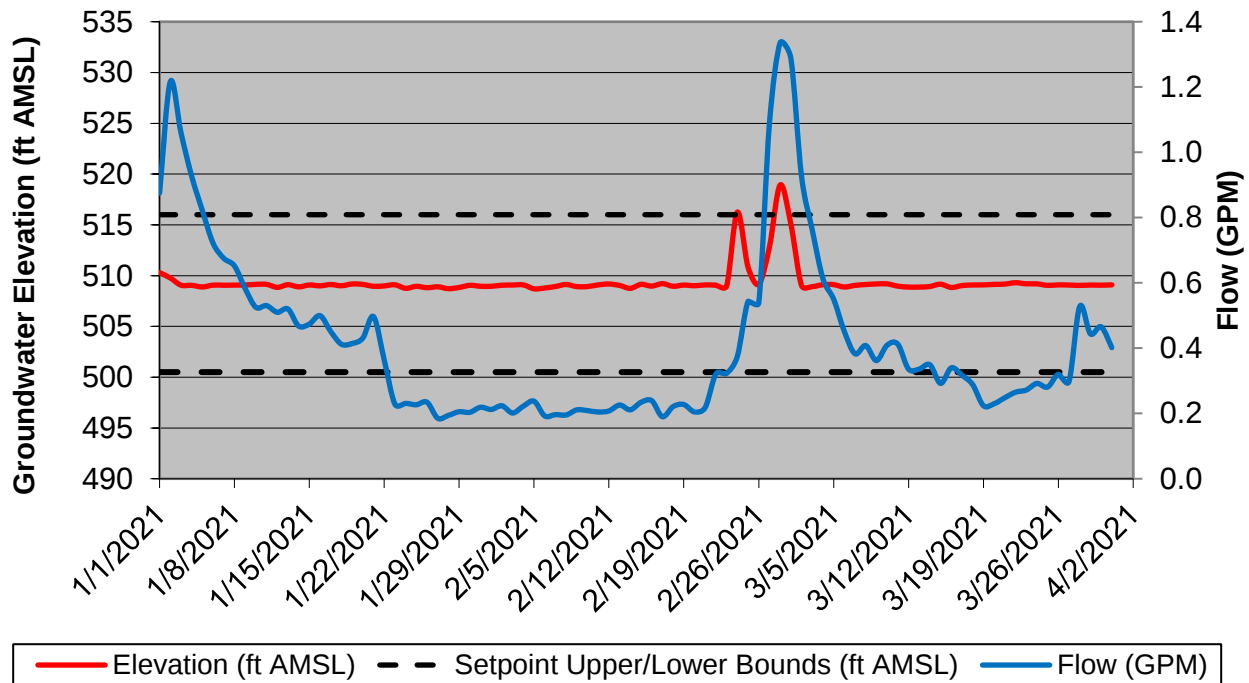
mg/L - Milligrams per liter

µg/L - Micrograms per liter

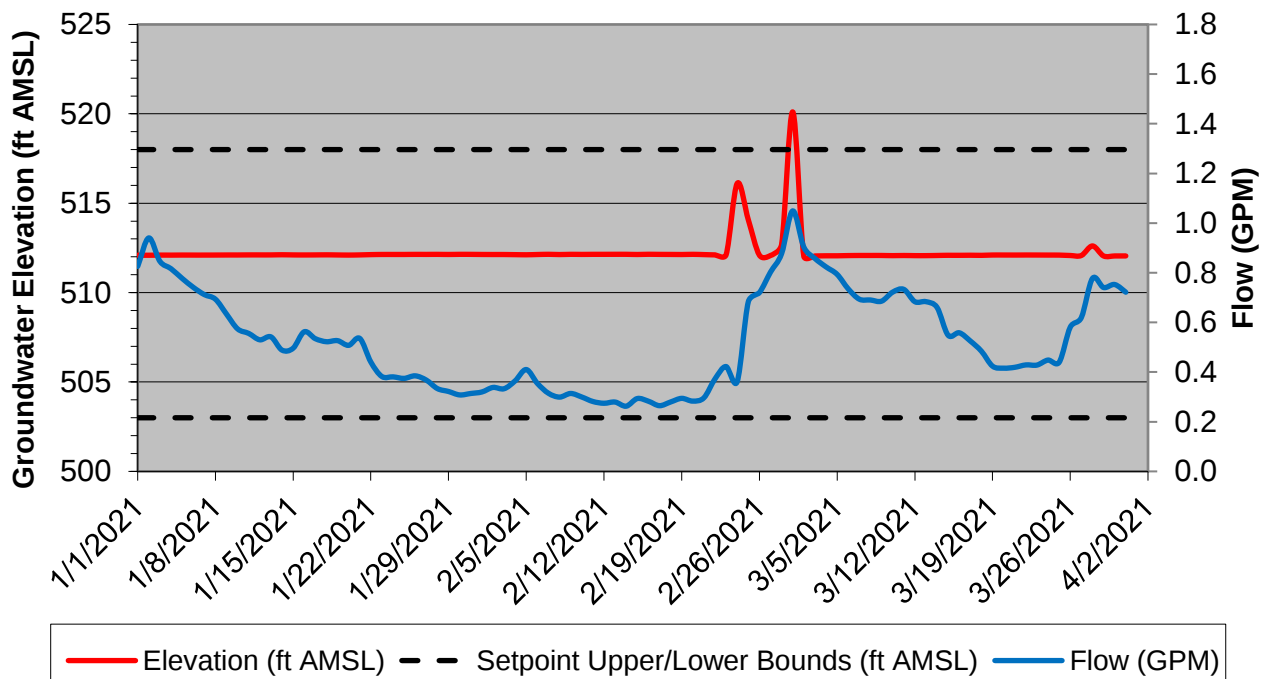
**Attachment A**  
**First Quarter 2021**  
**Pumping Well Performance Graphs**

FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well APW-1

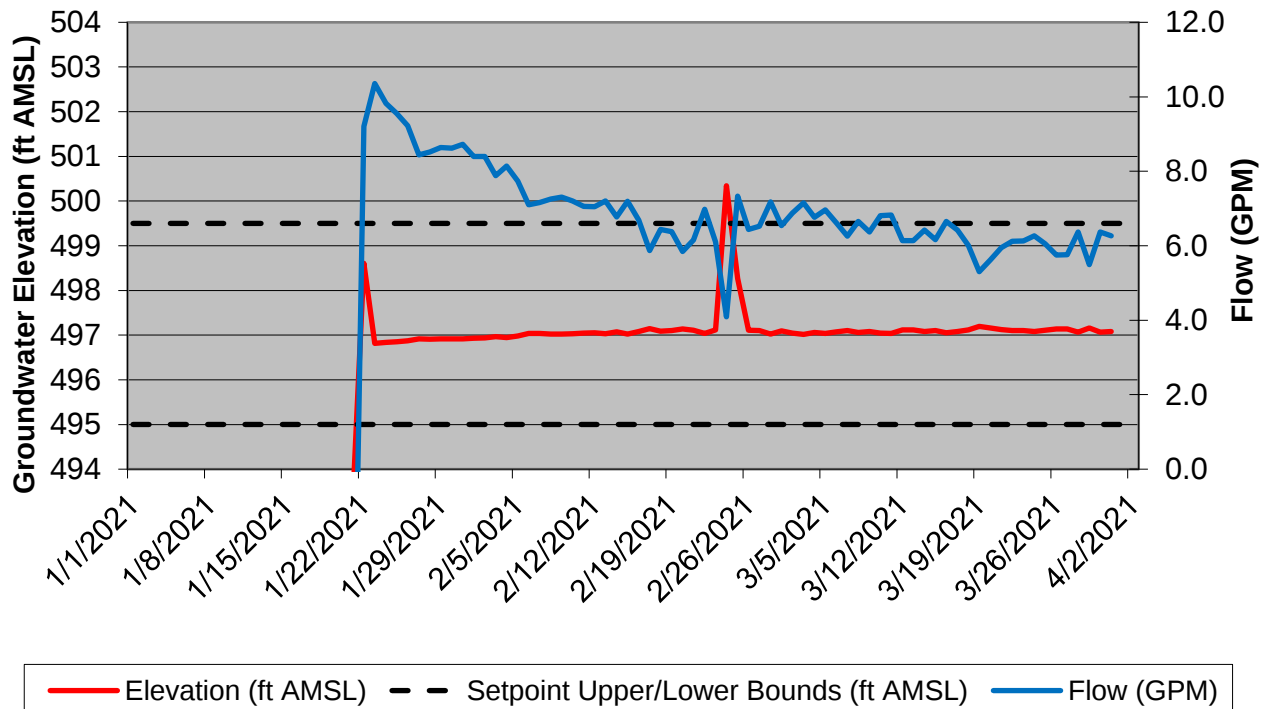


Well APW-2

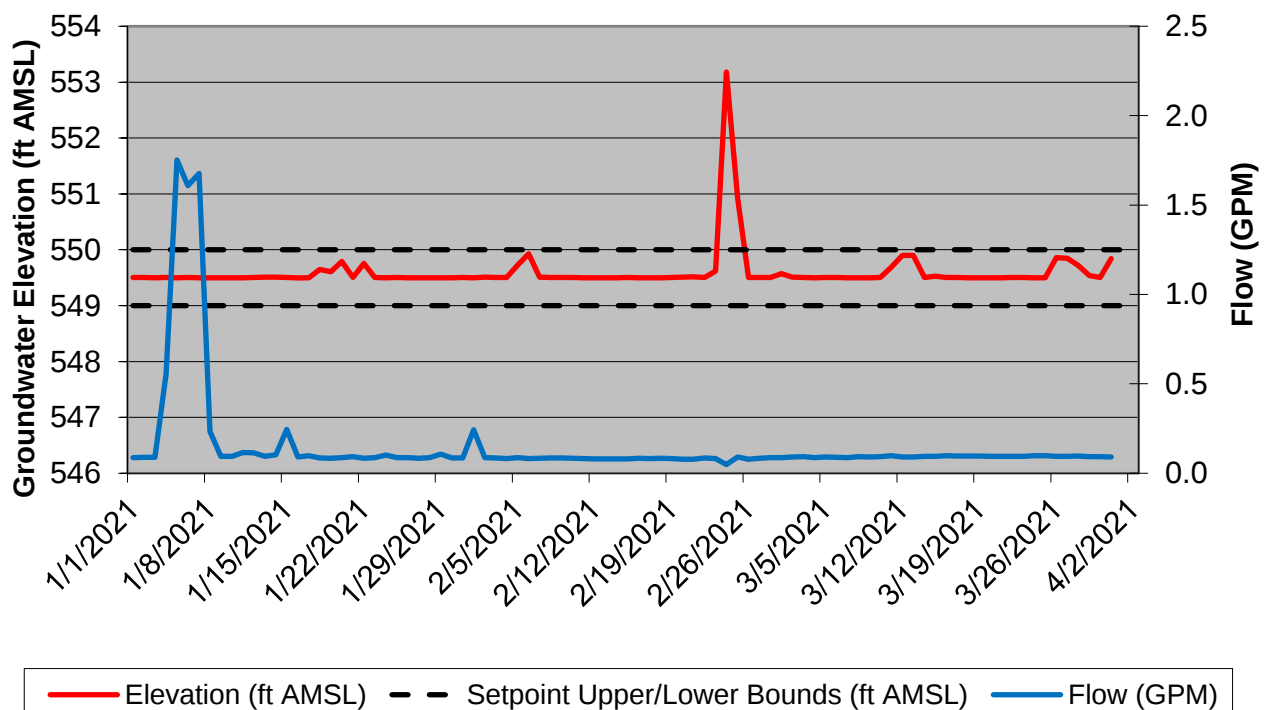


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-1L

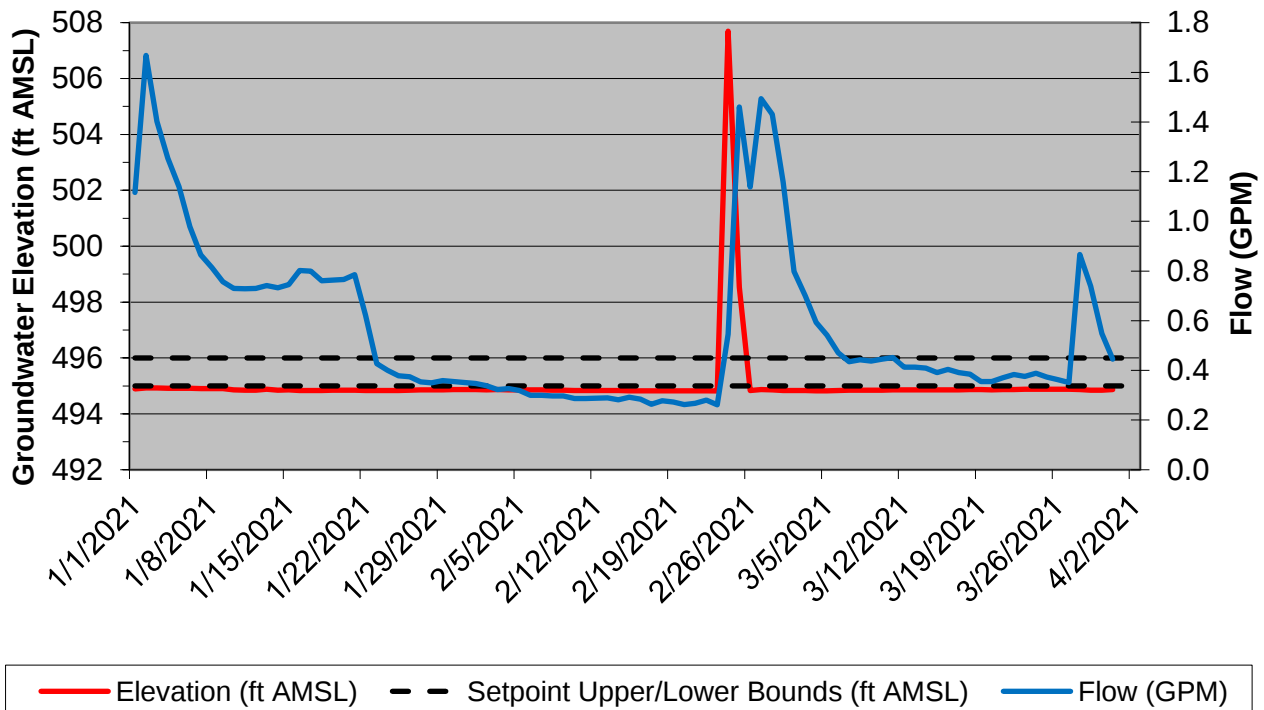


Well PW-1U

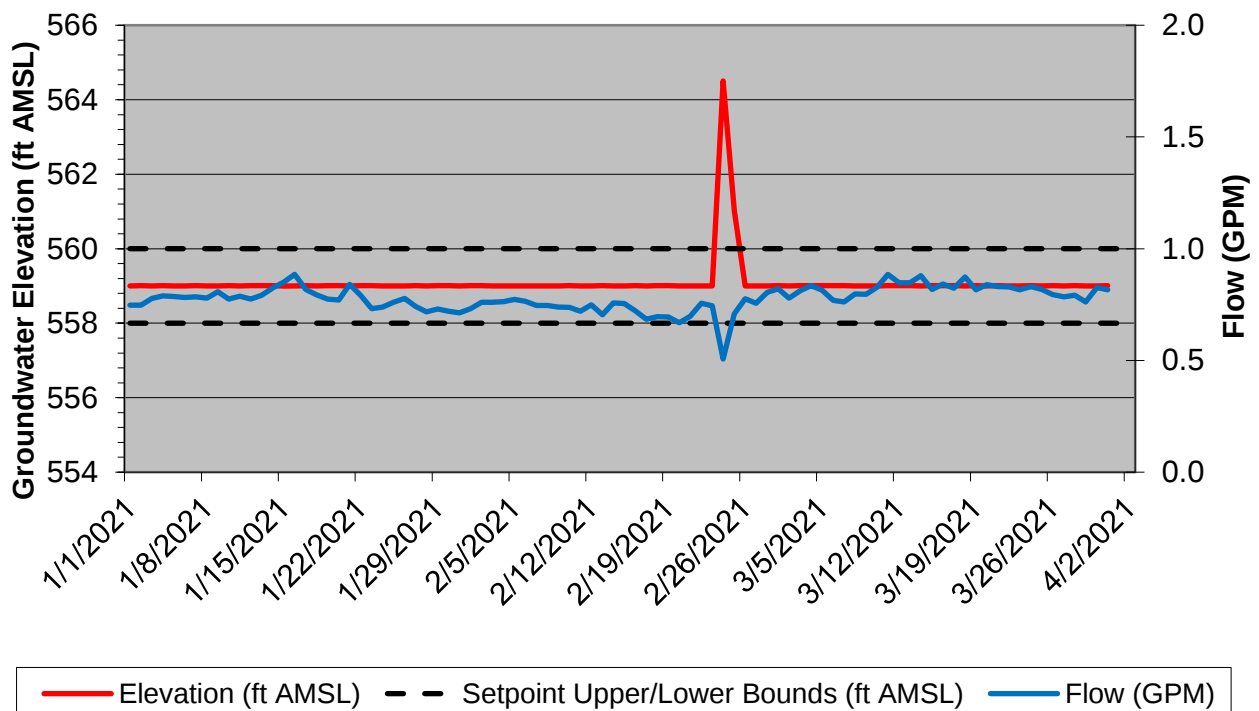


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-2L

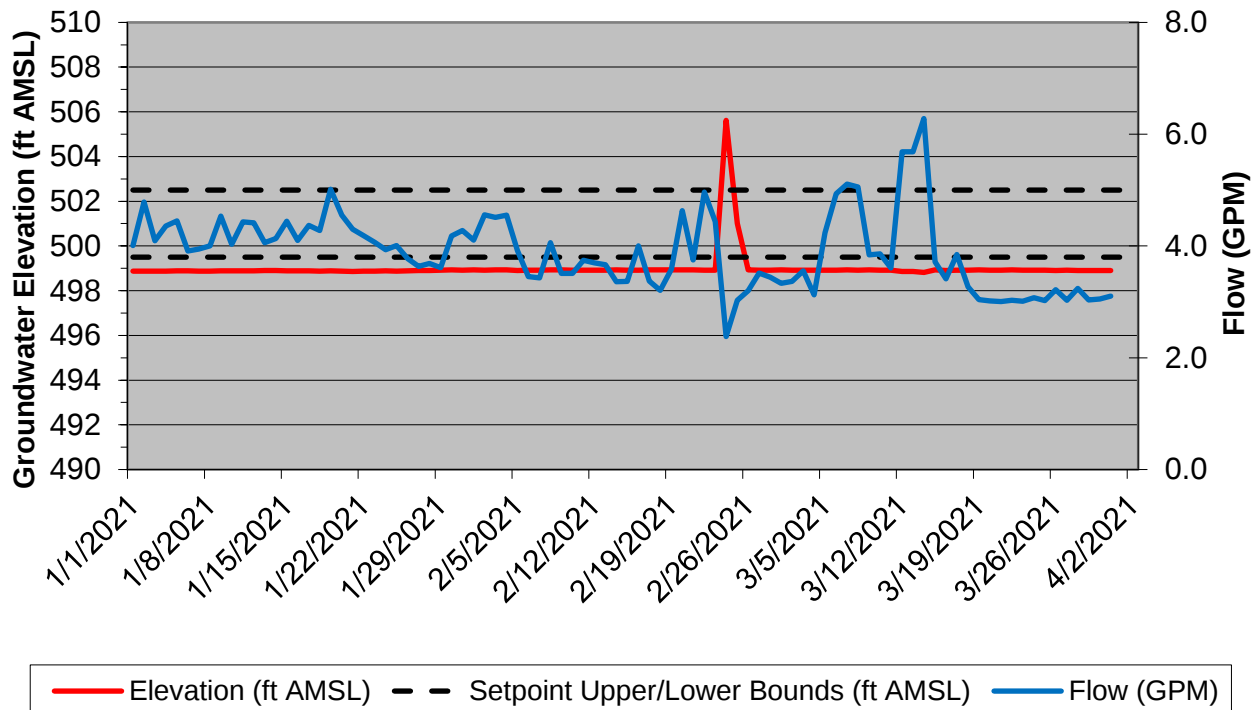


Well PW-2UR

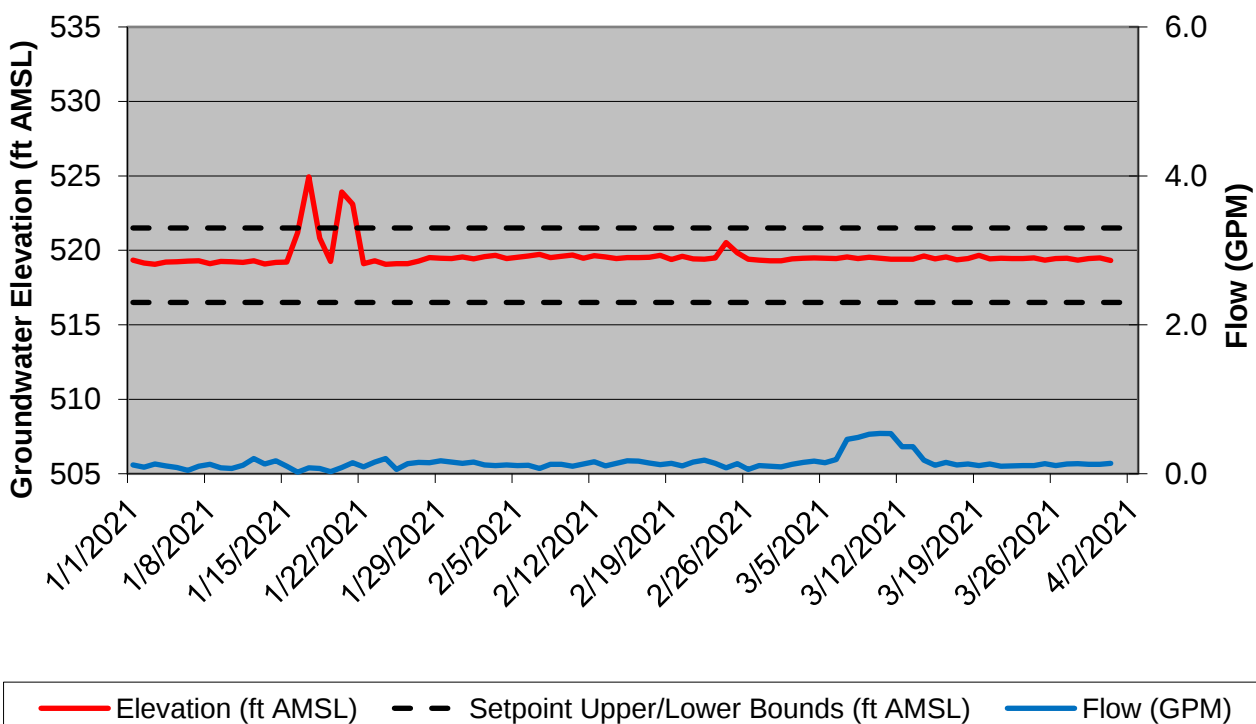


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-3L

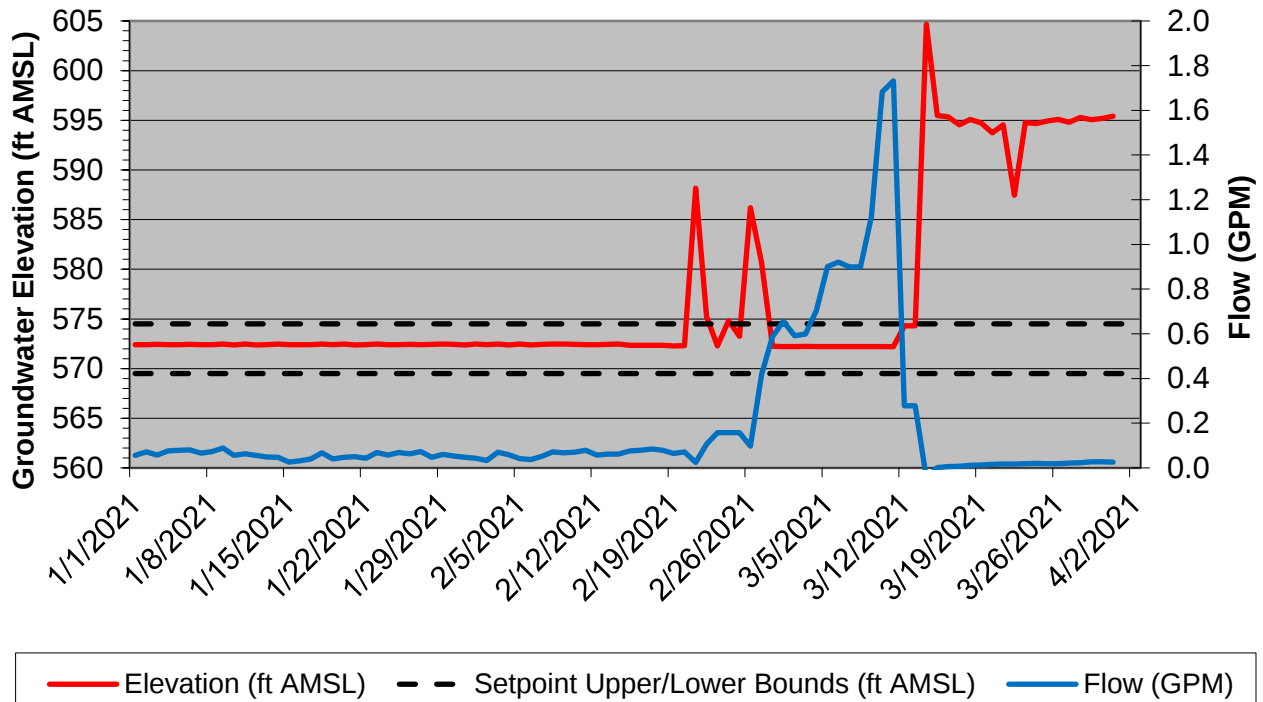


Well PW-3M

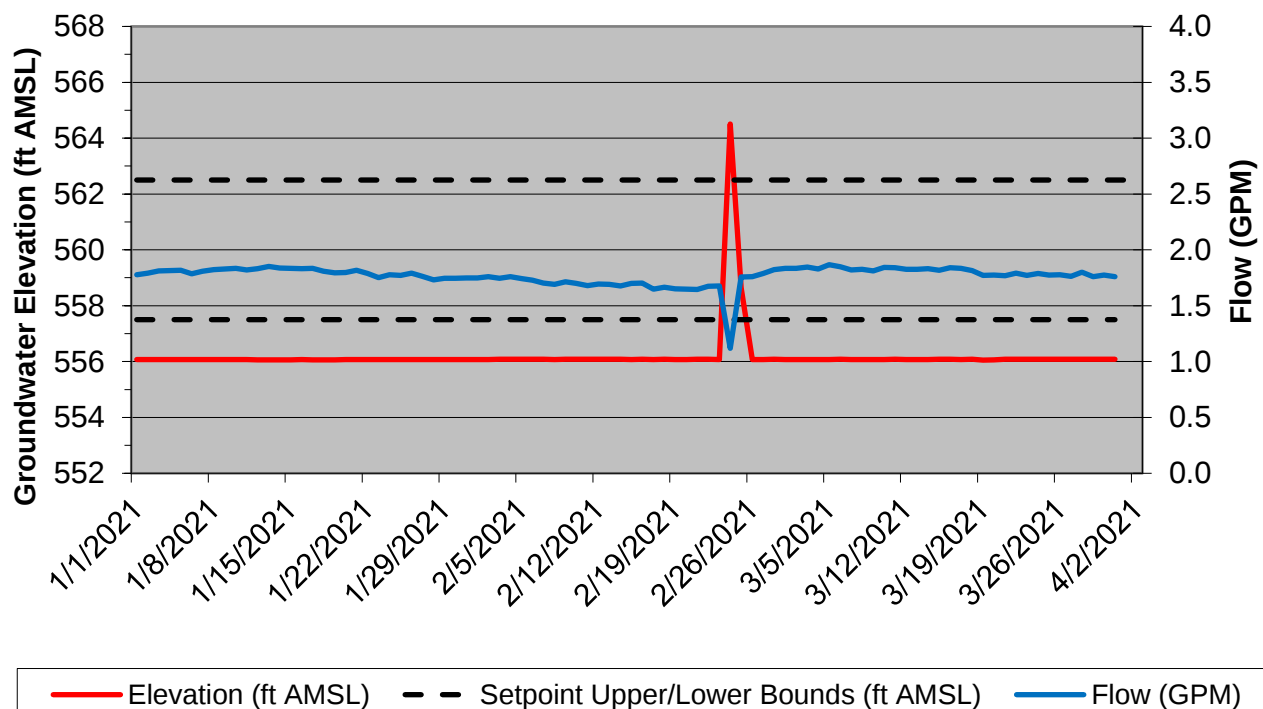


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-4U

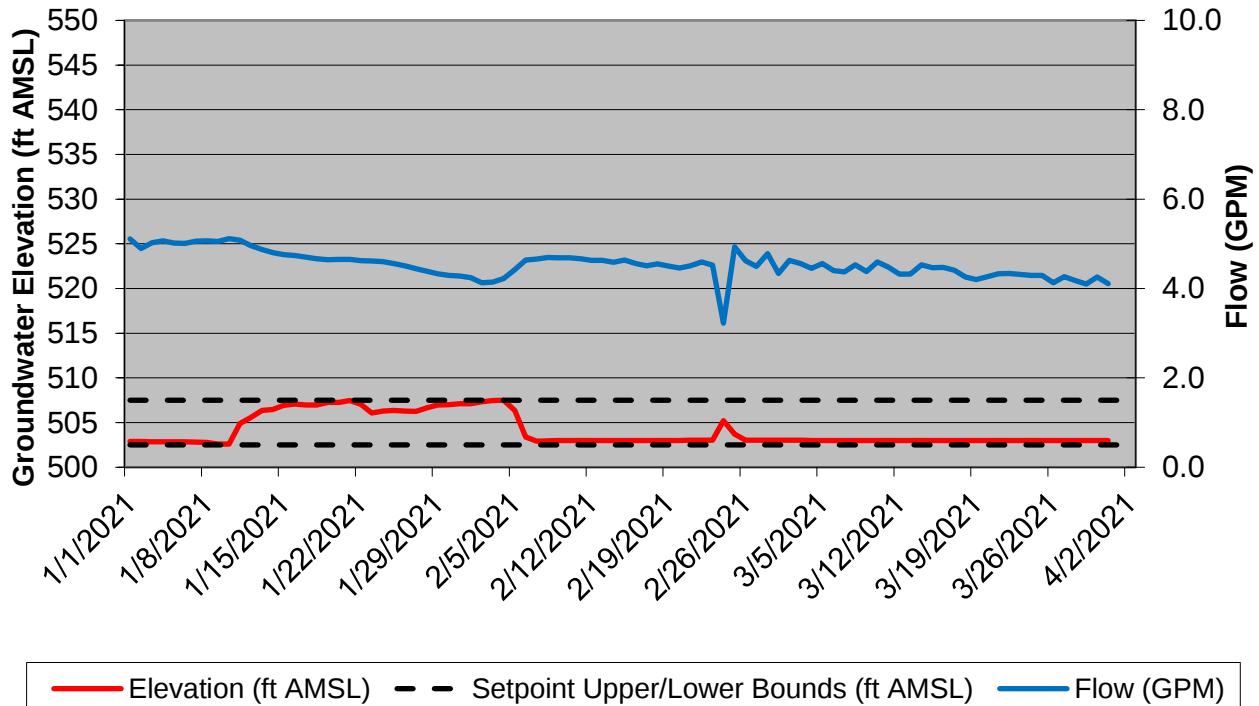


Well PW-5UR

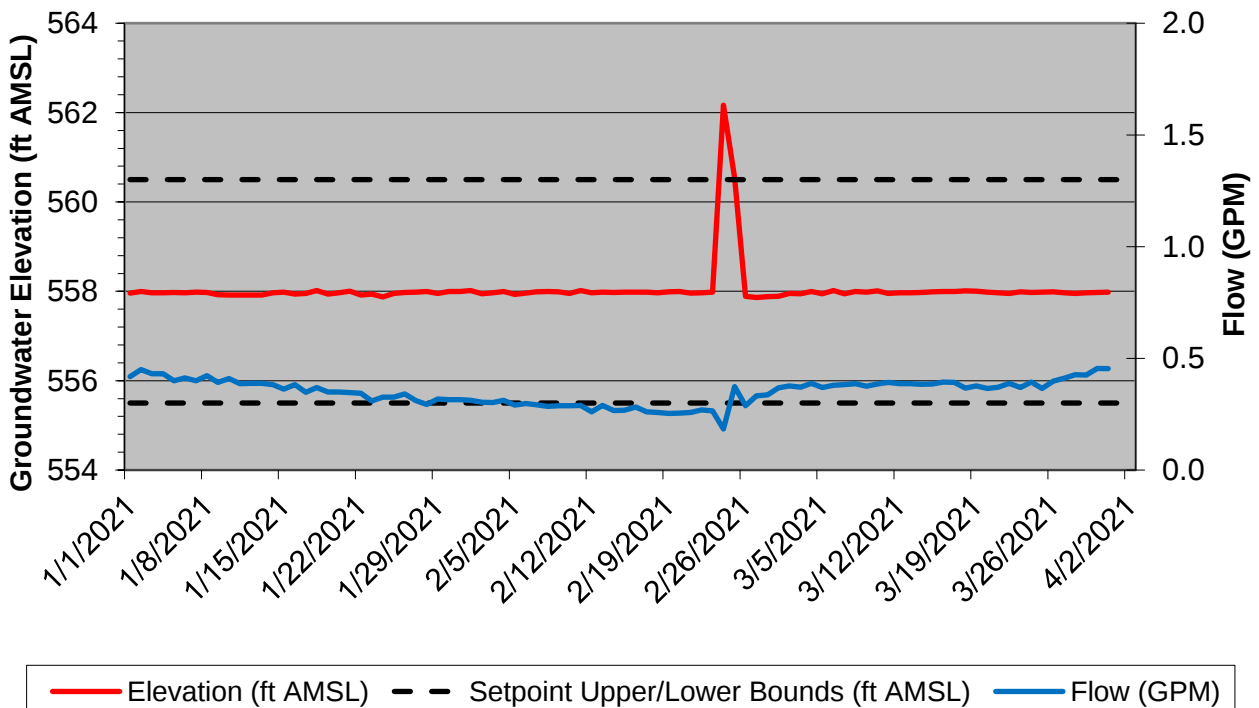


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-6MR

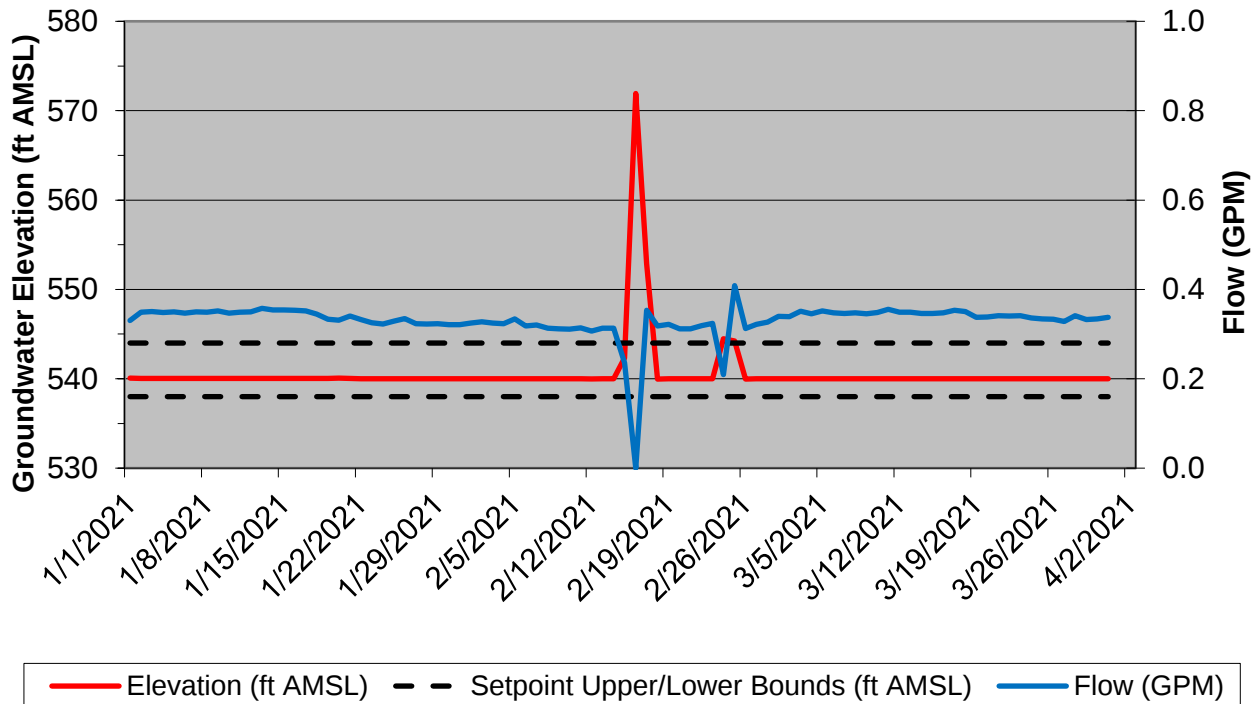


Well PW-6UR

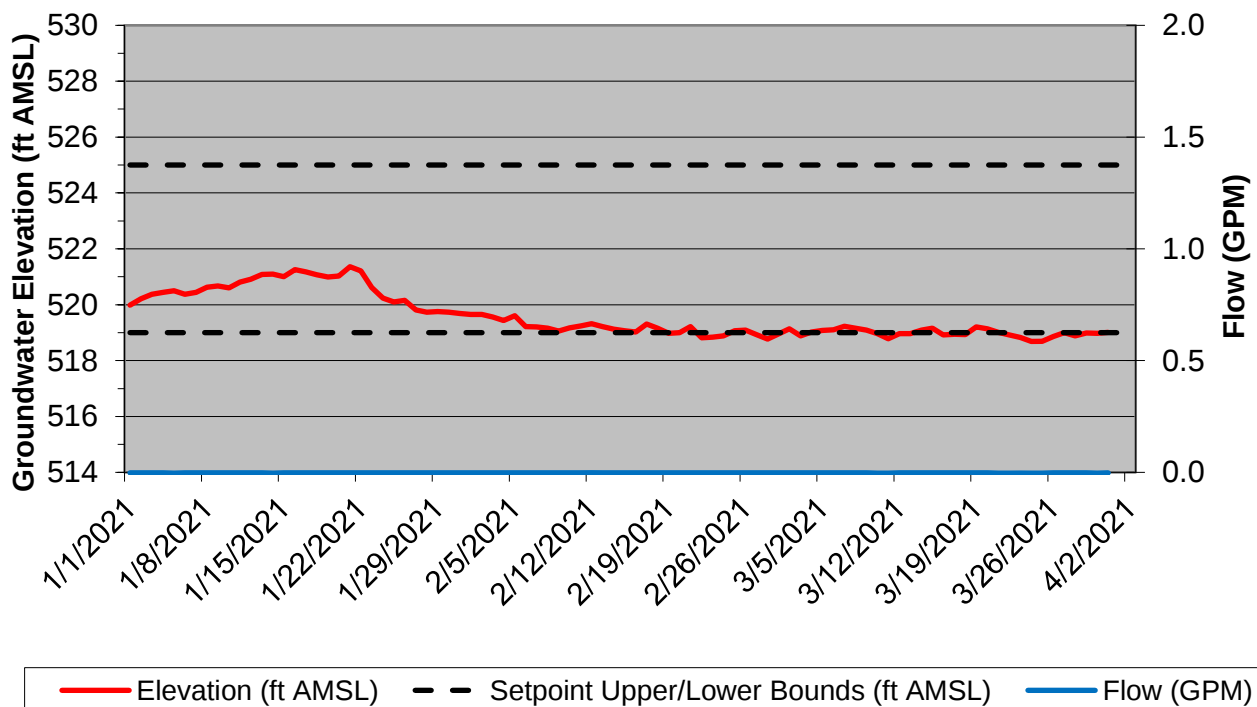


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-7U

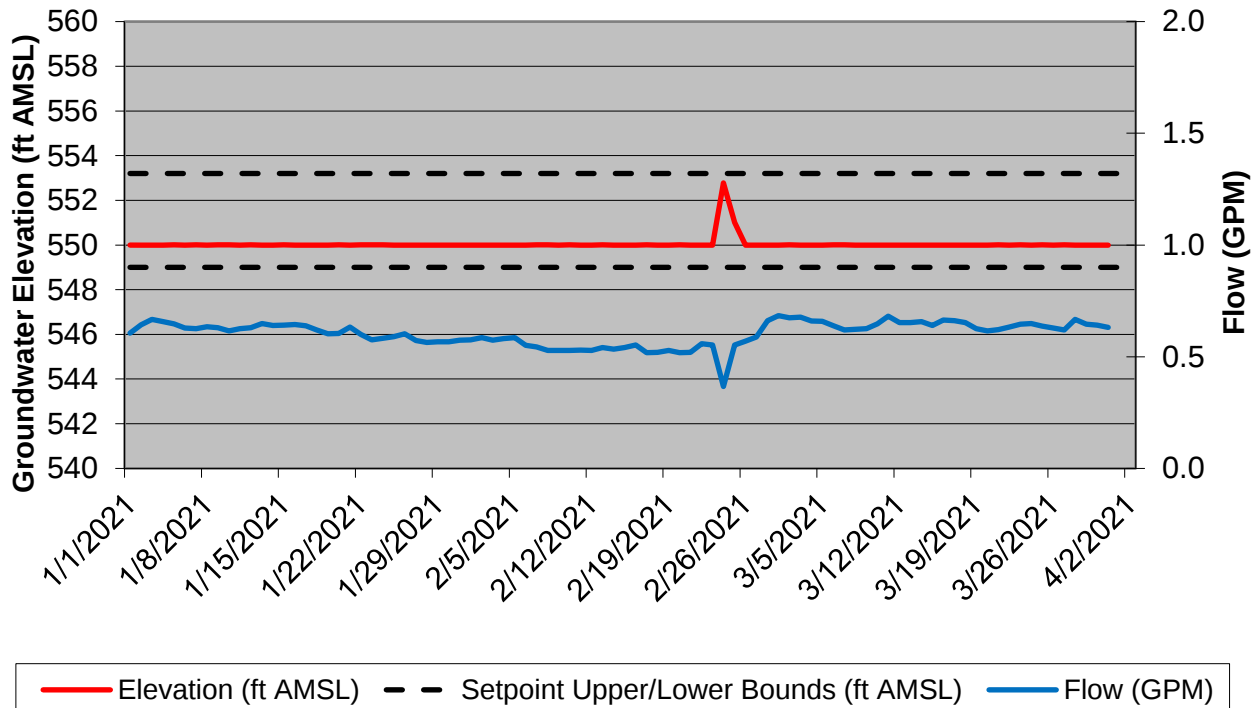


Well PW-8M

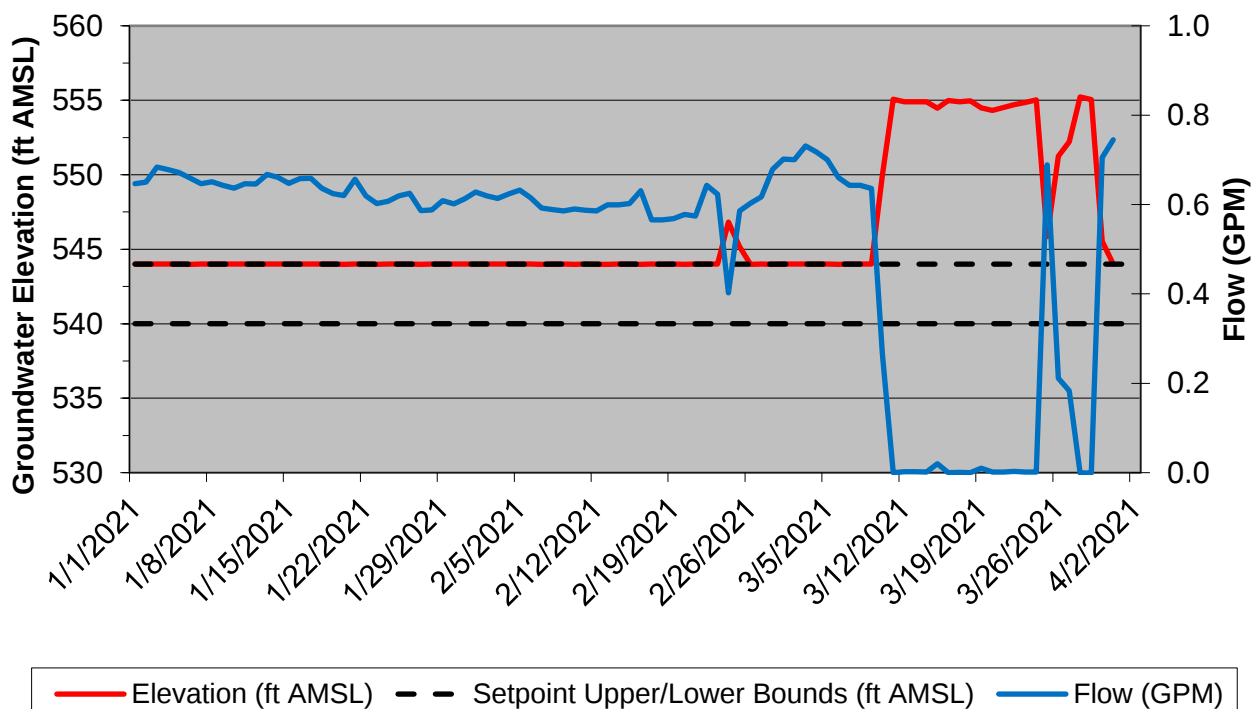


FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

Well PW-8U



Well PW-9U



FIRST QUARTER 2021 - PUMPING WELL PERFORMANCE GRAPHS  
HYDE PARK

