



Technical Memorandum

2020 Groundwater Monitoring Summary (Including Fourth Quarter 2020 Groundwater Sampling Event) National Aeronautics and Space Administration Jet Propulsion Laboratory, Pasadena, California

Final

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This technical memorandum summarizes the results of the fourth quarter 2020 groundwater sampling event completed as part of the groundwater monitoring program at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL). The fourth quarter 2020 groundwater sampling event was conducted from October 23 through November 6, 2020.

INTRODUCTION

During the fourth quarter 2020 sampling event, groundwater samples were collected from 19 of 25 JPL monitoring wells (MWs), both on- and off-facility and analyzed for volatile organic compounds (VOCs), total chromium, hexavalent chromium [Cr(VI)], and perchlorate. In select wells, chloride, nitrate, sulfate, nitrite, and orthophosphate were also analyzed. Figure 1 shows the locations of the groundwater monitoring wells.

Groundwater samples were shipped to BC Laboratories, Inc., in Bakersfield, California, for chemical analysis. BC Laboratories, Inc. is certified by the State Water Resources Control Board (SWRCB). Sample collection procedures and sample analyses were conducted in accordance with the approved *Work Plan for Performing a Remedial Investigation/Feasibility Study*¹. No reported data were rejected for non-compliance with method requirements during validation and no reported data were deemed unusable.

Table 1 summarizes analytical results for VOCs and perchlorate and Table 2 summarizes analytical results for metals from the last five sampling events. Table 3 summarizes VOC and perchlorate concentrations in production wells located near the JPL facility from the last five sampling events. No tentatively identified compounds (TICs) were detected in the samples collected during the fourth quarter of 2020.

Figures summarizing the results from the fourth quarter 2020 sampling event are included in this technical memorandum. Figure 2 shows the lateral extent of carbon tetrachloride concentrations in groundwater, and Figure 3 provides a cross section detailing the horizontal and vertical extent of carbon tetrachloride. Figure 4 shows the lateral extent of perchlorate concentrations in groundwater, and Figure 5 provides a cross section detailing the horizontal and vertical extent of perchlorate in groundwater. Figure 6 shows the lateral extent of tetrachloroethene (PCE) concentrations in groundwater. Figure 7 shows the lateral extent of trichloroethene (TCE) concentrations in groundwater. Figure 8 shows groundwater elevation contours from the fourth quarter 2020 event and groundwater flow directions.

Attachment 1 summarizes the field and laboratory quality assurance (QA), data verification and data validation procedures utilized for the JPL groundwater monitoring program. Attachment 2 contains the data validation reports performed by an independent subcontractor, Laboratory Data Consultants, Inc. (LDC). Attachment 3 contains the laboratory analytical reports prepared by BC Laboratories, Inc.

¹ Ebasco. 1993. *Work Plan for Performing a Remedial Investigation/Feasibility Study*, National Aeronautics and Space Administration Jet Propulsion Laboratory, Pasadena, California. December.

Attachment 4 contains the groundwater sample collection field logs for the JPL groundwater monitoring wells. Attachment 5 contains water level field measurement log sheets. Attachment 6 presents time series plots for select wells and analytes. Attachment 7 presents historical perchlorate, VOC, and metals concentrations from 1996 to present. A summary of the well construction details for the JPL groundwater monitoring wells is included in Attachment 8.

The groundwater monitoring wells have been grouped into four categories:

- On-facility source area wells (MW-7, MW-13, MW-16, and MW-24);
- Other on-facility wells (MW-6, MW-8, MW-11, MW-22, and MW-23);
- Perimeter off-facility wells (MW-1, MW-3, MW-4, MW-5, MW-9, MW-10, MW-12, MW-14, and MW-15 [MW-1 and MW-9 are only sampled during the second and fourth quarter events]); and
- Off-facility wells (MW-17, MW-18, MW-19, MW-20, MW-21, MW-25, and MW-26).

MW-2 was decommissioned in July 2018. Well MW-2 had not been sampled during the groundwater monitoring program since it was replaced with well MW-14.

ON-FACILITY SOURCE AREA WELLS

On-facility source area wells consist of wells that have historically contained the highest concentration of site-related chemicals. This group of wells is located within the JPL facility (on-facility) and consists of monitoring wells MW-7, MW-13, MW-16, and MW-24. It should be noted that during the fourth quarter 2020, wells MW-7, MW-13, and MW-16 were dry and could not be sampled.

The source area treatment system has been operating since 2005 and addresses groundwater beneath the JPL facility, which has historically contained the highest concentrations of perchlorate and VOCs (i.e., the source area). Operation of the source area treatment system appears to have resulted in a significant reduction of chemicals of interest in wells MW-7, MW-16, and MW-24, which are located within the treatment zone. Additional details regarding chemical concentrations in the on-facility source area wells are presented below.

PERCHLORATE ANALYTICAL RESULTS

- During the fourth quarter 2020, perchlorate was detected above the state MCL (6.0 µg/L) in well MW-24 (Screen 1 [14.0 µg/L]).
- Perchlorate was detected below the state MCL (6.0 µg/L) in MW-24 (Screens 2 and 3 [5.7 µg/L, and 1.5] µg/L, respectively). 'J' qualifier indicates an estimated concentration. No other perchlorate detections occurred in the on-facility source area wells that were sampled (i.e., MW-24 [Screens 4 and 5]) during the fourth quarter 2020 with a reporting limit of 4.0 µg/L.
- Perchlorate concentrations increased from the third quarter 2020 to the fourth quarter 2020 in MW-24 (Screens 1 [5.6 µg/L to 14.0 µg/L] and 3 [non-detect to 1.5] µg/L).
- Perchlorate concentrations decreased from the third quarter 2020 to the fourth quarter 2020 in MW-24 (Screen 2 [5.8 µg/L to 5.7 µg/L]).
- During the fourth quarter 2020, the perchlorate concentration remained non-detect in MW-24 (Screens 4 and 5).

- During 2020, perchlorate concentrations ranged from non-detect to 49.0 µg/L in MW-7, 25.0 µg/L to 50.0 µg/L in MW-13, non-detect in MW-16, 2.2 µg/L to 14.0 µg/L in MW-24 (Screen 1), 4.8 µg/L to 5.8 µg/L in MW-24 (Screen 2), non-detect to 1.5 µg/L (Screen 3) and non-detect only in MW-24 (Screens 4 and 5).

VOC ANALYTICAL RESULTS

- During the fourth quarter 2020, carbon tetrachloride was not detected in the on-facility source area wells with a reporting limit of 0.5 µg/L.
- In 2020, carbon tetrachloride was not detected above the state MCL (0.5 µg/L) in any of the on-facility source area wells. Carbon tetrachloride was detected below the state MCL in MW-13 (first quarter [0.2 µg/L]), MW-16 (second quarter [0.4 µg/L]), and MW-24 (third quarter [Screen 2 (0.3 µg/L)]).
- During the fourth quarter 2020, TCE was not detected in the on-facility source area wells with a reporting limit of 0.5 µg/L.
- In 2020, TCE was not detected in any of the on-facility source area wells with a reporting limit of 0.5 µg/L.
- During the fourth quarter 2020, PCE was detected below the state MCL (5 µg/L) in MW-24 (Screens 2 and 3 [0.3 µg/L and 0.4 µg/L, respectively]). No other PCE detections occurred in the on-facility source area wells that were sampled.
- In 2020, PCE was not detected above the state MCL (5 µg/L) in any of the on-facility source area wells. PCE was detected below the state MCL during the second, third and fourth quarter in MW-24 (Screen 2 [0.3 µg/L, 0.4 µg/L, and 0.3 µg/L, respectively]) and during the fourth quarter in MW-24 (Screen 3 [0.4 µg/L]).

OTHER NOTABLE ANALYTICAL RESULTS

- During the fourth quarter 2020, Cr(VI)² was detected below the state MCL (50.0 µg/L) in MW-24 (Screens 1 and 5 [0.24 µg/L, and 2.60 µg/L, respectively]). All other Cr (VI) results were non-detect in the on-facility source area wells that were sampled for metals (MW-24 Screens 2, 3, and 4).
- In 2020, Cr(VI) was detected below the state MCL (50.0 µg/L) in MW-7 (first through third quarters [0.95 µg/L, 1.20 µg/L and 0.57 µg/L, respectively]), MW-13 (second quarter [2.60 µg/L]), and MW-24 (Screen 1 [second and fourth quarters (0.14 µg/L and 0.24 µg/L, respectively)], Screen 2 [first through third quarters (2.00 µg/L, 2.20 µg/L and 2.50 µg/L, respectively)], Screen 4 [third quarter (0.03 µg/L)] and Screen 5 [second and fourth quarters (2.30 µg/L and 2.60 µg/L)]).
- During the fourth quarter 2020, total chromium was not detected above both the state MCL (50.0 µg/L) and federal MCL (100.0 µg/L) in the on-facility source area wells. Total chromium was detected below the state MCL and federal MCL in MW-24 (Screens 1, 2 and 5 [0.7 µg/L, 2.0 µg/L and 1.8 µg/L, respectively]). All other total chromium results were non-detect in the on-facility source area wells that were sampled for metals (MW-24 Screens 3 and 4).

² On August 1, 2017, the State Water Resources Control Board (SWRCB) removed the previously adopted MCL for Cr(VI). See https://www.waterboards.ca.gov/press_room/press_releases/2017/pr080117_mcl_removal.pdf.

- In 2020, total chromium was detected above the state MCL (50.0 µg/L) and federal MCL (100.0 µg/L) in MW-7 (third quarter [190.0 µg/L]). Total chromium was detected below the state MCL in MW-7 (first and second quarters [17.0 µg/L and 37.0 µg/L, respectively]), MW-13 (second quarter [8.3 µg/L]) and MW-24 (Screen 1 [all quarters (0.9) µg/L, 1.1) µg/L, 3.3 µg/L and 0.7) µg/L, respectively]), Screen 2 [first, third and fourth quarters (2.2) µg/L, 2.7) µg/L and 2.0) µg/L, respectively]), Screen 4 [second quarter (0.9) µg/L) and Screen 5 [second and fourth quarters (3.1) µg/L and 1.8) µg/L, respectively])). Total chromium results in the on-facility source area wells will continue to be closely evaluated during subsequent sampling events.

OTHER ON-FACILITY WELLS

This well group consists of monitoring wells MW-6, MW-8, MW-11, MW-22, and MW-23. These wells are located on the JPL facility but outside the source area.

It should be noted that during the fourth quarter of 2020, MW-6 lacked sufficient water volume to purge or collect a sample.

PERCHLORATE ANALYTICAL RESULTS

- During the fourth quarter 2020, perchlorate was detected above the state MCL (6.0 µg/L) in well MW-22 (Screen 1 [100.0 µg/L]) and MW-23 (Screen 1 [14.0 µg/L]).
- During the fourth quarter 2020, perchlorate was detected below the state MCL (6.0 µg/L) in MW-8 (1.0) µg/L), MW-11 (Screen 3 [0.9) µg/L]), MW-22 (Screens 2 through 4 [2.9) µg/L, 3.7) µg/L, and 1.4) µg/L, respectively]), and MW-23 (Screens 2 through 4 [4.8 µg/L, 3.4) µg/L and 2.3) µg/L, respectively]).
- During the fourth quarter 2020, perchlorate was not detected in MW-11 (Screens 1, 2, 4 and 5), MW-22 (Screen 5) and MW-23 (Screen 5) with a reporting limit of 4.0 µg/L.
- Perchlorate concentrations increased from their respective last sampling event to the fourth quarter 2020 in MW-11 (Screen 3 [non-detect to 0.9) µg/L]), MW-22 (Screens 2 through 4 [2.7) µg/L to 2.9) µg/L, 2.7) µg/L to 3.7) µg/L, and non-detect to 1.4) µg/L, respectively]), and MW-23 (Screens 1 and 4 [3.0) µg/L to 14.0 µg/L, and 1.8) µg/L to 2.3) µg/L, respectively]).
- Perchlorate concentrations decreased from their last respective sampling event to the fourth quarter 2020 in MW-8 (1.7) µg/L to 1.0) µg/L), MW-22 (Screen 1 [320.0 µg/L to 100.0 µg/L]) and MW-23 (Screens 2 and 3 [5.2 µg/L to 4.8 µg/L and 3.5) µg/L to 3.4) µg/L, respectively]).
- Perchlorate concentrations remained non-detect in MW-11 (Screens 1, 2, 4 and 5), MW-22 (Screen 5) and MW-23 (Screen 5).
- During 2020, perchlorate concentrations were detected above the state MCL (6.0 µg/L) in MW-22 (Screen 1 [second through fourth quarters [160.0 µg/L, 320.0 µg/L and 100.0 µg/L, respectively]) and MW-23 (Screen 1 [first and fourth quarters (7.2 µg/L and 14.0 µg/L, respectively])).
- Perchlorate was detected in MW-22 (Screen 1) at concentrations above the MCL in the third quarter 1998 (6.4 µg/L) and first quarter 1999 (6.4 µg/L), all four quarters of 2011 (22.9 µg/L, 40.1 µg/L, 98.7 µg/L, and 85.2 µg/L, respectively) and second quarter 2012 (6.5 µg/L). From third quarter 2012 through first quarter 2019 perchlorate concentrations ranged from non-

detect to 5.6 µg/L. From second quarter 2019 to fourth quarter 2020, perchlorate has exceeded the MCL in six of seven quarters ranging from 64.0 µg/L to 320.0 µg/L. MW-22 is located within the capture zone of the Monk Hill Treatment System (MHTS). Concentrations of perchlorate in MW-22 (Screen 1) will continue to be monitored closely.

VOC ANALYTICAL RESULTS

- During the fourth quarter 2020, carbon tetrachloride was not detected in the other on-facility wells with a reporting limit of 0.5 µg/L.
- Carbon tetrachloride was not detected during 2020 in the other on-facility wells with a reporting limit of 0.5 µg/L.
- During the fourth quarter 2020, TCE was detected below the state and federal MCL (5.0 µg/L) in MW-11 (Screen 4 [0.6 µg/L]), MW-22 (Screen 1 [0.6 µg/L]), and MW-23 (Screens 1 and 2 [0.3] µg/L and 2.4 µg/L, respectively). No other TCE detections occurred in the remaining other on-facility wells.
- In 2020, TCE was detected below the state and federal MCL (5.0 µg/L) in MW-6 (first and second quarters [2.7 µg/L, and 2.1 µg/L, respectively]), MW-11 (Screen 4 [all quarters (0.2] µg/L, 0.3] µg/L, 0.3] µg/L and 0.6 µg/L, respectively))), MW-22 (Screens 1 [first and fourth quarters (0.6 µg/L, each)] and 2 [second quarter (0.3] µg/L)], and MW-23 (Screens 1 [first and fourth quarters (1.7 µg/L and 0.3] µg/L, respectively)] and 2 [all quarters (1.2 µg/L, 1.0 µg/L, 1.1 µg/L and 2.4 µg/L, respectively)]). No other TCE detections occurred in the remaining other on-facility wells.
- During the fourth quarter 2020, PCE was detected below the state and federal MCL (5.0 µg/L) in MW-22 (Screen 1 [0.3] µg/L) and MW-23 (Screen 2 [0.7 µg/L]). No other PCE detections occurred in the remaining other on-facility wells.
- In 2020, PCE was detected below the state and federal MCL (5.0 µg/L) in MW-6 (first and second quarters [0.5 µg/L and 0.4] µg/L, respectively]), MW-22 (Screen 1 [fourth quarter (0.3] µg/L)]) and MW-23 (Screen 2 [first, second and fourth quarters (0.4] µg/L, 0.2] µg/L and 0.7 µg/L, respectively])). No other PCE detections occurred in the remaining other on-facility wells.

OTHER NOTABLE ANALYTICAL RESULTS

- During the fourth quarter 2020, Cr(VI) was detected below the state MCL (50.0 µg/L) in MW-22 (Screens 1 through 4 [0.72 µg/L, 1.80 µg/L, 2.50 µg/L and 2.90 µg/L, respectively]), and MW-23 (Screens 1 through 4 [1.30 µg/L, 1.30] µg/L, 2.80 µg/L, and 3.60] µg/L, respectively)). Cr(VI) was not detected in MW-11 (Screens 1 through 5), MW-22 (Screen 5) and MW-23 (Screen 5) during the fourth quarter 2020.
- In 2020, detections of Cr(VI) in the other on-facility wells were relatively consistent (low detections or non-detect) and all remained below the state MCL of 50.0 µg/L.
- During the fourth quarter 2020, total chromium was detected below the state MCL (50.0 µg/L) in MW-11 (Screens 3 and 5 [0.6] µg/L and 1.4] µg/L, respectively]), MW-22 (Screens 2 through 4 [1.2] µg/L, 1.4] µg/L and 2.0] µg/L, respectively]), and MW-23 (Screens 1 through 5 [1.3] µg/L, 1.5] µg/L, 2.7] µg/L, 3.1 µg/L and 2.3] µg/L, respectively)). No other total chromium

detections occurred in the remaining other on-facility wells that were sampled during the fourth quarter 2020.

- In 2020, detections of total chromium in the other on-facility wells were relatively consistent (low detections or non-detect) and all remained below the state MCL of 50.0 µg/L.
- Total chromium in well MW-6 has been detected at or above the state MCL of 50.0 µg/L nineteen times (third quarter 1996 [50.0 µg/L], third quarter 1999 [310.0 µg/L], second quarter 2000 [82.0 µg/L], third quarter 2000 [51.0 µg/L], second quarter 2012 [83.0 µg/L], second quarter 2014 [190.0 µg/L], fourth quarter 2014 [270.0 µg/L], first quarter 2015 [78.0 µg/L], second quarter 2015 [820.0 µg/L], third quarter 2015 [250.0] µg/L, fourth quarter 2015 [65.0 µg/L], first quarter 2016 [73.0 µg/L], second quarter 2016 [60.0 µg/L], third quarter 2016 [53.0 µg/L], second quarter 2017 [80.0 µg/L], third quarter 2017 [120.0 µg/L], fourth quarter 2017 [1,100.0 µg/L], first quarter 2018 [90.0 µg/L], and third quarter 2018 [52.0 µg/L]) since it was first monitored for total chromium in 1996. Total chromium results in the other on-facility wells will continue to be closely evaluated during subsequent sampling events.

PERIMETER OFF-FACILITY WELLS

The perimeter off-facility wells are located near the JPL fence line along the perimeter of the property. This group of wells consists of MW-1, MW-3, MW-4, MW-5, MW-9, MW-10, MW-12, MW-14, and MW-15.

It should be noted that during the fourth quarter 2020, a grab sample was collected in MW-10 due to insufficient water volume available to purge. In addition, MW-5, MW-12 (Screen 1), and MW-14 (Screen 1) were dry, and no samples were collected from these wells.

PERCHLORATE ANALYTICAL RESULTS

- During the fourth quarter 2020, perchlorate was detected above the state MCL (6.0 µg/L) in well MW-4 (Screen 2 [38.0 µg/L]).
- Perchlorate was detected below the state MCL (6.0 µg/L) in MW-3 (Screens 3, 4 and 5 [1.4] µg/L, 5.1 µg/L and 5.0 µg/L, respectively), MW-4 (Screens 3 and 4 [2.5] µg/L and 2.1] µg/L, respectively), MW-10 (1.2] µg/L), MW-12 (Screens 2 through 5 [1.7] µg/L, 4.0 µg/L, 2.5] µg/L, and 1.5] µg/L, respectively), and MW-14 (Screens 2 through 4 [3.8] µg/L, 4.7 µg/L, and 4.7 µg/L, respectively)).
- During the fourth quarter 2020, perchlorate was not detected in MW-1, MW-3 (Screens 1 and 2), MW-4 (Screens 1 and 5), MW-9, MW-14 (Screen 5) and MW-15 with a reporting limit of 4.0 µg/L.
- Perchlorate concentrations increased from their respective last sampling event to the fourth quarter 2020 in MW-3 (Screens 4 [1.8] µg/L to 5.1 µg/L, and 5 [2.6] µg/L to 5.0 µg/L), MW-4 (Screens 3 [1.5] µg/L to 2.5] µg/L, and 4 [2.0] µg/L to 2.1] µg/L), MW-10 (non-detect to 1.2] µg/L), and MW-14 (Screen 4 [4.2 µg/L to 4.7 µg/L]).
- Perchlorate concentrations decreased from their respective last sampling event to the fourth quarter 2020 in MW-3 (Screen 3 [2.0] µg/L to 1.4] µg/L), MW-4 (Screens 2 [46.0 µg/L to 38.0 µg/L], and 5 [1.9] µg/L to non-detect), MW-12 (Screens 3 [4.9 µg/L to 4.0 µg/L], 4 [3.3] µg/L to 2.5] µg/L, and 5 [1.6] µg/L to 1.5] µg/L) and MW-14 (Screens 2 [4.4 µg/L to 3.8] µg/L), and 3 [5.1 µg/L to 4.7 µg/L]).

- Perchlorate concentrations remained unchanged from the third quarter 2020 to fourth quarter 2020 sampling event in MW-12 (Screen 2 [1.7] µg/L).
- Perchlorate concentrations remained non-detect from their last respective sampling event to the fourth quarter 2020 in MW-1, MW-3 (Screens 1 and 2), MW-4 (Screen 1), MW-9, MW-14 (Screen 5), and MW-15.
- The perchlorate concentration of 38.0 µg/L in MW-4 (Screen 2) during the fourth quarter 2020 continues to be down from the high detection of 250.0 µg/L (third quarter 2013). Since the first quarter 2011, concentrations have exceeded the state MCL (6.0 µg/L) (ranging from 6.5 µg/L to 250.0 µg/L) with thirteen exceptions: first, third, and fourth quarters of 2015, all four quarters of 2016 and 2017, and first and third quarters of 2018. Perchlorate concentrations in MW-4 (Screen 2) increased from fourth quarter 2018 (9.9 µg/L) to first quarter 2020 (51.0 µg/L) and have remained relatively stable between first and fourth quarters 2020 ranging from 51.0 µg/L (first quarter 2020) to 38.0 µg/L (fourth quarter 2020). Perchlorate concentrations will continue to be closely monitored since MW-4 is within the capture zone of the MHTS.
- Perchlorate concentrations in MW-3 (Screens 3 through 5), MW-4 (Screens 3 through 5), MW-10, MW-12, and MW-14 (Screens 2 through 4) remained below the state MCL (6.0 µg/L) for all quarters sampled during 2020.

VOC ANALYTICAL RESULTS

- During the fourth quarter 2020, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-12 (Screen 3 [0.8 µg/L]) and below the state MCL (0.5 µg/L) in MW-12 (Screens 4 and 5 [0.3] µg/L and 0.4] µg/L, respectively)). No other carbon tetrachloride detections occurred in the perimeter off-facility wells during the fourth quarter 2020.
- In 2020, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-12 (Screen 3 [all quarters (1.1 µg/L, 1.4 µg/L, 0.9 µg/L and 0.8 µg/L, respectively)]) and below the state MCL (0.5 µg/L) in MW-12 (Screens 4 [all quarters (0.5] µg/L, 0.4] µg/L, 0.4] µg/L, and 0.3] µg/L, respectively)], and 5 [all quarters (0.4] µg/L, 0.2] µg/L, 0.3] µg/L, and 0.4] µg/L, respectively)]).
- During the fourth quarter 2020, TCE was detected below the state and federal MCL (5.0 µg/L) in MW-4 (Screen 2 [0.2] µg/L) and MW-14 (Screens 2 through 4 [1.2 µg/L, 0.8 µg/L and 0.5] µg/L, respectively)). No other TCE detections occurred in the perimeter off-facility wells during the fourth quarter 2020.
- In 2020, TCE was not detected above the state and federal MCL (5.0 µg/L) in the perimeter off-facility wells. Detections of TCE in the perimeter off-facility wells remained relatively consistent ranging from non-detect to 1.9 µg/L.
- During the fourth quarter 2020, PCE was detected below the state and federal MCL (5.0 µg/L) in MW-14 (Screens 2, 3 and 4 [0.3] µg/L, 0.5 µg/L and 0.4] µg/L, respectively)). No other PCE detections occurred in the perimeter off-facility wells during the fourth quarter 2020.
- In 2020, PCE was not detected above the state and federal MCL (5.0 µg/L) in the perimeter off-facility wells. Detections of PCE in the perimeter off-facility wells remained relatively consistent ranging from non-detect to 1.1 µg/L.

OTHER NOTABLE ANALYTICAL RESULTS

- During the fourth quarter 2020, Cr(VI) was detected below the state MCL (50.0 µg/L) in MW-3 (Screens 2 through 5 [0.62 µg/L, 0.73 µg/L, 0.85 µg/L, and 0.73 µg/L, respectively]), MW-4 (Screen 2 [0.91 µg/L]), MW-12 (Screens 3 through 5 [0.40 µg/L, 0.71 µg/L, and 1.50 µg/L, respectively]) and MW-14 (Screens 2 and 4 [0.64] µg/L, and 2.60 µg/L, respectively)]. No other Cr(VI) detections occurred in the perimeter off-facility wells during the fourth quarter 2020.
- In 2020, detections of Cr(VI) in the perimeter off-facility wells were relatively consistent, ranging from non-detect to 2.60 µg/L and remained below the state MCL (50.0 µg/L).
- During the fourth quarter 2020, total chromium was detected above the state MCL (50.0 µg/L) and federal MCL (100.0 µg/L) in MW-9 (240.0 µg/L) and below the state MCL (50.0 µg/L) in MW-3 (Screens 3 through 5 [1.1] µg/L, 21.0 µg/L and 20.0 µg/L, respectively]), MW-4 (Screens 2 through 4 [1.6] µg/L, 2.1] µg/L, and 0.8] µg/L, respectively]), MW-12 (Screens 2 through 5 [1.2] µg/L, 1.2] µg/L, 0.8] µg/L and 1.7] µg/L, respectively]), MW-14 (Screens 2 and 4 [0.6] µg/L, and 2.5] µg/L, respectively]), and MW-15 (21.0 µg/L). No other total chromium detections occurred in the perimeter off-facility wells during the fourth quarter 2020.
- In 2020, total chromium remained relatively consistent in the perimeter off-facility wells below the state MCL (50.0 µg/L) and federal MCL (100.0 µg/L) ranging from non-detect to 44.0 µg/L with three exceptions: first quarter MW-3 (Screen 4 [64.0 µg/L]), second quarter MW-3 (Screen 5 [140.0 µg/L]) and fourth quarter MW-9 (240.0 µg/L)].
- Total chromium has been detected in MW-3 (Screen 4) three times at concentrations above the state MCL (50.0 µg/L) since the third quarter 1996. First quarter 2015 (75.1 µg/L), fourth quarter 2019 (95.0 µg/L), and first quarter 2020 (64.0 µg/L).
- The total chromium detection of 140.0 µg/L in MW-3 (Screen 5) is the only detection at concentrations above the state MCL (50.0 µg/L) and federal MCL (100.0 µg/L) since the third quarter 1996.
- Since third quarter 1996, total chromium has been detected in MW-9 at a concentration above the state MCL (50.0 µg/L) on one occasion: fourth quarter 2019 (80.0] µg/L) and at or above the federal MCL (100.0 µg/L) on four occasions: fourth quarter 2015 (110.0 µg/L), fourth quarter 2016 (100.0 µg/L), fourth quarter 2018 (130.0 µg/L), and fourth quarter 2020 (240.0 µg/L).

OFF-FACILITY WELLS

The off-facility wells consist of monitoring wells MW-17, MW-18, MW-19, MW-20, MW-21, MW-25, and MW-26. These wells are located near and down gradient of the two off-facility treatment plants: MHTS and Lincoln Avenue Water Company (LAWC) treatment system. Daily operation of the MHTS began in February 2011. Operation of the LAWC perchlorate treatment system began in July 2004.

It should be noted that during fourth quarter 2020, the uppermost screens (i.e., Screen 1) in MW-17, MW-18, MW-20, and MW-21 were dry, and no samples were collected from these screens.

PERCHLORATE ANALYTICAL RESULTS

- During the fourth quarter 2020 sampling event, concentrations of perchlorate above the state MCL (6.0 µg/L) were reported in samples collected from wells MW-18 (Screen 4 [16.0 µg/L]),

MW-20 (Screen 2 [9.8 µg/L]), and MW-25 (Screens 1 through 4 [6.8 µg/L, 12.0 µg/L, 9.8 µg/L, and 8.5 µg/L, respectively]).

- During the fourth quarter 2020 sampling event, concentrations of perchlorate below the state MCL (6.0 µg/L) were reported in samples collected from wells MW-17 (Screens 3 through 5 [3.9] µg/L, 5.4 µg/L, and 5.2 µg/L, respectively]), MW-18 (Screen 3 [1.2] µg/L]), MW-19 (Screens 2 through 5 [3.1] µg/L, 3.8] µg/L, 3.2] µg/L, and 3.0] µg/L, respectively]), MW-21 (Screens 2 through 5 [1.7] µg/L, 2.8] µg/L, 2.8] µg/L, and 2.4] µg/L, respectively]), and MW-26 (Screens 1 and 2 [2.2] µg/L and 3.1] µg/L, respectively]).
- During the fourth quarter 2020, concentrations of perchlorate were not detected in MW-17 (Screen 2), MW-18 (Screens 2 and 5), MW-19 (Screen 1), MW-20 (Screens 3 through 5), and MW-25 (Screen 5) with a reporting limit of 4.0 µg/L.
- Perchlorate concentrations increased from their respective last sampling event to the fourth quarter 2020 in MW-17 (Screens 3 through 5 [3.5] µg/L to 3.9] µg/L, 5.1 µg/L to 5.4 µg/L, and 4.3 µg/L to 5.2 µg/L, respectively]), MW-19 (Screens 2 through 5 [2.8] µg/L to 3.1] µg/L, 2.9] µg/L to 3.8] µg/L, 2.5] µg/L to 3.2] µg/L, and 2.9] µg/L to 3.0] µg/L, respectively]), MW-20 (Screen 2 [1.6] µg/L to 9.8 µg/L]), MW-21 (Screens 2 and 3 [1.1] µg/L to 1.7] µg/L, and 2.5] µg/L to 2.8] µg/L, respectively]), MW-25 (Screens 3 and 4 [8.4 µg/L to 9.8 µg/L, and 8.4 µg/L to 8.5 µg/L, respectively]), and MW-26 (Screen 2 [3.0] µg/L to 3.1] µg/L]).
- Perchlorate concentrations decreased from their respective last sampling event to the fourth quarter 2020 in MW-18 (Screen 3 [1.8] µg/L to 1.2] µg/L]), MW-21 (Screens 4 and 5 [3.1] µg/L to 2.8] µg/L, and 2.5] µg/L to 2.4] µg/L, respectively]), and MW-26 (Screen 1 [2.7] µg/L to 2.2] µg/L]).
- Perchlorate concentrations remained unchanged from the third to fourth quarter 2020 in MW-18 (Screen 4 [16.0 µg/L]) and MW 25 (Screens 1 and 2 [6.8 µg/L, and 12.0 µg/L, respectively]).
- Perchlorate concentrations remained non-detect from their respective last sampling event to the fourth quarter 2020 in MW-17 (Screen 2), MW-18 (Screens 2 and 5), MW-19 (Screen 1), MW-20 (Screens 3, 4, and 5), and MW-25 (Screen 5).
- Perchlorate concentrations in MW-17 (Screen 3) have remained relatively stable since 2011 with concentrations ranging from non-detect to 8.5 µg/L. MW-17 is located within the capture zone of the LAWC treatment system.
- The perchlorate concentration of 5.4 µg/L in MW-17 (Screen 4) is the twenty-fourth detection below the state MCL (6.0 µg/L) since the first quarter 2015. From the third quarter 2002 to the fourth quarter 2012, the perchlorate concentrations in MW-17 (Screen 4) had been either non-detect or below the state MCL (6.0 µg/L) with only one detection that exceeded the state MCL (second quarter 2003 [6.5 µg/L]). From the first quarter 2013 through the fourth quarter 2014, the perchlorate concentrations in MW-17 (Screen 4) exceeded the state MCL in seven of the eight quarters with exceedances ranging from 6.8 µg/L to 18.0 µg/L. From the first quarter 2015 to the fourth quarter 2020 sampling events, perchlorate in MW-17 (Screen 4) remained below the state MCL (6.0 µg/L) with concentrations ranging from non-detect (first quarter 2017) to 5.4 µg/L (fourth quarter 2020). The changes in perchlorate concentrations at MW-17 (Screen 4) are believed to be associated with changes in groundwater flow associated with operation of NASA's mid-plume treatment system, which began operation in 2011.
- The perchlorate concentration of 1.2] µg/L in MW-18 (Screen 3) is the fourteenth consecutive detection below the state MCL (6.0 µg/L) since third quarter 2017. From the fourth quarter 2005 to second quarter 2017 perchlorate concentrations in MW-18 (Screen 3) were above the

state MCL (6.0 µg/L) ranging from 6.2 µg/L (second quarter 2017) to 144.0 µg/L (third quarter 2011) with one exception (non-detect [second quarter 2007]).

- The fourth quarter 2020 perchlorate concentration of 9.8 µg/L in MW-20 (Screen 2) is the third detection that exceeded the state MCL (6.0 µg/L) since it was first sampled and analyzed for perchlorate beginning in the second quarter 1997. The two previous occasions were second quarter 2012 (6.4 µg/L) and first quarter 2015 (7.0 µg/L). During the period from second quarter 1997 through third quarter 2007 (forty sampling events) perchlorate was not detected. Perchlorate was first detected in MW-20 (Screen 2) during the fourth quarter 2007 with a concentration of 3.7 µg/L. From fourth quarter 2007 through fourth quarter 2020 (excluding second quarter 2012 [6.4 µg/L] and first quarter 2015 [7.0 µg/L]), perchlorate was detected during forty-three of fifty-two sampling events with concentrations ranging from 0.9 µg/L to 5.2 µg/L. During the ten sampling events preceding the fourth quarter 2020, perchlorate concentrations ranged from 0.9 µg/L to 2.2 µg/L.
- During the period from the third quarter 2008 through first quarter 2012, perchlorate was detected in MW-20 (Screen 4) at concentrations exceeding the state MCL (6.0 µg/L) during seven of fifteen sampling events. Concentrations exceeding the state MCL ranged from 15.1 µg/L to 123.0 µg/L. Perchlorate was not detected during the remaining eight sampling events between third quarter 2008 and first quarter 2012. Perchlorate has not been detected in MW-20 (Screen 4) since the first quarter 2012 (35 sampling events).
- During the period from third quarter 2008 through first quarter 2012, perchlorate was detected in MW-20 (Screen 5) at concentrations exceeding the state MCL (6.0 µg/L) during seven of sixteen sampling events. During this time, perchlorate concentrations exceeding the state MCL ranged from 11.5 µg/L to 56.5 µg/L. Perchlorate was not detected during the remaining nine sampling events during this period with one exception (4.2 µg/L [second quarter 2011]). From the second quarter 2012 to fourth quarter 2020 (35 sampling events) perchlorate concentrations have remained non-detect in MW-20 (Screen 5).
- The perchlorate concentrations in MW-25 (Screens 1 through 4) have remained relatively stable above the state MCL (6.0 µg/L) ranging from 6.0 µg/L (Screen 1 [fourth quarter 2012 and first quarter 2018]) to 18.0 µg/L (Screen 2 fourth quarter 2007) with one exception 5.6 µg/L (Screen 4 [fourth quarter 2012]) below the state MCL (6.0 µg/L).
- In 2020, perchlorate concentrations in the off-facility wells ranged from non-detect to 16.0 µg/L.

VOC ANALYTICAL RESULTS

- During the fourth quarter 2020, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-18 (Screen 4 [4.5 µg/L]) and below the state MCL (0.5 µg/L) in MW-17 (Screen 4 [0.2 µg/L]). No other carbon tetrachloride detections occurred in the remaining off-facility wells during the fourth quarter 2020.
- In 2020, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-18 (Screen 4 [all quarters [4.7 µg/L, 1.1 µg/L, 4.6 µg/L and 4.5 µg/L, respectively]]). In 2020, carbon tetrachloride was detected below the state MCL (0.5 µg/L) in MW-17 (Screen 4 [fourth quarter (0.2 µg/L)]) and MW-18 (Screen 3 [first quarter (0.4 µg/L)]). No other carbon tetrachloride detections occurred in the remaining off-facility wells during 2020.

- The carbon tetrachloride non-detect result in MW-18 (Screen 3), during the fourth quarter 2020, is the fourth non-detect result since fourth quarter 2004. Prior to third quarter 2018, the carbon tetrachloride concentrations in MW-18 (Screen 3) had exceeded the state MCL (0.5 µg/L) since the first quarter 2005 with concentrations ranging from 0.5 µg/L to 43.0 µg/L. Since third quarter 2018, carbon tetrachloride in MW-18 (Screen 3) has ranged from non-detect to 0.4 µg/L.
- Carbon tetrachloride detections in MW-18 (Screen 4) have exceeded the state MCL since the third quarter 1996 with one exception (non-detect [fourth quarter 2010]).
- During the fourth quarter 2020, TCE was detected below the state and federal MCL (5.0 µg/L) in MW-17 (Screens 3 through 5 [4.1 µg/L, 1.9 µg/L and 0.6 µg/L, respectively]), MW-18 (Screen 4 [2.3 µg/L]), MW-19 (Screens 2 through 4 [0.5 µg/L, 0.4 µg/L and 0.2 µg/L, respectively]), MW-20 (Screen 2 [0.2 µg/L]), MW-21 (Screens 2 through 4 [0.2 µg/L, 2.0 µg/L, and 0.6 µg/L, respectively]), MW-25 (Screens 1 and 2 [1.7 µg/L and 0.3 µg/L, respectively]), and MW-26 (Screen 2 [0.4 µg/L]). No other TCE detections occurred in the remaining off-facility wells during the fourth quarter 2020.
- In 2020, TCE concentrations in MW-17 (Screens 3 through 5) ranged from 0.5 µg/L to 5.2 µg/L (only detection above the state and federal MCL (5.0 µg/L)); TCE concentrations in MW-18 (Screen 4) ranged from 0.7 µg/L to 2.3 µg/L; TCE concentrations in MW-19 (Screens 2 through 4) ranged from non-detect to 1.0 µg/L; TCE concentrations in MW-20 (Screen 2) ranged from 0.2 µg/L to 0.9 µg/L; TCE concentrations in MW-21 (Screens 2 through 5) ranged from non-detect to 2.0 µg/L; TCE concentrations in MW-25 (Screens 1 and 2) ranged from non-detect to 1.7 µg/L; and TCE concentrations in MW-26 (Screen 2) ranged from non-detect to 0.4 µg/L. TCE was not detected in MW-17 (Screens 1 and 2), MW-18 (Screens 1, 2, 3 and 5), MW-19 (Screens 1 and 5), MW-20 (Screens 3 through 5), MW-25 (Screens 3 through 5), and MW-26 (Screen 1) during the four quarters of 2020.
- During the fourth quarter 2020, PCE was detected in MW-17 (Screens 3 through 5 [0.8 µg/L, 1.0 µg/L, and 0.3 µg/L, respectively]), MW-18 (Screen 4 [1.7 µg/L]), MW-19 (Screens 2 through 5 [0.9 µg/L, 0.9 µg/L, 0.5 µg/L, and 0.4 µg/L, respectively]), MW-20 (Screen 3 [0.4 µg/L]), MW-21 (Screens 2 through 5 [1.0 µg/L, 2.1 µg/L, 1.2 µg/L, and 0.6 µg/L, respectively]), MW-25 (Screens 2 and 3 [0.5 µg/L, and 0.6 µg/L, respectively]), and MW-26 (Screens 1 and 2 [0.2 µg/L and 2.9 µg/L, respectively]); however, no detections exceeded the state and federal MCL (5.0 µg/L). PCE was not detected in the remaining off-facility wells during the fourth quarter 2020.
- In 2020, PCE concentrations in MW-17 (Screens 3 through 5) ranged from 0.2 µg/L to 1.0 µg/L; PCE concentrations in MW-18 (Screen 4) ranged from 0.5 µg/L to 1.9 µg/L; PCE concentrations in MW-19 (Screens 2 through 5) ranged from 0.3 µg/L to 2.7 µg/L; PCE concentrations in MW-20 (Screens 2 and 3) ranged from non-detect to 0.9 µg/L; PCE concentrations in MW-21 (Screens 2 through 5) ranged from 0.4 µg/L to 2.6 µg/L; PCE concentrations in MW-25 (Screens 2 and 3) ranged from non-detect to 0.7 µg/L; and PCE concentrations in MW-26 (Screens 1 and 2) ranged from 0.2 µg/L to 2.9 µg/L. PCE was not detected in MW-17 (Screens 1 and 2), MW-18 (Screens 1, 2, 3 and 5), MW-19 (Screen 1), MW-20 (Screens 4 and 5) and MW-25 (Screens 1, 4, and 5) during the four quarters of 2020.

OTHER NOTABLE ANALYTICAL RESULTS

- During the fourth quarter 2020, Cr(VI) was detected below the state MCL (50.0 µg/L) in MW-17 (Screens 4 and 5 [1.90 µg/L, each]), MW-18 (Screens 3 and 4 [1.80 µg/L, and 2.90 µg/L, respectively]), MW-19 (Screens 2 through 5 [0.43] µg/L, 2.20 µg/L, 2.60 µg/L, and 2.40 µg/L, respectively]), MW-21 (Screens 3 through 5 [0.57 µg/L, 1.60 µg/L, and 1.40 µg/L, respectively]), MW-25 (Screens 1 through 4 [0.66 µg/L, 1.80 µg/L, 3.00] µg/L, and 0.72] µg/L, respectively]), and MW-26 (Screens 1 and 2 [0.46] µg/L and 0.69 µg/L]). Cr(VI) was not detected in the remaining off-facility wells.
- In 2020, detections of Cr(VI) in the off-facility wells ranged from non-detect to 3.70 µg/L.
- During the fourth quarter 2020, total chromium was detected below the state MCL (50.0 µg/L) in MW-17 (Screens 2 through 5 [0.7] µg/L, 1.1] µg/L, 1.9] µg/L, and 3.1 µg/L, respectively]), MW-18 (Screens 2 through 5 [0.6] µg/L, 1.7] µg/L, 3.0 µg/L, and 0.7] µg/L, respectively]), MW-19 (Screens 2 through 5 [3.2 µg/L, 2.7] µg/L, 2.6] µg/L, and 2.3] µg/L, respectively]), MW-20 (Screen 2 [1.6] µg/L]), MW-21 (Screens 2, 4 and 5 [0.5] µg/L, 1.4] µg/L, and 1.0] µg/L, respectively]) MW-25 (Screens 1 through 5 [2.4] µg/L, 2.6] µg/L, 3.2 µg/L, 1.4] µg/L, and 0.6] µg/L, respectively]), and MW-26 (Screens 1 and 2 [0.5] µg/L and 2.4] µg/L, respectively]). Total chromium was not detected in the remaining off-facility wells.
- In 2020, total chromium remained below the state MCL (50.0 µg/L) in the off-facility wells, ranging from non-detect to 7.6 µg/L.

ALL WELL CATEGORIES (OTHER RESULTS)

- Comparing the third quarter 2020 to the fourth quarter 2020, groundwater elevations decreased by an average of 10.23 feet.
- Monitoring wells MW-8 and MW-10 could not be purged with the dedicated submersible pumps due to the low water table. Grab samples were collected from these wells with disposable bailers.
- The shallow standpipe wells MW-5, MW-6, MW-7, MW-13, and MW-16 were dry and could not be sampled during the fourth quarter 2020. This is the second consecutive quarter in which MW-6, MW-13 and MW-16 were dry.
- The uppermost sampling port (i.e., Screen 1) in multi-port monitoring wells MW-12, MW-14, MW-17, MW-18, MW-20, and MW-21 were dry and could not be sampled during the fourth quarter 2020. This is the second consecutive quarter in which the uppermost screen in MW-12 and MW-18 was dry. This is the fifth consecutive quarter in which the uppermost screen in which the uppermost screens in MW-14, MW-20, and MW-21 were dry.
- Groundwater elevations recorded in the JPL monitoring wells showed a steady decline from the first and second quarters of 2011 through the fourth quarter of 2014 at which time the levels approached and/or exceeded historic lows last recorded in 1996 and 1997. During the period between first quarter 2015 and fourth quarter 2020, groundwater elevations have fluctuated on a seasonal basis. As of fourth quarter 2020, groundwater levels remain approximately 80 feet below the second quarter 2011 elevations. Groundwater elevations will continue to be closely monitored.

- Groundwater level measurements collected during the fourth quarter 2020 indicate that groundwater gradients and flow directions are generally consistent with previous observations (see Figure 8).

ATTACHMENTS

Attachments to this technical memorandum include the following:

- Attachment 1: Quality Assurance/Quality Control Summary
 - Attachment 2: Data Validation Reports
 - Attachment 3: Laboratory Analytical Reports
 - Attachment 4: Field Logs
 - Attachment 5: Water Level Measurements
 - Attachment 6: Time-Series Concentration Plots
 - Attachment 7: Tables 1A, 2A and 3A (Historical Perchlorate, VOCs, and Metals from 1996 to present)
 - Attachment 8: Summary of Construction Details for All JPL Groundwater Monitoring Wells
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TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED DURING THE
LAST FIVE SAMPLING EVENTS OF THE LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM

(All concentrations reported in µg/L.)

(Shaded values exceed State or Federal MCL or action levels.)

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP
MW-1												
MW-1	Oct 2019	MW-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-1	Jun 2020	MW-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-1	Jun 2020	Dup-8-2Q2020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-1	Oct/Nov 2020	MW-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-1	Oct/Nov 2020	DUP-6-4Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-1												
MW-3-Screen-1	Oct 2019	MW-3-1	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-1	Jun 2020	MW-3-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-1	Oct/Nov 2020	MW-3-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-2												
MW-3-Screen-2	Oct 2019	MW-3-2	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-2	Feb 2020	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-2	Jun 2020	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-2	Aug 2020	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-2	Oct/Nov 2020	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-3-Screen-3												
MW-3-Screen-3	Oct 2019	MW-3-3	0.5 UJ	0.5 U	0.4 J	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J	
MW-3-Screen-3	Feb 2020	MW-3-3	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J	
MW-4-Screen-3	Feb 2020	DUP-7-1Q20	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1 J	
MW-3-Screen-3	Jun 2020	MW-3-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 J	
MW-3-Screen-3	Aug 2020	MW-3-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 J	
MW-3-Screen-3	Oct/Nov 2020	MW-3-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J	
MW-3-Screen-4												
MW-3-Screen-4	Oct 2019	MW-3-4	0.5 UJ	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	1.0 J	
MW-3-Screen-4	Feb 2020	MW-3-4	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J	
MW-3-Screen-4	Feb 2020	DUP-2-1Q20	0.5 U	0.5 U	0.2 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1.2 J	
MW-3-Screen-4	Jun 2020	MW-3-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.0 J	
MW-3-Screen-4	Aug 2020	MW-3-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8 J	
MW-3-Screen-4	Oct/Nov 2020	MW-3-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.1	
MW-3-Screen-5												
MW-3-Screen-5	Oct 2019	MW-3-5	0.5 UJ	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J	

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-3-Screen-5	Jun 2020	MW-3-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6 J		
MW-3-Screen-5	Oct/Nov 2020	MW-3-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0		
MW-4-Screen-1													
MW-4-Screen-1	Oct 2019	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Feb 2020	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Jun 2020	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Aug 2020	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Oct/Nov 2020	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-2													
MW-4-Screen-2	Oct 2019	MW-4-2	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	32.0	
MW-4-Screen-2	Feb 2020	MW-4-2	0.5 U	1.2	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	51.0	
MW-4-Screen-2	Jun 2020	MW-4-2	0.5 U	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	50.0	
MW-4-Screen-2	Aug 2020	MW-4-2	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	46.0	
MW-4-Screen-2	Oct/Nov 2020	MW-4-2	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	38.0	
MW-4-Screen-3													
MW-4-Screen-3	Oct 2019	MW-4-3	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-4-Screen-3	Feb 2020	MW-4-3	0.5 U	0.5 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.8 J	
MW-4-Screen-3	Feb 2020	DUP-7-1Q20	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1 J	
MW-4-Screen-3	Jun 2020	MW-4-3	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J	
MW-4-Screen-3	Aug 2020	MW-4-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 J	
MW-4-Screen-3	Oct/Nov 2020	MW-4-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 J	
MW-4-Screen-4													
MW-4-Screen-4	Oct 2019	MW-4-4	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-4-Screen-4	Jun 2020	MW-4-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 J	
MW-4-Screen-4	Oct/Nov 2020	MW-4-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1 J	
MW-4-Screen-5													
MW-4-Screen-5	Oct 2019	MW-4-5	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-4-Screen-5	Jun 2020	MW-4-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.9 J	
MW-4-Screen-5	Oct/Nov 2020	MW-4-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-5													
MW-5	Oct 2019	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-5	Oct 2019	DUP-6-4Q19	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-5	Feb 2020	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-5	Jun 2020	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-5	Aug 2020	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-6													
MW-6	Oct 2019	MW-6	0.5 U	2.6	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.4 J	
MW-6	Feb 2020	MW-6	0.5 U	2.7	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.4 J	

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-6	Jun 2020	MW-6	0.5 U	2.1	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	1.6 J		
MW-7													
MW-7	Oct 2019	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.8	0.8 J		
MW-7	Feb 2020	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0	4.0 U	Bromodichloromethane	0.7
MW-7	Jun 2020	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	6.0	49.0	Bromodichloromethane	0.2 J
MW-7	Aug 2020	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.4	7.5		
MW-8													
MW-8	Oct 2019	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-8	Oct 2019	DUP-8-4Q19	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-8	Feb 2020	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-8	Jun 2020	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	4.0 U	Trichlorofluoromethane	0.2 J
MW-8	Aug 2020	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	1.7 J	Bromodichloromethane Dibromochloromethane	1.5 2.1
MW-8	Aug 2020	DUP-7-3Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	1.5 J	Bromodichloromethane Dibromochloromethane	1.5 2.1
MW-8	Oct/Nov 2020	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0	1.0 J	Bromodichloromethane Dibromochloromethane	2.8 1.3
MW-9													
MW-9	Oct 2019	MW-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-9	Jun 2020	MW-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-9	Oct/Nov 2020	MW-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-9	Oct/Nov 2020	DUP-7-4Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-10													
MW-10	Oct 2019	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-10	Feb 2020	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8 J		
MW-10	Jun 2020	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-10	Aug 2020	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-10	Oct/Nov 2020	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2 J		
MW-11-Screen-1													
MW-11-Screen-1	Oct 2019	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-1	Feb 2020	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-1	Jun 2020	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J		
MW-11-Screen-1	Aug 2020	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-1	Oct/Nov 2020	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2													
MW-11-Screen-2	Oct 2019	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Feb 2020	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Feb 2020	DUP-4-1Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-11-Screen-2	Jun 2020	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Aug 2020	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Oct/Nov 2020	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-3													
MW-11-Screen-3	Oct 2019	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide Methyl-tert-butyl ether (MTBE) Styrene	0.5 J 0.3 J 0.4 J
MW-11-Screen-3	Feb 2020	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide Methyl-tert-butyl ether (MTBE) Styrene	0.6 J 0.3 J 0.2 J
MW-11-Screen-3	Jun 2020	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Methyl-tert-butyl ether (MTBE) Styrene	0.2 J 0.2 J
MW-11-Screen-3	Jun 2020	Dup-5-2Q2020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.2 J
MW-11-Screen-3	Aug 2020	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide Methyl-tert-butyl ether (MTBE) Styrene	0.8 0.5 J 0.6
MW-11-Screen-3	Oct/Nov 2020	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9 J	Ethylbenzene Methyl-tert-butyl ether (MTBE) Styrene Toluene	0.3 J 0.3 J 0.6 0.2 J
MW-11-Screen-4													
MW-11-Screen-4	Oct 2019	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-4	Feb 2020	MW-11-4	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	1.1
MW-11-Screen-4	Jun 2020	MW-11-4	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-4	Aug 2020	MW-11-4	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-4	Oct/Nov 2020	MW-11-4	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-5													
MW-11-Screen-5	Oct 2019	MW-11-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-5	Jun 2020	MW-11-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-5	Oct/Nov 2020	MW-11-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-1													
MW-12-Screen-1	Feb 2020	MW-12-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acetone	14.0
MW-12-Screen-1	Jun 2020	MW-12-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-2													
MW-12-Screen-2	Oct 2019	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 J		
MW-12-Screen-2	Feb 2020	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1 J	Trichlorofluoromethane	0.2 J
MW-12-Screen-2	Feb 2020	DUP-6-1Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J		
MW-12-Screen-2	Jun 2020	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-12-Screen-2	Aug 2020	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7 J		
MW-12-Screen-2	Oct/Nov 2020	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7 J		
MW-12-Screen-3													
MW-12-Screen-3	Oct 2019	MW-12-3	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.6 J		
MW-12-Screen-3	Feb 2020	MW-12-3	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.5 J		
MW-12-Screen-3	Jun 2020	MW-12-3	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	4.0		
MW-12-Screen-3	Jun 2020	Dup-4-2Q2020	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	4.4		
MW-12-Screen-3	Aug 2020	MW-12-3	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	4.9		
MW-12-Screen-3	Oct/Nov 2020	MW-12-3	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	4.0		
MW-12-Screen-4													
MW-12-Screen-4	Oct 2019	MW-12-4	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.1 J		
MW-12-Screen-4	Feb 2020	MW-12-4	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.7 J		
MW-12-Screen-4	Jun 2020	MW-12-4	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.0 J		
MW-12-Screen-4	Aug 2020	MW-12-4	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.3 J		
MW-12-Screen-4	Oct/Nov 2020	MW-12-4	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	2.5 J		
MW-12-Screen-5													
MW-12-Screen-5	Oct 2019	MW-12-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.7 J		
MW-12-Screen-5	Feb 2020	MW-12-5	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.8 J		
MW-12-Screen-5	Jun 2020	MW-12-5	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.6 J		
MW-12-Screen-5	Aug 2020	MW-12-5	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.6 J		
MW-12-Screen-5	Oct/Nov 2020	MW-12-5	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1.5 J		
MW-13													
MW-13	Oct 2019	MW-13	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	40.0	Trichlorofluoromethane	2.8
MW-13	Feb 2020	MW-13	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5	50.0	Trichlorofluoromethane	1.6
MW-13	Jun 2020	MW-13	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	25.0	Trichlorofluoromethane	1.4
MW-14-Screen-2													
MW-14-Screen-2	Oct 2019	MW-14-2	0.5 U	1.5	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.6	3.5 J		
MW-14-Screen-2	Feb 2020	MW-14-2	0.5 U	1.5	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	3.7 J		
MW-14-Screen-2	Jun 2020	MW-14-2	0.5 U	1.4	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	3.9 J		
MW-14-Screen-2	Aug 2020	MW-14-2	0.5 U	1.2	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.4		
MW-14-Screen-2	Oct/Nov 2020	MW-14-2	0.5 U	1.2	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.8 J		
MW-14-Screen-3													
MW-14-Screen-3	Oct 2019	MW-14-3	0.5 U	0.9	0.4 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 J	4.0		
MW-14-Screen-3	Feb 2020	MW-14-3	0.5 U	1.0	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5	4.2		
MW-14-Screen-3	Jun 2020	MW-14-3	0.5 U	1.9	1.1	0.7	0.5 U	0.5 U	0.5 U	0.9	6.0	1,2,3-Trichlorobenzene	0.2 J
MW-14-Screen-3	Aug 2020	MW-14-3	0.5 U	0.8	0.5 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 J	5.1		
MW-14-Screen-3	Oct/Nov 2020	MW-14-3	0.5 U	0.8	0.5	0.3 J	0.5 U	0.5 U	0.5 U	0.4 J	4.7		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-14-Screen-4													
MW-14-Screen-4	Oct 2019	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.1	
MW-14-Screen-4	Feb 2020	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	3.8 J	
MW-14-Screen-4	Jun 2020	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.4	
MW-14-Screen-4	Aug 2020	MW-14-4	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.2	
MW-14-Screen-4	Oct/Nov 2020	MW-14-4	0.5 U	0.5 J	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.7	
MW-14-Screen-5													
MW-14-Screen-5	Oct 2019	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-14-Screen-5	Feb 2020	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-14-Screen-5	Jun 2020	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U	
MW-14-Screen-5	Aug 2020	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-14-Screen-5	Oct/Nov 2020	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U	
MW-15													
MW-15	Oct 2019	MW-15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-15	Jun 2020	MW-15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-15	Jun 2020	Dup-7-2Q2020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-15	Oct/Nov 2020	MW-15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-15	Oct/Nov 2020	DUP-8-4Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-16													
MW-16	Oct 2019	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 J	
MW-16	Feb 2020	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.9	4.0 U	Bromodichloromethane 3.3
MW-16	Jun 2020	MW-16	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	4.0 U	Bromodichloromethane 0.3 J
MW-17-Screen-1													
MW-17-Screen-1	Oct 2019	MW-17-1	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-1	Jun 2020	MW-17-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2													
MW-17-Screen-2	Oct 2019	MW-17-2	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2	Feb 2020	MW-17-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2	Jun 2020	MW-17-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2	Jun 2020	Dup-2-2Q2020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2	Aug 2020	MW-17-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-2	Oct/Nov 2020	MW-17-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-17-Screen-3													
MW-17-Screen-3	Oct 2019	MW-17-3	0.5 UJ	2.0	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.6	
MW-17-Screen-3	Feb 2020	MW-17-3	0.5 U	5.2	1.0	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.6	3.5 J	
MW-17-Screen-3	Jun 2020	MW-17-3	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.7 J	
MW-17-Screen-3	Aug 2020	MW-17-3	0.5 U	1.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.5 J	
MW-17-Screen-3	Oct/Nov 2020	MW-17-3	0.5 U	4.1	0.8	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.9 J	

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-17-Screen-4													
MW-17-Screen-4	Oct 2019	MW-17-4	0.5 UJ	0.9	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.8 J		
MW-17-Screen-4	Feb 2020	MW-17-4	0.5 U	1.1	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.6	3.9 J		
MW-17-Screen-4	Jun 2020	MW-17-4	0.5 U	0.5 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.1		
MW-17-Screen-4	Aug 2020	MW-17-4	0.5 U	1.3	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.8	5.1		
MW-17-Screen-4	Oct/Nov 2020	MW-17-4	0.2 J	1.9	1.0	0.2 J	0.5 U	0.5 U	0.5 U	1.1	5.4		
MW-17-Screen-5													
MW-17-Screen-5	Oct 2019	MW-17-5	0.5 UJ	0.9	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	4.2		
MW-17-Screen-5	Jun 2020	MW-17-5	0.5 U	1.4	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.9	4.3		
MW-17-Screen-5	Oct/Nov 2020	MW-17-5	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	5.2		
MW-18-Screen-1													
MW-18-Screen-1	Jun 2020	MW-18-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2													
MW-18-Screen-2	Oct 2019	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Oct 2019	DUP-7-4Q19	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Feb 2020	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Jun 2020	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Aug 2020	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Oct/Nov 2020	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-3													
MW-18-Screen-3	Oct 2019	MW-18-3	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 J		
MW-18-Screen-3	Feb 2020	MW-18-3	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-3	Jun 2020	MW-18-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J		
MW-18-Screen-3	Aug 2020	MW-18-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8 J		
MW-18-Screen-3	Oct/Nov 2020	MW-18-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2 J		
MW-18-Screen-4													
MW-18-Screen-4	Oct 2019	MW-18-4	2.2	1.1	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.9	16.0		
MW-18-Screen-4	Feb 2020	MW-18-4	4.7	2.3	1.9	0.5 U	0.5 U	0.5 U	0.5 U	1.3	15.0		
MW-18-Screen-4	Jun 2020	MW-18-4	1.1	0.7	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.6	16.0		
MW-18-Screen-4	Aug 2020	MW-18-4	4.6	2.2	1.6	0.5 U	0.5 U	0.5 U	0.5 U	1.3	16.0		
MW-18-Screen-4	Oct/Nov 2020	MW-18-4	4.5	2.3	1.7	0.5 U	0.5 U	0.5 U	0.5 U	1.4	16.0		
MW-18-Screen-5													
MW-18-Screen-5	Oct 2019	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.1 J
MW-18-Screen-5	Feb 2020	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-5	Jun 2020	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide Styrene	0.8 J 0.1 J
MW-18-Screen-5	Aug 2020	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-5	Oct/Nov 2020	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.1 J

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-19-Screen-1													
MW-19-Screen-1	Oct 2019	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.0 U		
MW-19-Screen-1	Feb 2020	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U		
MW-19-Screen-1	Jun 2020	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	4.0 U		
MW-19-Screen-1	Aug 2020	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.2	4.0 U	Methyl-tert-butyl ether (MTBE)	0.3 J
MW-19-Screen-1	Oct/Nov 2020	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	4.0 U	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-19-Screen-2													
MW-19-Screen-2	Oct 2019	MW-19-2	0.5 U	0.8	1.5	0.5 U	0.5 U	0.5 U	0.5 U	1.9	3.7 J	cis-1,2-Dichloroethene	0.3 J
MW-19-Screen-2	Feb 2020	MW-19-2	0.5 U	1.0	2.7	0.5 U	0.5 U	0.5 U	0.5 U	1.9	2.6 J	cis-1,2-Dichloroethene	0.3 J
MW-19-Screen-2	Jun 2020	MW-19-2	0.5 U	0.6	1.3	0.5 U	0.5 U	0.5 U	0.5 U	1.3	3.3 J		
MW-19-Screen-2	Aug 2020	MW-19-2	0.5 U	0.7	1.2	0.5 U	0.5 U	0.5 U	0.5 U	1.3	2.8 J		
MW-19-Screen-2	Oct/Nov 2020	MW-19-2	0.5 U	0.5 J	0.9	0.5 U	0.5 U	0.5 U	0.5 U	1.0	3.1 J		
MW-19-Screen-3													
MW-19-Screen-3	Oct 2019	MW-19-3	0.5 U	0.2 J	0.6	0.5 U	0.5 U	0.5 U	0.5 U	2.5	3.5 J		
MW-19-Screen-3	Feb 2020	MW-19-3	0.5 U	0.4 J	0.9	0.5 U	0.5 U	0.5 U	0.5 U	2.8	3.3 J		
MW-19-Screen-3	Jun 2020	MW-19-3	0.5 U	0.3 J	0.7	0.5 U	0.5 U	0.5 U	0.5 U	2.1	3.7 J		
MW-19-Screen-3	Jun 2020	DUP-1-2Q2020	0.5 U	0.2 J	0.5	0.5 U	0.5 U	0.5 U	0.5 U	1.9	3.9 J		
MW-19-Screen-3	Aug 2020	MW-19-3	0.5 U	0.9	1.9	0.2 J	0.5 U	0.5 U	0.5 U	4.4	2.9 J	cis-1,2-Dichloroethene	0.3 J
MW-19-Screen-3	Oct/Nov 2020	MW-19-3	0.5 U	0.4 J	0.9	0.5 U	0.5 U	0.5 U	0.5 U	2.3	3.6 J		
MW-19-Screen-3	Oct/Nov 2020	DUP-2-4Q20	0.5 U	0.3 J	0.6	0.5 U	0.5 U	0.5 U	0.5 U	1.6	3.8 J		
MW-19-Screen-4													
MW-19-Screen-4	Oct 2019	MW-19-4	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.0 J		
MW-19-Screen-4	Oct 2019	DUP-2-4Q19	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.9	2.9 J		
MW-19-Screen-4	Feb 2020	MW-19-4	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	2.0	3.1 J		
MW-19-Screen-4	Jun 2020	MW-19-4	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.7	3.6 J		
MW-19-Screen-4	Aug 2020	MW-19-4	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.8	2.5 J		
MW-19-Screen-4	Oct/Nov 2020	MW-19-4	0.5 U	0.2 J	0.5	0.5 U	0.5 U	0.5 U	0.5 U	2.1	3.2 J		
MW-19-Screen-5													
MW-19-Screen-5	Oct 2019	MW-19-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.8	1.7 J		
MW-19-Screen-5	Feb 2020	MW-19-5	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	4.0	1.5 J		
MW-19-Screen-5	Jun 2020	MW-19-5	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1.3	2.7 J		
MW-19-Screen-5	Aug 2020	MW-19-5	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.9	2.9 J		
MW-19-Screen-5	Oct/Nov 2020	MW-19-5	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.9	3.0 J		
MW-20-Screen-2													
MW-20-Screen-2	Oct 2019	MW-20-2	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.9	2.2 J		
MW-20-Screen-2	Feb 2020	MW-20-2	0.5 U	0.9	0.9	0.5 U	0.5 U	0.5 U	0.5 U	1.1	1.0 J		
MW-20-Screen-2	Jun 2020	MW-20-2	0.5 U	0.4 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.8	0.9 J		
MW-20-Screen-2	Aug 2020	MW-20-2	0.5 U	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1.7 J		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-20-Screen-2	Oct/Nov 2020	MW-20-2	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1.6 J	Carbon disulfide	0.5 J
MW-20-Screen-2	Oct/Nov 2020	DUP-1-4Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	9.8	Acrylonitrile	9.4
												Benzene	0.8
												Ethylbenzene	0.2 J
												Methyl-tert-butyl ether (MTBE)	1.7
												o-Xylene	0.1 J
												Styrene	2.4
												Vinyl chloride	1.5
MW-20-Screen-3													
MW-20-Screen-3	Oct 2019	MW-20-3	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acrylonitrile	1.9 J
												Carbon disulfide	0.6 J
												Styrene	0.3 J
MW-20-Screen-3	Feb 2020	MW-20-3	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7 J
												Styrene	0.3 J
MW-20-Screen-3	Jun 2020	MW-20-3	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.6 J
												Ethylbenzene	0.2 J
												Styrene	0.4 J
MW-20-Screen-3	Aug 2020	MW-20-3	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.3 J
MW-20-Screen-3	Oct/Nov 2020	MW-20-3	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7
												Styrene	0.3 J
MW-20-Screen-4													
MW-20-Screen-4	Oct 2019	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7 J
MW-20-Screen-4	Oct 2019	DUP-1-4Q19	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.5 J
MW-20-Screen-4	Feb 2020	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Jun 2020	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Aug 2020	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Aug 2020	DUP-1-3Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Oct/Nov 2020	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-5													
MW-20-Screen-5	Oct 2019	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.6 J
												Styrene	0.2 J
MW-20-Screen-5	Feb 2020	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-5	Jun 2020	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.8 J
												Styrene	0.2 J
MW-20-Screen-5	Aug 2020	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.6
												Styrene	0.1 J
MW-20-Screen-5	Oct/Nov 2020	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7
												Styrene	0.1 J

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-21-Screen-2													
MW-21-Screen-2	Oct 2019	MW-21-2	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.8 J		
MW-21-Screen-2	Feb 2020	MW-21-2	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	2.0 J		
MW-21-Screen-2	Jun 2020	MW-21-2	0.5 U	0.3 J	2.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	1.9 J		
MW-21-Screen-2	Jun 2020	DUP-6-2Q2020	0.5 U	0.2 J	1.8	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1.8 J		
MW-21-Screen-2	Aug 2020	MW-21-2	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1 J		
MW-21-Screen-2	Oct/Nov 2020	MW-21-2	0.5 U	0.2 J	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.7 J		
MW-21-Screen-2	Oct/Nov 2020	DUP-5-4Q20	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.6 J		
MW-21-Screen-3													
MW-21-Screen-3	Oct 2019	MW-21-3	0.5 U	0.7	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.7 J		
MW-21-Screen-3	Feb 2020	MW-21-3	0.5 U	0.9	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.2 J		
MW-21-Screen-3	Feb 2020	DUP-3-1Q20	0.5 U	1.5	1.9	0.2 J	0.5 U	0.5 U	0.5 U	0.6	2.7 J		
MW-21-Screen-3	Jun 2020	MW-21-3	0.5 U	2.0	2.3	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.2 J		
MW-21-Screen-3	Aug 2020	MW-21-3	0.5 U	0.7	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.5 J		
MW-21-Screen-3	Oct/Nov 2020	MW-21-3	0.5 U	2.0	2.1	0.2 J	0.5 U	0.5 U	0.5 U	0.7	2.8 J		
MW-21-Screen-4													
MW-21-Screen-4	Oct 2019	MW-21-4	0.5 U	1.0	2.9	0.2 J	0.5 U	0.5 U	0.5 U	5.3	2.7 J	cis-1,2-Dichloroethene	0.3 J
MW-21-Screen-4	Oct 2019	DUP-5-4Q19	0.5 U	1.0	3.0	0.2 J	0.5 U	0.5 U	0.5 U	6.1	2.7 J	cis-1,2-Dichloroethene	0.5 J
MW-21-Screen-4	Feb 2020	MW-21-4	0.5 U	0.4 J	1.2	0.5 U	0.5 U	0.5 U	0.5 U	4.6	3.3 J		
MW-21-Screen-4	Jun 2020	MW-21-4	0.5 U	0.8	2.6	0.5 U	0.5 U	0.5 U	0.5 U	7.8	3.7 J		
MW-21-Screen-4	Aug 2020	MW-21-4	0.5 U	0.4 J	1.0	0.5 U	0.5 U	0.5 U	0.5 U	3.2	2.7 J		
MW-21-Screen-4	Aug 2020	DUP-5-3Q20	0.5 U	0.4 J	1.0	0.5 U	0.5 U	0.5 U	0.5 U	3.3	3.1 J		
MW-21-Screen-4	Oct/Nov 2020	MW-21-4	0.5 U	0.6	1.2	0.5 U	0.5 U	0.5 U	0.5 U	3.5	2.8 J		
MW-21-Screen-5													
MW-21-Screen-5	Oct 2019	MW-21-5	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	5.4	2.1 J		
MW-21-Screen-5	Feb 2020	MW-21-5	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	4.4	2.5 J		
MW-21-Screen-5	Jun 2020	MW-21-5	0.5 U	0.3 J	1.9	0.5 U	0.5 U	0.5 U	0.5 U	9.5	2.4 J		
MW-21-Screen-5	Aug 2020	MW-21-5	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	4.6	2.5 J		
MW-21-Screen-5	Oct/Nov 2020	MW-21-5	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	4.1	2.4 J		
MW-22-Screen-1													
MW-22-Screen-1	Oct 2019	MW-22-1	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	170.0		
MW-22-Screen-1	Feb 2020	MW-22-1	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	5.8		
MW-22-Screen-1	Jun 2020	MW-22-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1	160.0		
MW-22-Screen-1	Aug 2020	MW-22-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	320.0		
MW-22-Screen-1	Oct/Nov 2020	MW-22-1	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.7	100.0		
MW-22-Screen-2													
MW-22-Screen-2	Oct 2019	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6 J		
MW-22-Screen-2	Oct 2019	DUP-4-4Q19	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.9 J		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-22-Screen-2	Feb 2020	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.3 J		
MW-22-Screen-2	Jun 2020	MW-22-2	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.8 J		
MW-22-Screen-2	Aug 2020	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6 J		
MW-22-Screen-2	Aug 2020	DUP-3-3Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.7 J		
MW-22-Screen-2	Oct/Nov 2020	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.9 J		
MW-22-Screen-3													
MW-22-Screen-3	Oct 2019	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8 J		
MW-22-Screen-3	Feb 2020	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.8 J		
MW-22-Screen-3	Jun 2020	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.5 J		
MW-22-Screen-3	Aug 2020	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.7 J		
MW-22-Screen-3	Oct/Nov 2020	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.7 J		
MW-22-Screen-4													
MW-22-Screen-4	Oct 2019	MW-22-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 J		
MW-22-Screen-4	Jun 2020	MW-22-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-22-Screen-4	Oct/Nov 2020	MW-22-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J		
MW-22-Screen-5													
MW-22-Screen-5	Oct 2019	MW-22-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-22-Screen-5	Jun 2020	MW-22-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7 J
MW-22-Screen-5	Oct/Nov 2020	MW-22-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.6
MW-23-Screen-1													
MW-23-Screen-1	Oct 2019	MW-23-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J		
MW-23-Screen-1	Feb 2020	MW-23-1	0.5 U	1.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	7.2		
MW-23-Screen-1	Jun 2020	MW-23-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8 J		
MW-23-Screen-1	Aug 2020	MW-23-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.0 J		
MW-23-Screen-1	Oct/Nov 2020	MW-23-1	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	14.0		
MW-23-Screen-2													
MW-23-Screen-2	Oct 2019	MW-23-2	0.5 U	1.4	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 J	3.9 J		
MW-23-Screen-2	Feb 2020	MW-23-2	0.5 U	1.2	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	4.4		
MW-23-Screen-2	Jun 2020	MW-23-2	0.5 U	1.0	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.7 J		
MW-23-Screen-2	Aug 2020	MW-23-2	0.5 U	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	5.2		
MW-23-Screen-2	Oct/Nov 2020	MW-23-2	0.5 U	2.4	0.7	0.3 J	0.5 U	0.5 U	0.5 U	0.7	4.5		
MW-23-Screen-2	Oct/Nov 2020	DUP-4-4Q20	0.5 U	2.4	0.7	0.3 J	0.5 U	0.5 U	0.5 U	0.8	4.8		
MW-23-Screen-3													
MW-23-Screen-3	Oct 2019	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6 J		
MW-23-Screen-3	Feb 2020	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.9 J		
MW-23-Screen-3	Jun 2020	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.5 J		
MW-23-Screen-3	Jun 2020	Dup-3-2Q2020	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.2 J		
MW-23-Screen-3	Aug 2020	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.5 J		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP		
MW-23-Screen-3	Oct/Nov 2020	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.4 J			
MW-23-Screen-4														
MW-23-Screen-4	Oct 2019	MW-23-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2 J			
MW-23-Screen-4	Jun 2020	MW-23-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8 J			
MW-23-Screen-4	Oct/Nov 2020	MW-23-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.3 J			
MW-23-Screen-5														
MW-23-Screen-5	Oct 2019	MW-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.3 J	
MW-23-Screen-5	Jun 2020	MW-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.3 J	
MW-23-Screen-5	Oct/Nov 2020	MW-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.4 J	
MW-24-Screen-1														
MW-24-Screen-1	Oct 2019	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4	2.1 J			
MW-24-Screen-1	Feb 2020	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.8	2.2 J			
MW-24-Screen-1	Jun 2020	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.1	5.6			
MW-24-Screen-1	Aug 2020	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	5.6			
MW-24-Screen-1	Oct/Nov 2020	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1	14.0			
MW-24-Screen-2														
MW-24-Screen-2	Oct 2019	MW-24-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	5.6	Bromodichloromethane	0.2 J
MW-24-Screen-2	Feb 2020	MW-24-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.3	Bromodichloromethane	0.2 J
MW-24-Screen-2	Feb 2020	DUP-5-1Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.8		
MW-24-Screen-2	Jun 2020	MW-24-2	0.5 U	0.5 U	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U	0.9	4.9	Bromodichloromethane	0.4 J	
MW-24-Screen-2	Aug 2020	MW-24-2	0.3 J	0.5 U	0.4 J	0.3 J	0.5 U	0.5 U	0.5 U	0.7	5.7	Bromodichloromethane	0.2 J	
MW-24-Screen-2	Aug 2020	DUP-4-3Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	5.8		
MW-24-Screen-2	Oct/Nov 2020	MW-24-2	0.5 U	0.5 U	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U	0.7	5.7	Bromodichloromethane	0.2 J	
MW-24-Screen-3														
MW-24-Screen-3	Oct 2019	MW-24-3	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-24-Screen-3	Feb 2020	MW-24-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-24-Screen-3	Jun 2020	MW-24-3	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-24-Screen-3	Aug 2020	MW-24-3	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	8.0 U			
MW-24-Screen-3	Oct/Nov 2020	MW-24-3	0.5 U	0.5 U	0.2 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-24-Screen-3	Oct/Nov 2020	DUP-3-4Q20	0.5 U	0.5 U	0.4 J	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.5 J			
MW-24-Screen-4														
MW-24-Screen-4	Oct 2019	MW-24-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J	Carbon disulfide Styrene	0.6 J 0.2 J	
MW-24-Screen-4	Jun 2020	MW-24-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide Styrene	0.5 J 0.2 J	
MW-24-Screen-4	Oct/Nov 2020	MW-24-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Styrene	0.1 J	
MW-24-Screen-5														
MW-24-Screen-5	Oct 2019	MW-24-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP		
MW-24-Screen-5	Jun 2020	MW-24-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-24-Screen-5	Oct/Nov 2020	MW-24-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U			
MW-25-Screen-1														
MW-25-Screen-1	Oct 2019	MW-25-1	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	7.1	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-1	Feb 2020	MW-25-1	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	6.5	Methyl-tert-butyl ether (MTBE)	0.5 J
MW-25-Screen-1	Jun 2020	MW-25-1	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	6.5	Methyl-tert-butyl ether (MTBE)	0.5 J
MW-25-Screen-1	Aug 2020	MW-25-1	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	6.5	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-1	Aug 2020	DUP-2-3Q20	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	6.8	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-1	Oct/Nov 2020	MW-25-1	0.5 U	1.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	6.8	Methyl-tert-butyl ether (MTBE)	0.5
MW-25-Screen-2														
MW-25-Screen-2	Oct 2019	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	13.0		
MW-25-Screen-2	Feb 2020	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	11.0		
MW-25-Screen-2	Jun 2020	MW-25-2	0.5 U	0.5	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	12.0		
MW-25-Screen-2	Aug 2020	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12.0		
MW-25-Screen-2	Oct/Nov 2020	MW-25-2	0.5 U	0.3 J	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	12.0		
MW-25-Screen-3														
MW-25-Screen-3	Oct 2019	MW-25-3	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	9.2		
MW-25-Screen-3	Oct 2019	DUP-3-4Q19	0.5 U	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	9.3		
MW-25-Screen-3	Feb 2020	MW-25-3	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	8.6		
MW-25-Screen-3	Jun 2020	MW-25-3	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	9.3		
MW-25-Screen-3	Aug 2020	MW-25-3	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	8.4		
MW-25-Screen-3	Oct/Nov 2020	MW-25-3	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	9.8		
MW-25-Screen-4														
MW-25-Screen-4	Oct 2019	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7.8		
MW-25-Screen-4	Feb 2020	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7.8		
MW-25-Screen-4	Jun 2020	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.1		
MW-25-Screen-4	Aug 2020	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.4		
MW-25-Screen-4	Oct/Nov 2020	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.5		
MW-25-Screen-5														
MW-25-Screen-5	Oct 2019	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7 J
MW-25-Screen-5	Feb 2020	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.8 J
MW-25-Screen-5	Feb 2020	DUP-1-1Q20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Carbon disulfide	0.7 J
MW-25-Screen-5	Jun 2020	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-25-Screen-5	Aug 2020	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-25-Screen-5	Oct/Nov 2020	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-26-Screen-1														
MW-26-Screen-1	Oct 2019	MW-26-1	0.5 U	0.5 J	1.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	1.8 J		
MW-26-Screen-1	Feb 2020	MW-26-1	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.9 J		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-26-Screen-1	Jun 2020	MW-26-1	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.1 J		
MW-26-Screen-1	Aug 2020	MW-26-1	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	2.7 J		
MW-26-Screen-1	Oct/Nov 2020	MW-26-1	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	2.2 J		
MW-26-Screen-2													
MW-26-Screen-2	Oct 2019	MW-26-2	0.5 U	0.2 J	2.0	0.5 U	0.5 U	0.5 U	0.5 U	1.8	3.0 J		
MW-26-Screen-2	Feb 2020	MW-26-2	0.5 U	0.3 J	2.8	0.5 U	0.5 U	0.5 U	0.5 U	2.1	2.6 J		
MW-26-Screen-2	Jun 2020	MW-26-2	0.5 U	0.5 U	1.7	0.5 U	0.5 U	0.5 U	0.5 U	1.5	3.5 J		
MW-26-Screen-2	Aug 2020	MW-26-2	0.5 U	0.3 J	2.7	0.5 U	0.5 U	0.5 U	0.5 U	2.5	3.0 J		
MW-26-Screen-2	Oct/Nov 2020	MW-26-2	0.5 U	0.4 J	2.9	0.5 U	0.5 U	0.5 U	0.5 U	2.7	3.1 J	cis-1,2-Dichloroethene	0.3 J

Analyte concentration exceeds the standard for:

CA MCL	0.5	5.0	5.0	5.0	0.5	6.0	1200.0	TTHM	6.0				
EPA REGION IX MCL	5.0	5.0	5.0	NE	5.0	7.0	NE	TTHM	NE				

Notes

DUP(E)	Field Duplicate
NA	Not analyzed
NE	Not established
TTHM	Chloroform is regulated under the state and federal MCL of 80 µg/L for Total Trihalomethanes (TTHMs); the MCL applies to the sum of all four THMs (Bromodichloromethane, Bromoform, Dibromochloromethane, and Chloroform) as an annual average
J	Analyte concentration is an estimated value
U	Analyte was analyzed for but not detected at or above the stated limit
UJ	Analyte was analyzed for but not detected; analyte concentration is an estimated value

TABLE 2
SUMMARY OF METALS DETECTED DURING THE LAST FIVE
SAMPLING EVENTS OF THE LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM
(Shaded values exceed State or Federal MCLs or action levels.)

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-1						
MW-1	Oct 2019	MW-1	NA	NA	3.0 U	0.20 U
MW-1	Jun 2020	MW-1	2.0 U	1.0 U	3.0 U	0.43 U
MW-1	Jun 2020	Dup-8-2Q2020	2.0 U	1.0 U	3.0 U	0.20 U
MW-1	Oct/Nov 2020	MW-1	NA	NA	3.0 U	0.20 U
MW-1	Oct/Nov 2020	DUP-6-4Q20	NA	NA	3.0 U	0.20 U
MW-3-Screen-1						
MW-3-Screen-1	Oct 2019	MW-3-1	NA	NA	3.0 U	0.20 U
MW-3-Screen-1	Jun 2020	MW-3-1	2.0 U	1.0 U	3.0 U	0.08 J
MW-3-Screen-1	Oct/Nov 2020	MW-3-1	NA	NA	3.0 U	0.20 U
MW-3-Screen-2						
MW-3-Screen-2	Oct 2019	MW-3-2	NA	NA	3.0 U	0.20 U
MW-3-Screen-2	Feb 2020	MW-3-2	NA	NA	3.0 U	0.20 U
MW-3-Screen-2	Jun 2020	MW-3-2	0.8 J	1.0 U	3.0 U	0.36
MW-3-Screen-2	Aug 2020	MW-3-2	NA	NA	1.5 J	0.51 J
MW-3-Screen-2	Oct/Nov 2020	MW-3-2	NA	NA	3.0 U	0.62
MW-3-Screen-3						
MW-3-Screen-3	Oct 2019	MW-3-3	NA	NA	2.1 J	1.00
MW-3-Screen-3	Feb 2020	MW-3-3	NA	NA	1.8 J	1.60
MW-3-Screen-3	Jun 2020	MW-3-3	2.4	1.0 U	4.6	0.38
MW-3-Screen-3	Aug 2020	MW-3-3	NA	NA	2.2 J	0.57
MW-3-Screen-3	Oct/Nov 2020	MW-3-3	NA	NA	1.1 J	0.73
MW-3-Screen-4						
MW-3-Screen-4	Oct 2019	MW-3-4	NA	NA	95.0	0.16 J
MW-3-Screen-4	Feb 2020	MW-3-4	NA	NA	64.0	0.25
MW-3-Screen-4	Feb 2020	DUP-2-1Q20	NA	NA	57.0	0.24
MW-3-Screen-4	Jun 2020	MW-3-4	26.0	1.0 U	44.0	0.31
MW-3-Screen-4	Aug 2020	MW-3-4	NA	NA	37.0	0.60
MW-3-Screen-4	Oct/Nov 2020	MW-3-4	NA	NA	21.0	0.85
MW-3-Screen-5						
MW-3-Screen-5	Oct 2019	MW-3-5	NA	NA	3.6	0.12 J
MW-3-Screen-5	Jun 2020	MW-3-5	77.0	1.0 U	140.0	0.34
MW-3-Screen-5	Oct/Nov 2020	MW-3-5	NA	NA	20.0	0.73
MW-4-Screen-1						
MW-4-Screen-1	Oct 2019	MW-4-1	NA	NA	3.0 U	0.06 J
MW-4-Screen-1	Feb 2020	MW-4-1	NA	NA	3.0 U	0.07 J
MW-4-Screen-1	Jun 2020	MW-4-1	0.9 J	1.0 U	3.0 U	0.11 J
MW-4-Screen-1	Aug 2020	MW-4-1	NA	NA	3.0 U	0.20 U
MW-4-Screen-1	Oct/Nov 2020	MW-4-1	NA	NA	3.0 U	0.10 UJ

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-4-Screen-2						
MW-4-Screen-2	Oct 2019	MW-4-2	NA	NA	1.4 J	0.73
MW-4-Screen-2	Feb 2020	MW-4-2	NA	NA	0.9 J	0.92
MW-4-Screen-2	Jun 2020	MW-4-2	2.0 U	1.0 U	0.9 J	0.20 U
MW-4-Screen-2	Aug 2020	MW-4-2	NA	NA	1.5 J	0.67 J
MW-4-Screen-2	Oct/Nov 2020	MW-4-2	NA	NA	1.6 J	0.91
MW-4-Screen-3						
MW-4-Screen-3	Oct 2019	MW-4-3	NA	NA	3.8	0.20 U
MW-4-Screen-3	Feb 2020	MW-4-3	NA	NA	1.5 J	0.10 J
MW-4-Screen-3	Feb 2020	DUP-7-1Q20	NA	NA	2.1 J	0.09 J
MW-4-Screen-3	Jun 2020	MW-4-3	2.0 U	1.0 U	1.0 J	0.03 J
MW-4-Screen-3	Aug 2020	MW-4-3	NA	NA	1.3 J	0.20 U
MW-4-Screen-3	Oct/Nov 2020	MW-4-3	NA	NA	2.1 J	0.20 U
MW-4-Screen-4						
MW-4-Screen-4	Oct 2019	MW-4-4	NA	NA	3.0 U	0.20 U
MW-4-Screen-4	Jun 2020	MW-4-4	2.0 U	1.0 U	0.6 J	0.20 U
MW-4-Screen-4	Oct/Nov 2020	MW-4-4	NA	NA	0.8 J	0.20 U
MW-4-Screen-5						
MW-4-Screen-5	Oct 2019	MW-4-5	NA	NA	9.5	0.20 U
MW-4-Screen-5	Jun 2020	MW-4-5	1.1 J	1.0 U	2.4 J	0.20 U
MW-4-Screen-5	Oct/Nov 2020	MW-4-5	NA	NA	3.0 U	0.20 U
MW-5						
MW-5	Oct 2019	MW-5	NA	NA	0.7 J	0.20 U
MW-5	Oct 2019	DUP-6-4Q19	NA	NA	0.7 J	0.20 U
MW-5	Feb 2020	MW-5	NA	NA	2.5 J	0.14 J
MW-5	Jun 2020	MW-5	1.0 J	1.0 U	3.0 U	0.20 U
MW-5	Aug 2020	MW-5	NA	NA	1.8 J	0.20 U
MW-6						
MW-6	Oct 2019	MW-6	NA	NA	39.0	2.10
MW-6	Feb 2020	MW-6	NA	NA	8.1	1.70
MW-7						
MW-7	Oct 2019	MW-7	NA	NA	20.0 J	1.00
MW-7	Feb 2020	MW-7	NA	NA	17.0	0.95
MW-7	Jun 2020	MW-7	2.0 U	1.0 U	37.0	1.20
MW-7	Aug 2020	MW-7	NA	NA	190.0	0.57
MW-8						
MW-8	Oct 2019	MW-8	NA	NA	2.1 J	0.63
MW-8	Oct 2019	DUP-8-4Q19	NA	NA	4.0 J	0.64
MW-8	Feb 2020	MW-8	NA	NA	2.4 J	0.46
MW-8	Jun 2020	MW-8	2.0 U	1.0 U	6.0	0.29
MW-8	Aug 2020	MW-8	NA	NA	3.7	0.97 J
MW-8	Aug 2020	DUP-7-3Q20	NA	NA	3.2	0.88
MW-9						
MW-9	Oct 2019	MW-9	NA	NA	80.0 J	0.38
MW-9	Jun 2020	MW-9	2.0 U	1.0 U	3.0 U	0.52

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-9	Oct/Nov 2020	MW-9	NA	NA	240.0	0.48 UJ
MW-9	Oct/Nov 2020	DUP-7-4Q20	NA	NA	230.0	0.48 UJ
MW-10						
MW-10	Oct 2019	MW-10	NA	NA	4.1	1.10
MW-10	Feb 2020	MW-10	NA	NA	12.0	0.85
MW-10	Jun 2020	MW-10	1.0 J	1.0 U	7.4	0.79
MW-10	Aug 2020	MW-10	NA	NA	18.0	0.90
MW-11-Screen-1						
MW-11-Screen-1	Oct 2019	MW-11-1	NA	NA	4.5	0.20 U
MW-11-Screen-1	Feb 2020	MW-11-1	NA	NA	3.0 U	0.14 J
MW-11-Screen-1	Jun 2020	MW-11-1	2.0 U	1.0 U	3.0 U	0.05 J
MW-11-Screen-1	Aug 2020	MW-11-1	NA	NA	3.0 U	0.13 UJ
MW-11-Screen-1	Oct/Nov 2020	MW-11-1	NA	NA	3.0 U	0.20 U
MW-11-Screen-2						
MW-11-Screen-2	Oct 2019	MW-11-2	NA	NA	3.0 U	0.20 U
MW-11-Screen-2	Feb 2020	MW-11-2	NA	NA	1.4 J	0.20 U
MW-11-Screen-2	Feb 2020	DUP-4-1Q20	NA	NA	3.0 U	0.20 U
MW-11-Screen-2	Jun 2020	MW-11-2	1.0 J	1.0 U	3.0 U	0.05 J
MW-11-Screen-2	Aug 2020	MW-11-2	NA	NA	3.0 U	NA
MW-11-Screen-2	Oct/Nov 2020	MW-11-2	NA	NA	3.0 U	0.06 UJ
MW-11-Screen-3						
MW-11-Screen-3	Oct 2019	MW-11-3	NA	NA	1.3 J	0.20 U
MW-11-Screen-3	Mar-20	MW-11-3	NA	NA	3.0 U	0.20 U
MW-11-Screen-3	Jun 2020	MW-11-3	1.7 J	0.2 J	6.7	0.09 J
MW-11-Screen-3	Jun 2020	Dup-5-2Q2020	1.6 J	1.0 U	3.0 U	0.04 J
MW-11-Screen-3	Aug 2020	MW-11-3	NA	NA	3.0 U	0.20 U
MW-11-Screen-3	Oct/Nov 2020	MW-11-3	NA	NA	0.6 J	0.05 UJ
MW-11-Screen-4						
MW-11-Screen-4	Oct 2019	MW-11-4	NA	NA	3.0 U	0.20 U
MW-11-Screen-4	Jun 2020	MW-11-4	2.0 U	1.0 U	3.0 U	0.06 J
MW-11-Screen-4	Oct/Nov 2020	MW-11-4	NA	NA	3.0 U	0.20 U
MW-11-Screen-5						
MW-11-Screen-5	Oct 2019	MW-11-5	NA	NA	1.2 J	0.20 U
MW-11-Screen-5	Jun 2020	MW-11-5	5.6	1.6	7.4	0.07 J
MW-11-Screen-5	Oct/Nov 2020	MW-11-5	NA	NA	1.4 J	0.20 U
MW-12-Screen-1						
MW-12-Screen-1	Feb 2020	MW-12-1	NA	NA	3.0 U	0.29
MW-12-Screen-1	Jun 2020	MW-12-1	2.0 U	1.0 U	3.0 U	0.77
MW-12-Screen-2						
MW-12-Screen-2	Oct 2019	MW-12-2	NA	NA	0.5 J	0.07 J
MW-12-Screen-2	Feb 2020	MW-12-2	NA	NA	0.8 J	0.20 U
MW-12-Screen-2	Feb 2020	DUP-6-1Q20	NA	NA	0.6 J	0.20 U
MW-12-Screen-2	Jun 2020	MW-12-2	2.0 U	1.0 U	3.0 U	0.20 U
MW-12-Screen-2	Aug 2020	MW-12-2	NA	NA	1.0 J	0.20 U
MW-12-Screen-2	Oct/Nov 2020	MW-12-2	NA	NA	1.2 J	0.20 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-12-Screen-3						
MW-12-Screen-3	Oct 2019	MW-12-3	NA	NA	3.0 U	0.21
MW-12-Screen-3	Feb 2020	MW-12-3	NA	NA	3.0 U	0.33
MW-12-Screen-3	Jun 2020	MW-12-3	2.0 U	1.0 U	3.0 U	0.51
MW-12-Screen-3	Jun 2020	Dup-4-2Q2020	2.0 U	1.0 U	3.0 U	0.54
MW-12-Screen-3	Aug 2020	MW-12-3	NA	NA	0.6 J	0.45
MW-12-Screen-3	Oct/Nov 2020	MW-12-3	NA	NA	1.2 J	0.40
MW-12-Screen-4						
MW-12-Screen-4	Oct 2019	MW-12-4	NA	NA	3.0 U	0.55
MW-12-Screen-4	Jun 2020	MW-12-4	1.8 J	1.0 U	0.6 J	0.58
MW-12-Screen-4	Oct/Nov 2020	MW-12-4	NA	NA	0.8 J	0.71
MW-12-Screen-5						
MW-12-Screen-5	Oct 2019	MW-12-5	NA	NA	0.6 J	0.98
MW-12-Screen-5	Jun 2020	MW-12-5	2.2	0.1 J	2.4 J	1.20
MW-12-Screen-5	Oct/Nov 2020	MW-12-5	NA	NA	1.7 J	1.50
MW-13						
MW-13	Jun 2020	MW-13	2.0 U	1.0 U	8.3	2.60
MW-14-Screen-2						
MW-14-Screen-2	Oct 2019	MW-14-2	NA	NA	3.0 U	0.42
MW-14-Screen-2	Feb 2020	MW-14-2	NA	NA	3.0 U	0.22
MW-14-Screen-2	Jun 2020	MW-14-2	2.0 U	1.0 U	1.3 J	0.11 J
MW-14-Screen-2	Aug 2020	MW-14-2	NA	NA	3.0 U	0.51 J
MW-14-Screen-2	Oct/Nov 2020	MW-14-2	NA	NA	0.6 J	0.64 J
MW-14-Screen-3						
MW-14-Screen-3	Oct 2019	MW-14-3	NA	NA	3.0 U	0.08 J
MW-14-Screen-3	Feb 2020	MW-14-3	NA	NA	3.0 U	0.40
MW-14-Screen-3	Jun 2020	MW-14-3	2.0 U	1.0 U	0.6 J	0.20 U
MW-14-Screen-3	Aug 2020	MW-14-3	NA	NA	3.0 U	0.28 UJ
MW-14-Screen-3	Oct/Nov 2020	MW-14-3	NA	NA	3.0 U	0.41 UJ
MW-14-Screen-4						
MW-14-Screen-4	Oct 2019	MW-14-4	NA	NA	1.9 J	2.10
MW-14-Screen-4	Jun 2020	MW-14-4	0.9 J	1.0 U	3.3	0.58
MW-14-Screen-4	Oct/Nov 2020	MW-14-4	NA	NA	2.5 J	2.60
MW-14-Screen-5						
MW-14-Screen-5	Oct 2019	MW-14-5	NA	NA	3.0 U	0.11 J
MW-14-Screen-5	Jun 2020	MW-14-5	2.0 U	1.0 U	3.9	0.04 J
MW-14-Screen-5	Oct/Nov 2020	MW-14-5	NA	NA	3.0 U	0.20 U
MW-15						
MW-15	Oct 2019	MW-15	NA	NA	1.7 J	0.53
MW-15	Feb 2020	MW-15	NA	NA	3.0 U	0.57
MW-15	Jun 2020	MW-15	0.9 J	1.0 U	3.0 U	0.58
MW-15	Jun 2020	Dup-7-2Q2020	0.9 J	1.0 U	3.0 U	0.58
MW-15	Aug 2020	MW-15	NA	NA	7.7	0.60
MW-15	Aug 2020	DUP-6-3Q20	NA	NA	5.2	0.58
MW-15	Oct/Nov 2020	MW-15	NA	NA	7.2	0.30 UJ

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-15	Oct/Nov 2020	DUP-8-4Q20	NA	NA	21.0	0.33 UJ
MW-16						
MW-16	Oct 2019	MW-16	NA	NA	16000.0	0.71
MW-17-Screen-1						
MW-17-Screen-1	Oct 2019	MW-17-1	NA	NA	3.0 U	0.10 J
MW-17-Screen-1	Jun 2020	MW-17-1	2.0 U	1.0 U	3.0 U	0.20 U
MW-17-Screen-2						
MW-17-Screen-2	Oct 2019	MW-17-2	NA	NA	3.0 U	0.20 U
MW-17-Screen-2	Feb 2020	MW-17-2	NA	NA	3.0 U	0.20 U
MW-17-Screen-2	Jun 2020	MW-17-2	2.0 U	1.0 U	3.0 U	0.20 U
MW-17-Screen-2	Jun 2020	Dup-2-2Q2020	2.0 U	1.0 U	3.0 U	0.20 U
MW-17-Screen-2	Aug 2020	MW-17-2	NA	NA	3.0 U	0.20 U
MW-17-Screen-2	Oct/Nov 2020	MW-17-2	NA	NA	0.7 J	0.20 U
MW-17-Screen-3						
MW-17-Screen-3	Oct 2019	MW-17-3	NA	NA	3.0 U	0.20 U
MW-17-Screen-3	Feb 2020	MW-17-3	NA	NA	3.0 U	0.05 J
MW-17-Screen-3	Jun 2020	MW-17-3	2.0 U	0.1 J	3.0 U	0.20 U
MW-17-Screen-3	Aug 2020	MW-17-3	NA	NA	3.0 U	0.20 U
MW-17-Screen-3	Oct/Nov 2020	MW-17-3	NA	NA	1.1 J	0.14 UJ
MW-17-Screen-4						
MW-17-Screen-4	Oct 2019	MW-17-4	NA	NA	1.5 J	1.40
MW-17-Screen-4	Feb 2020	MW-17-4	NA	NA	0.9 J	1.20
MW-17-Screen-4	Jun 2020	MW-17-4	2.0 U	1.0 U	3.0 U	0.59
MW-17-Screen-4	Aug 2020	MW-17-4	NA	NA	1.9 J	1.90
MW-17-Screen-4	Oct/Nov 2020	MW-17-4	NA	NA	1.9 J	1.90
MW-17-Screen-5						
MW-17-Screen-5	Oct 2019	MW-17-5	NA	NA	1.6 J	1.20
MW-17-Screen-5	Jun 2020	MW-17-5	2.0 U	1.0	5.2	1.30
MW-17-Screen-5	Oct/Nov 2020	MW-17-5	NA	NA	3.1	1.90
MW-18-Screen-1						
MW-18-Screen-1	Jun 2020	MW-18-1	2.0 U	1.0 U	3.0 U	0.20
MW-18-Screen-2						
MW-18-Screen-2	Oct 2019	MW-18-2	NA	NA	3.0 U	0.20 U
MW-18-Screen-2	Oct 2019	DUP-7-4Q19	NA	NA	3.0 U	0.20 U
MW-18-Screen-2	Feb 2020	MW-18-2	NA	NA	3.0 U	0.05 J
MW-18-Screen-2	Jun 2020	MW-18-2	2.0 U	1.0 U	3.0 U	0.08 J
MW-18-Screen-2	Aug 2020	MW-18-2	NA	NA	3.0 UJ	0.20 U
MW-18-Screen-2	Oct/Nov 2020	MW-18-2	NA	NA	0.6 J	0.20 U
MW-18-Screen-3						
MW-18-Screen-3	Oct 2019	MW-18-3	NA	NA	1.5 J	1.70
MW-18-Screen-3	Feb 2020	MW-18-3	NA	NA	1.5 J	1.40
MW-18-Screen-3	Jun 2020	MW-18-3	2.0 U	1.0 U	1.2 J	1.60
MW-18-Screen-3	Aug 2020	MW-18-3	NA	NA	1.4 J	1.70
MW-18-Screen-3	Oct/Nov 2020	MW-18-3	NA	NA	1.7 J	1.80

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-18-Screen-4						
MW-18-Screen-4	Oct 2019	MW-18-4	NA	NA	2.3 J	1.90
MW-18-Screen-4	Feb 2020	MW-18-4	NA	NA	2.5 J	2.20
MW-18-Screen-4	Jun 2020	MW-18-4	2.0 U	1.0 U	2.4 J	2.80
MW-18-Screen-4	Aug 2020	MW-18-4	NA	NA	3.3	2.60
MW-18-Screen-4	Oct/Nov 2020	MW-18-4	NA	NA	3.0	2.90
MW-18-Screen-5						
MW-18-Screen-5	Oct 2019	MW-18-5	NA	NA	3.0 U	0.20 U
MW-18-Screen-5	Jun 2020	MW-18-5	2.0 U	1.0 U	3.0 U	0.20 U
MW-18-Screen-5	Oct/Nov 2020	MW-18-5	NA	NA	0.7 J	0.20 U
MW-19-Screen-1						
MW-19-Screen-1	Oct 2019	MW-19-1	NA	NA	3.0 U	0.20 U
MW-19-Screen-1	Jun 2020	MW-19-1	2.0 U	1.0 U	3.0 U	0.20 U
MW-19-Screen-1	Oct/Nov 2020	MW-19-1	NA	NA	3.0 U	0.20 U
MW-19-Screen-2						
MW-19-Screen-2	Oct 2019	MW-19-2	NA	NA	1.5 J	0.91
MW-19-Screen-2	Jun 2020	MW-19-2	2.0 U	1.0 U	1.3 J	1.60
MW-19-Screen-2	Oct/Nov 2020	MW-19-2	NA	NA	3.2	0.43 J
MW-19-Screen-3						
MW-19-Screen-3	Oct 2019	MW-19-3	NA	NA	2.0 J	1.90
MW-19-Screen-3	Jun 2020	MW-19-3	2.0 U	1.0 U	1.9 J	0.89
MW-19-Screen-3	Jun 2020	DUP-1-2Q2020	2.0 U	1.0 U	2.0 J	1.90
MW-19-Screen-3	Oct/Nov 2020	MW-19-3	NA	NA	2.7 J	2.00
MW-19-Screen-3	Oct/Nov 2020	DUP-2-4Q20	NA	NA	2.7 J	2.20
MW-19-Screen-4						
MW-19-Screen-4	Oct 2019	MW-19-4	NA	NA	2.2 J	2.60
MW-19-Screen-4	Oct 2019	DUP-2-4Q19	NA	NA	2.4 J	2.60
MW-19-Screen-4	Jun 2020	MW-19-4	1.4 J	1.0 U	2.2 J	2.60
MW-19-Screen-4	Oct/Nov 2020	MW-19-4	NA	NA	2.6 J	2.60
MW-19-Screen-5						
MW-19-Screen-5	Oct 2019	MW-19-5	NA	NA	2.2 J	1.90
MW-19-Screen-5	Jun 2020	MW-19-5	1.5 J	1.0 U	2.0 J	2.20
MW-19-Screen-5	Oct/Nov 2020	MW-19-5	NA	NA	2.3 J	2.40
MW-20-Screen-2						
MW-20-Screen-2	Oct 2019	MW-20-2	NA	NA	3.0 U	0.20 U
MW-20-Screen-2	Feb 2020	MW-20-2	NA	NA	3.0 U	0.20 U
MW-20-Screen-2	Jun 2020	MW-20-2	2.0 U	1.0 U	3.0 U	0.05 J
MW-20-Screen-2	Aug 2020	MW-20-2	NA	NA	3.0 U	0.12 UJ
MW-20-Screen-2	Oct/Nov 2020	MW-20-2	NA	NA	3.0 U	0.20 U
MW-20-Screen-2	Oct/Nov 2020	DUP-1-4Q20	NA	NA	1.6 J	0.20 U
MW-20-Screen-3						
MW-20-Screen-3	Oct 2019	MW-20-3	NA	NA	3.0 U	0.20 U
MW-20-Screen-3	Feb 2020	MW-20-3	NA	NA	0.6 J	0.20 U
MW-20-Screen-3	Jun 2020	MW-20-3	1.5 J	1.0 U	3.0 U	0.14 J
MW-20-Screen-3	Aug 2020	MW-20-3	NA	NA	3.0 U	0.20 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-20-Screen-3	Oct/Nov 2020	MW-20-3	NA	NA	3.0 U	0.20 U
MW-20-Screen-4						
MW-20-Screen-4	Oct 2019	MW-20-4	NA	NA	3.0 U	0.06 J
MW-20-Screen-4	Oct 2019	Dup-1-4Q19	NA	NA	0.6 J	0.07 J
MW-20-Screen-4	Feb 2020	MW-20-4	NA	NA	3.0 U	0.12 J
MW-20-Screen-4	Jun 2020	MW-20-4	0.8 J	1.0 U	3.0 U	0.12 J
MW-20-Screen-4	Aug 2020	MW-20-4	NA	NA	3.0 U	0.14 UJ
MW-20-Screen-4	Aug 2020	DUP-1-3Q20	NA	NA	3.0 U	0.20 U
MW-20-Screen-4	Oct/Nov 2020	MW-20-4	NA	NA	3.0 U	0.20 U
MW-20-Screen-5						
MW-20-Screen-5	Oct 2019	MW-20-5	NA	NA	3.0 U	0.12 J
MW-20-Screen-5	Feb 2020	MW-20-5	NA	NA	3.0 U	0.06 J
MW-20-Screen-5	Jun 2020	MW-20-5	1.0 J	1.0 U	3.0 U	0.09 J
MW-20-Screen-5	Aug 2020	MW-20-5	NA	NA	0.5 J	0.22 UJ
MW-20-Screen-5	Oct/Nov 2020	MW-20-5	NA	NA	3.0 U	0.20 U
MW-21-Screen-2						
MW-21-Screen-2	Oct 2019	MW-21-2	NA	NA	3.0 U	0.20 U
MW-21-Screen-2	Feb 2020	MW-21-2	NA	NA	3.0 U	0.09 J
MW-21-Screen-2	Jun 2020	MW-21-2	2.0 U	1.0 U	7.0	0.20 U
MW-21-Screen-2	Jun 2020	DUP-6-2Q2020	2.0 U	1.0 U	0.9 J	0.36
MW-21-Screen-2	Aug 2020	MW-21-2	NA	NA	3.0 U	0.18 UJ
MW-21-Screen-2	Oct/Nov 2020	MW-21-2	NA	NA	0.5 J	0.20 U
MW-21-Screen-2	Oct/Nov 2020	DUP-5-4Q20	NA	NA	3.0 U	0.24 UJ
MW-21-Screen-3						
MW-21-Screen-3	Oct 2019	MW-21-3	NA	NA	3.0 U	0.20 U
MW-21-Screen-3	Feb 2020	MW-21-3	NA	NA	3.0 U	0.42
MW-21-Screen-3	Feb 2020	DUP-3-1Q20	NA	NA	3.0 U	0.56
MW-21-Screen-3	Jun 2020	MW-21-3	2.0 U	0.1 J	7.6	0.20 U
MW-21-Screen-3	Aug 2020	MW-21-3	NA	NA	3.0 U	0.33 J
MW-21-Screen-3	Oct/Nov 2020	MW-21-3	NA	NA	3.0 U	0.57
MW-21-Screen-4						
MW-21-Screen-4	Oct 2019	MW-21-4	NA	NA	1.2 J	1.20
MW-21-Screen-4	Oct 2019	DUP-5-4Q19	NA	NA	1.2 J	1.20
MW-21-Screen-4	Feb 2020	MW-21-4	NA	NA	3.0 U	1.20
MW-21-Screen-4	Jun 2020	MW-21-4	2.0 U	1.0 U	1.4 J	1.20
MW-21-Screen-4	Aug 2020	MW-21-4	NA	NA	0.6 J	1.50
MW-21-Screen-4	Aug 2020	DUP-5-3Q20	NA	NA	1.2 J	1.60 J
MW-21-Screen-4	Oct/Nov 2020	MW-21-4	NA	NA	1.4 J	1.60
MW-21-Screen-5						
MW-21-Screen-5	Oct 2019	MW-21-5	NA	NA	1.0 J	1.10
MW-21-Screen-5	Feb 2020	MW-21-5	NA	NA	1.1 J	1.40
MW-21-Screen-5	Jun 2020	MW-21-5	2.0 U	0.2 J	4.8	1.20
MW-21-Screen-5	Aug 2020	MW-21-5	NA	NA	0.8 J	1.40
MW-21-Screen-5	Oct/Nov 2020	MW-21-5	NA	NA	1.0 J	1.40

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-22-Screen-1						
MW-22-Screen-1	Oct 2019	MW-22-1	NA	NA	3.0 U	0.57
MW-22-Screen-1	Feb 2020	MW-22-1	NA	NA	3.0 U	0.36
MW-22-Screen-1	Jun 2020	MW-22-1	2.0 U	1.0 U	0.9 J	0.48
MW-22-Screen-1	Aug 2020	MW-22-1	NA	NA	0.6 J	0.84 J
MW-22-Screen-1	Oct/Nov 2020	MW-22-1	NA	NA	3.0 U	0.72
MW-22-Screen-2						
MW-22-Screen-2	Oct 2019	MW-22-2	NA	NA	1.6 J	1.60
MW-22-Screen-2	Oct 2019	DUP-4-4Q19	NA	NA	0.8 J	0.92
MW-22-Screen-2	Feb 2020	MW-22-2	NA	NA	1.6 J	1.80
MW-22-Screen-2	Jun 2020	MW-22-2	2.0 U	1.0 U	1.4 J	1.30
MW-22-Screen-2	Aug 2020	MW-22-2	NA	NA	1.4 J	1.90
MW-22-Screen-2	Aug 2020	DUP-3-3Q20	NA	NA	1.8 J	1.90 J
MW-22-Screen-2	Oct/Nov 2020	MW-22-2	NA	NA	1.2 J	1.80
MW-22-Screen-3						
MW-22-Screen-3	Oct 2019	MW-22-3	NA	NA	1.2 J	0.94
MW-22-Screen-3	Feb 2020	MW-22-3	NA	NA	2.0 J	2.00
MW-22-Screen-3	Jun 2020	MW-22-3	2.0 U	1.0 U	1.0 J	0.75
MW-22-Screen-3	Aug 2020	MW-22-3	NA	NA	3.0 U	0.54
MW-22-Screen-3	Oct/Nov 2020	MW-22-3	NA	NA	1.4 J	2.50
MW-22-Screen-4						
MW-22-Screen-4	Oct 2019	MW-22-4	NA	NA	2.3 J	2.50
MW-22-Screen-4	Jun 2020	MW-22-4	2.0 U	1.0 U	2.8 J	2.50
MW-22-Screen-4	Oct/Nov 2020	MW-22-4	NA	NA	2.0 J	2.90
MW-22-Screen-5						
MW-22-Screen-5	Oct 2019	MW-22-5	NA	NA	3.0 U	0.11 J
MW-22-Screen-5	Jun 2020	MW-22-5	2.0 U	1.0 U	3.0 U	0.09 J
MW-22-Screen-5	Oct/Nov 2020	MW-22-5	NA	NA	3.0 U	0.20 U
MW-23-Screen-1						
MW-23-Screen-1	Oct 2019	MW-23-1	NA	NA	0.6 J	0.44
MW-23-Screen-1	Feb 2020	MW-23-1	NA	NA	0.6 J	0.18 J
MW-23-Screen-1	Jun 2020	MW-23-1	2.0 U	1.0 U	3.0 U	0.58
MW-23-Screen-1	Aug 2020	MW-23-1	NA	NA	0.6 J	1.00
MW-23-Screen-1	Oct/Nov 2020	MW-23-1	NA	NA	1.3 J	1.30
MW-23-Screen-2						
MW-23-Screen-2	Oct 2019	MW-23-2	NA	NA	0.6 J	0.86
MW-23-Screen-2	Feb 2020	MW-23-2	NA	NA	1.0 J	0.84
MW-23-Screen-2	Jun 2020	MW-23-2	2.0 U	1.0 U	1.2 J	0.94
MW-23-Screen-2	Aug 2020	MW-23-2	NA	NA	0.7 J	1.10 UJ
MW-23-Screen-2	Oct/Nov 2020	MW-23-2	NA	NA	1.3 J	1.10 J
MW-23-Screen-2	Oct/Nov 2020	DUP-4-4Q20	NA	NA	1.5 J	1.30 J
MW-23-Screen-3						
MW-23-Screen-3	Oct 2019	MW-23-3	NA	NA	2.6 J	2.60
MW-23-Screen-3	Feb 2020	MW-23-3	NA	NA	2.8 J	2.60
MW-23-Screen-3	Jun 2020	MW-23-3	2.0 U	1.0 U	3.2	2.30

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-23-Screen-3	Jun 2020	Dup-3-2Q2020	2.0 U	1.0 U	3.5	2.90
MW-23-Screen-3	Aug 2020	MW-23-3	NA	NA	2.3 J	3.10
MW-23-Screen-3	Oct/Nov 2020	MW-23-3	NA	NA	2.7 J	2.80
MW-23-Screen-4						
MW-23-Screen-4	Oct 2019	MW-23-4	NA	NA	2.4 J	2.90
MW-23-Screen-4	Feb 2020	MW-23-4	NA	NA	2.9 J	2.70
MW-23-Screen-4	Jun 2020	MW-23-4	1.7 J	1.0 U	3.4	2.60
MW-23-Screen-4	Aug 2020	MW-23-4	NA	NA	2.4 J	2.80
MW-23-Screen-4	Oct/Nov 2020	MW-23-4	NA	NA	3.1	3.60 J
MW-23-Screen-5						
MW-23-Screen-5	Oct 2019	MW-23-5	NA	NA	3.0 U	0.20 U
MW-23-Screen-5	Jun 2020	MW-23-5	2.0	0.1 J	3.0 U	0.20 U
MW-23-Screen-5	Oct/Nov 2020	MW-23-5	NA	NA	2.3 J	0.20 U
MW-24-Screen-1						
MW-24-Screen-1	Oct 2019	MW-24-1	NA	NA	3.6	0.11 J
MW-24-Screen-1	Feb 2020	MW-24-1	NA	NA	0.9 J	0.20 U
MW-24-Screen-1	Jun 2020	MW-24-1	2.0 U	1.0 U	1.1 J	0.14 J
MW-24-Screen-1	Aug 2020	MW-24-1	NA	NA	3.3	0.20 U
MW-24-Screen-1	Oct/Nov 2020	MW-24-1	NA	NA	0.7 J	0.24
MW-24-Screen-2						
MW-24-Screen-2	Oct 2019	MW-24-2	NA	NA	2.1 J	2.10
MW-24-Screen-2	Feb 2020	MW-24-2	NA	NA	1.9 J	2.00
MW-24-Screen-2	Feb 2020	DUP-5-1Q20	NA	NA	2.2 J	2.00
MW-24-Screen-2	Jun 2020	MW-24-2	2.0 U	1.0 U	3.0 U	2.20
MW-24-Screen-2	Aug 2020	MW-24-2	NA	NA	2.3 J	2.50
MW-24-Screen-2	Aug 2020	DUP-4-3Q20	NA	NA	2.7 J	2.40
MW-24-Screen-2	Oct/Nov 2020	MW-24-2	NA	NA	2.0 J	0.20 U
MW-24-Screen-3						
MW-24-Screen-3	Oct 2019	MW-24-3	NA	NA	3.0 U	0.04 J
MW-24-Screen-3	Feb 2020	MW-24-3	NA	NA	3.0 U	0.20 U
MW-24-Screen-3	Jun 2020	MW-24-3	1.3 J	1.0 U	3.0 U	0.20 U
MW-24-Screen-3	Aug 2020	MW-24-3	NA	NA	3.0 U	0.20 U
MW-24-Screen-3	Oct/Nov 2020	MW-24-3	NA	NA	3.0 U	0.09 UJ
MW-24-Screen-3	Oct/Nov 2020	DUP-3-4Q20	NA	NA	3.0 U	0.20 U
MW-24-Screen-4						
MW-24-Screen-4	Oct 2019	MW-24-4	NA	NA	3.0 U	0.08 J
MW-24-Screen-4	Feb 2020	MW-24-4	NA	NA	3.0 U	0.20 U
MW-24-Screen-4	Jun 2020	MW-24-4	2.0 U	0.1 J	0.9 J	0.20 U
MW-24-Screen-4	Aug 2020	MW-24-4	NA	NA	3.0 U	0.03 J
MW-24-Screen-4	Oct/Nov 2020	MW-24-4	NA	NA	3.0 U	0.10 UJ
MW-24-Screen-5						
MW-24-Screen-5	Oct 2019	MW-24-5	NA	NA	3.1	2.50
MW-24-Screen-5	Jun 2020	MW-24-5	2.3	0.1 J	3.1	2.30
MW-24-Screen-5	Oct/Nov 2020	MW-24-5	NA	NA	1.8 J	2.60

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-25-Screen-1						
MW-25-Screen-1	Oct 2019	MW-25-1	NA	NA	1.3 J	0.30
MW-25-Screen-1	Feb 2020	MW-25-1	NA	NA	1.6 J	0.20 U
MW-25-Screen-1	Jun 2020	MW-25-1	2.0 U	1.0 U	1.6 J	0.20 U
MW-25-Screen-1	Aug 2020	MW-25-1	NA	NA	3.0 U	0.71
MW-25-Screen-1	Aug 2020	DUP-2-3Q20	NA	NA	3.0 U	0.70
MW-25-Screen-1	Oct/Nov 2020	MW-25-1	NA	NA	2.4 J	0.66
MW-25-Screen-2						
MW-25-Screen-2	Oct 2019	MW-25-2	NA	NA	1.2 J	1.00
MW-25-Screen-2	Feb 2020	MW-25-2	NA	NA	3.6	2.80
MW-25-Screen-2	Jun 2020	MW-25-2	1.1 J	1.0 U	3.2	2.80
MW-25-Screen-2	Aug 2020	MW-25-2	NA	NA	3.0 U	1.40
MW-25-Screen-2	Oct/Nov 2020	MW-25-2	NA	NA	2.6 J	1.80
MW-25-Screen-3						
MW-25-Screen-3	Oct 2019	MW-25-3	NA	NA	1.9 J	2.50
MW-25-Screen-3	Oct 2019	DUP-3-4Q19	NA	NA	3.9	2.50
MW-25-Screen-3	Feb 2020	MW-25-3	NA	NA	3.3	3.70
MW-25-Screen-3	Jun 2020	MW-25-3	1.2 J	1.0 U	3.0	3.20
MW-25-Screen-3	Aug 2020	MW-25-3	NA	NA	3.0 U	2.50 J
MW-25-Screen-3	Oct/Nov 2020	MW-25-3	NA	NA	3.2	3.00 J
MW-25-Screen-4						
MW-25-Screen-4	Oct 2019	MW-25-4	NA	NA	0.9 J	0.44
MW-25-Screen-4	Feb 2020	MW-25-4	NA	NA	1.8 J	0.90
MW-25-Screen-4	Jun 2020	MW-25-4	1.2 J	1.0 U	3.6	0.96
MW-25-Screen-4	Aug 2020	MW-25-4	NA	NA	3.0 U	0.74
MW-25-Screen-4	Oct/Nov 2020	MW-25-4	NA	NA	1.4 J	0.72 J
MW-25-Screen-5						
MW-25-Screen-5	Oct 2019	MW-25-5	NA	NA	3.0 U	0.05 J
MW-25-Screen-5	Feb 2020	MW-25-5	NA	NA	3.0 U	0.04 J
MW-25-Screen-5	Feb 2020	DUP-1-1Q20	NA	NA	3.0 U	0.05 J
MW-25-Screen-5	Jun 2020	MW-25-5	0.8 J	1.0 U	3.0 U	0.20 U
MW-25-Screen-5	Aug 2020	MW-25-5	NA	NA	3.0 U	0.20 U
MW-25-Screen-5	Oct/Nov 2020	MW-25-5	NA	NA	0.6 J	0.20 U
MW-26-Screen-1						
MW-26-Screen-1	Oct 2019	MW-26-1	NA	NA	3.0 U	0.20 U
MW-26-Screen-1	Feb 2020	MW-26-1	NA	NA	3.0 U	0.40
MW-26-Screen-1	Jun 2020	MW-26-1	2.0 U	1.0 U	3.0 U	0.34
MW-26-Screen-1	Aug 2020	MW-26-1	NA	NA	3.0 UJ	0.30
MW-26-Screen-1	Oct/Nov 2020	MW-26-1	NA	NA	0.5 J	0.46 J
MW-26-Screen-2						
MW-26-Screen-2	Oct 2019	MW-26-2	NA	NA	1.1 J	0.42
MW-26-Screen-2	Feb 2020	MW-26-2	NA	NA	0.5 J	0.20 U
MW-26-Screen-2	Jun 2020	MW-26-2	2.0 U	1.0 U	3.0 U	0.20 U
MW-26-Screen-2	Aug 2020	MW-26-2	NA	NA	2.4 J	0.54
MW-26-Screen-2	Oct/Nov 2020	MW-26-2	NA	NA	2.4 J	0.69

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
Analyte concentration exceeds the standard for:						
CA MCL			10.0	15.0*	50.0	50.0**
EPA REGION IX MCL			10.0	15.0*	100.0	NE
Notes						
DUP(E)	Field Duplicate					
NA	Not analyzed					
NE	Not established					
*	Regulatory Action Level					
**	Due to a court ruling, the State Water Resources Control Board adopted a resolution on August 1, 2017 to remove the current maximum contaminant level (MCL[10.0 µg/L]) for CrVI. CrVI is regulated under the 50.0 µg/L MCL for total chromium."					
J	Analyte concentration is an estimated value					
U	Analyte was analyzed for but not detected at or above the stated limit					
UJ	Analyte was analyzed for but not detected; analyte concentration is an estimated value					

TABLE 3
SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE REPORTED IN MUNICIPAL
PRODUCTION WELLS NEAR JPL DURING THE LAST FIVE SAMPLING EVENTS OF THE
LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM

(All concentrations reported in µg/L.)

(Shaded values exceed State or Federal MCLs or action levels.)

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
LA CANADA IRRIGATION DIST. WELL 06					
LAS FLORES WATER CO. WELL 02					
	7/1/2019		NA	2.1	NA
	7/8/2019	4.0 U	NA	1.7	NA
	7/15/2019	4.4	NA	1.9	NA
	7/22/2019	4.3	NA	1.1	NA
	7/29/2019	4.6	NA	1.8	NA
	8/5/2019	4.4	NA	2.1	NA
	8/12/2019	4.0 U	NA	1.7	NA
	8/19/2019	4.0 U	NA	1.8	NA
	9/3/2019	4.2	NA	2.1	NA
	9/9/2019	4.1	NA	1.4	NA
	9/16/2019	4.7	NA	1.4	NA
	9/23/2019	4.2	NA	1.2	NA
	9/30/2019	4.1	NA	1.0	NA
	10/7/2019	4.6	NA	2.4	NA
	10/14/2019	4.5	NA	2.1	NA
	10/21/2019	4.5	NA	1.6	NA
	10/28/2019	4.4	NA	1.8	NA
	11/4/2019	4.0 U	NA	1.1	NA
	11/11/2019	4.3	NA	1.8	NA
	11/18/2019	4.7	NA	2.1	NA
	11/25/2019	4.3	NA	2.1	NA
	12/2/2019	4.3	NA	1.4	NA
	12/9/2019	4.0 U	NA	1.3	NA
	12/16/2019	4.0 U	0.5 U	1.6	0.5 U
	12/23/2019	4.4	NA	1.5	NA
	12/30/2019	4.3	NA	1.7	NA
	1/6/2020	4.0 U	NA	2.8	NA
	1/13/2020	4.0	NA	1.6	NA
	1/20/2020	4.6	NA	2.2	NA
	1/27/2020	4.3	NA	2.2	NA
	2/3/2020	4.3	NA	2.4	NA
	2/10/2020	4.1	NA	2.6	NA
	2/18/2020	5.1	NA	2.6	NA
	2/24/2020	4.2	NA	2.0	NA
	3/2/2020	4.7	NA	2.3	NA
	3/9/2020	4.0 U	NA	2.1	NA
	3/16/2020	4.2	NA	2.1	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	3/23/2020	4.3	NA	1.6	NA
	3/30/2020	4.0 U	NA	1.9	NA
	4/6/2020	4.0 U	NA	2.3	NA
	4/13/2020	4.0 U	NA	2.4	NA
	4/20/2020	4.0 U	NA	2.0	NA
	4/27/2020	4.6	NA	2.2	NA
	5/4/2020	4.0 U	NA	1.9	NA
	5/11/2020	4.0 U	NA	2.4	NA
	5/18/2020	4.0 U	NA	2.1	NA
	5/26/2020	4.0	NA	1.8	NA
	6/1/2020	4.0 U	NA	2.0	NA
	6/8/2020	4.0 U	NA	2.4	NA
	6/22/2020	4.1	NA	2.8	NA
	6/29/2020	4.8	NA	2.2	NA
	7/6/2020	4.0	NA	2.7	NA
	7/13/2020	5.3	NA	2.0	NA
	7/20/2020	4.0 U	NA	3.0	NA
	7/27/2020	4.3	NA	1.9	NA
	8/3/2020	4.1	NA	2.7	NA
	8/10/2020	4.6	NA	2.6	NA
	8/17/2020	4.0 U	NA	2.8	NA
	8/24/2020	4.0 U	NA	2.7	NA
	8/31/2020	4.3	NA	1.8	NA
	9/8/2020	4.4	NA	2.3	NA
	9/14/2020	4.9	NA	2.5	NA
	9/21/2020	4.2	NA	1.9	NA
	9/28/2020	4.1	NA	1.5	NA
	10/5/2020	5.1	NA	2.3	NA
	10/12/2020	4.0 U	NA	2.4	NA
	10/19/2020	4.0 U	NA	2.4	NA
	10/26/2020	4.0 U	NA	2.5	NA
	11/2/2020	4.0 U	NA	1.6	NA
	11/9/2020	4.0 U	NA	1.5	NA
	11/16/2020	4.1	NA	1.7	NA
	11/23/2020	4.4	NA	1.6	NA
	11/30/2020	4.0 U	NA	1.6	NA
LINCOLN AVENUE WATER CO. WELL 03					
	10/13/2020	4.0 U	NA	NA	NA
LINCOLN AVENUE WATER CO. WELL 05					
	7/2/2019	11.0	1.9	0.7	2.0
	7/9/2019	11.0	NA	NA	NA
	2/12/2020	5.2	5.0	0.5 U	0.5 U
	2/18/2020	7.4	NA	NA	NA
	2/19/2020	NA	2.3	0.5	0.9
	8/19/2020	4.0	5.0	0.5 U	0.5 U
LINCOLN AVENUE WATER CO. WELL #6					

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	7/11/2019	7.5	0.5 U	0.7	1.9
	7/16/2019	11.0	NA	NA	NA
	7/23/2019	11.0	NA	NA	NA
	7/30/2019	11.0	NA	NA	NA
	8/6/2019	11.0	2.1	0.7	1.7
	8/13/2019	11.0	NA	NA	NA
	8/20/2019	11.0	NA	NA	NA
	9/3/2019	10.0	2.3	0.7	1.4
	9/10/2019	12.0	NA	NA	NA
	9/17/2019	10.0	NA	NA	NA
	9/24/2019	11.0	NA	NA	NA
	10/1/2019	11.0	1.7	0.6	1.1
	10/8/2019	10.0	NA	NA	NA
	10/15/2019	10.0	NA	NA	NA
	10/21/2019	9.8	NA	NA	NA
	10/29/2019	9.8	NA	NA	NA
	11/5/2019	9.7	1.8	0.7	1.2
	11/12/2019	9.6	NA	NA	NA
	11/19/2019	9.9	NA	NA	NA
	11/26/2019	9.5	NA	NA	NA
	12/3/2019	9.2	1.8	0.5	1.1
	12/12/2019	9.7	NA	NA	NA
	12/17/2019	9.1	NA	NA	NA
	12/24/2019	9.4	NA	NA	NA
	12/31/2019	10.0	NA	NA	NA
	1/7/2020	9.6	2.6	0.7	1.4
	1/15/2020	9.7	NA	NA	NA
	1/21/2020	9.5	NA	NA	NA
	1/28/2020	9.5	NA	NA	NA
	2/4/2020	8.9	1.8	0.6	1.2
	2/11/2020	9.5	NA	NA	NA
	2/25/2020	11.0	NA	NA	NA
	3/4/2020	9.7	1.9	0.6	1.4
	3/10/2020	9.0	NA	NA	NA
	3/17/2020	10.0	NA	NA	NA
	3/24/2020	9.0	NA	NA	NA
	3/31/2020	9.1	NA	NA	NA
	4/8/2020	8.7	1.8	0.5	1.2
	4/14/2020	9.6	NA	NA	NA
	4/21/2020	9.5	NA	NA	NA
	4/28/2020	8.4	NA	NA	NA
	5/6/2020	7.4	2.1	0.6	1.3
	5/13/2020	8.2	NA	NA	NA
	5/19/2020	7.3	NA	NA	NA
	5/26/2020	7.3	NA	NA	NA
	6/2/2020	7.2	2.1	0.6	1.3

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	6/9/2020	8.3	NA	NA	NA
	6/16/2020	7.8	NA	NA	NA
	6/23/2020	8.2	NA	NA	NA
	6/30/2020	9.8	NA	NA	NA
	7/7/2020	9.2	1.6	0.6	1.3
	7/14/2020	8.3	NA	NA	NA
	7/21/2020	8.3	NA	NA	NA
	7/28/2020	8.2	NA	NA	NA
	8/4/2020	7.7	1.6	0.5	1.0
	8/11/2020	9.3	NA	NA	NA
	8/18/2020	7.8	NA	NA	NA
	8/25/2020	7.5	NA	NA	NA
	9/1/2020	7.0	0.6	0.6	1.2
	9/8/2020	7.2	NA	NA	NA
	9/15/2020	7.8	NA	NA	NA
	9/22/2020	7.1	NA	NA	NA
	9/29/2020	6.3	NA	NA	NA
	10/6/2020	7.2	1.7	0.5	1.2
	10/14/2020	6.9	NA	NA	NA
	10/20/2020	6.8	NA	NA	NA
	10/27/2020	7.6	NA	NA	NA
	11/3/2020	6.8	1.6	0.5 U	1.0
	11/4/2020	NA	1.5	0.5	1.1
	11/10/2020	7.3	NA	NA	NA
	11/17/2020	6.8	NA	NA	NA
	11/24/2020	6.6	NA	NA	NA
PASADENA-CITY, WATER DEPT. ARROYO					
	7/2/2019	7.5	0.7	0.5 U	1.4
	7/9/2019	7.5	0.8	0.5 U	1.4
	7/16/2019	7.9	0.9	0.6	1.7
	7/22/2019	7.4	0.8	0.5 U	1.3
	7/30/2019	8.4	0.8	0.5 U	1.5
	9/3/2019	8.6	0.8	0.5 U	1.4
	9/10/2019	8.8	0.7	0.5 U	1.2
	9/17/2019	8.5	1.0	0.5 U	1.6
	9/24/2019	8.7	0.8	0.5 U	1.4
	10/1/2019	7.9	0.8	0.5 U	1.5
	10/7/2019	NA	0.5 U	0.7	3.2
	10/8/2019	8.1	0.9	0.5 U	1.5
	10/15/2019	7.8	0.7	0.5 U	1.3
	10/21/2019	7.1	0.6	0.5 U	1.0
	10/29/2019	6.2	0.8	0.5 U	1.4
	11/5/2019	8.0	0.7	0.5 U	1.4
	11/12/2019	6.1	0.8	0.5 U	1.3
	11/19/2019	6.8	0.8	0.5 U	1.5
	11/26/2019	7.9	0.8	0.5	1.6

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	12/3/2019	9.1	0.7	0.5	1.5
	12/10/2019	7.3	0.8	0.5 U	1.5
	12/17/2019	6.9	0.8	0.6	1.6
	12/24/2019	7.2	0.9	0.5	1.5
	12/31/2019	7.4	0.8	0.5 U	1.3
	1/7/2020	8.1	0.8	0.5	1.4
	1/14/2020	7.6	0.8	0.5 U	1.4
	1/21/2020	8.3	0.8	0.5	1.4
	1/28/2020	7.0	0.8	0.5 U	1.4
	2/4/2020	8.5	0.8	0.5 U	1.5
	2/11/2020	7.6	0.8	0.5 U	1.4
	2/18/2020	9.5	0.8	0.5	1.3
	2/25/2020	8.1	0.9	0.5	1.4
	3/3/2020	10.2	1.0	0.5 U	1.3
	3/10/2020	8.5	0.9	0.5 U	1.2
	3/17/2020	6.2	1.0	0.5 U	1.3
	3/24/2020	8.3	1.0	0.5	1.3
	3/31/2020	7.8	1.0	0.5	1.3
	4/8/2020	7.7	0.8	0.5 U	0.9
	4/14/2020	7.1	0.8	0.5 U	0.9
	4/21/2020	7.1	1.0	0.5 U	1.3
	4/28/2020	7.7	0.9	0.5 U	1.0
	5/5/2020	7.4	1.0	0.5	1.1
	5/12/2020	7.9	1.0	0.5 U	0.5 U
	5/19/2020	7.5	0.9	0.5 U	0.9
	5/27/2020	7.4	1.0	0.5 U	1.0
	6/2/2020	7.8	1.1	0.5 U	1.1
	6/9/2020	7.8	1.1	0.5 U	1.1
	6/16/2020	8.6	1.1	0.5 U	1.1
	6/23/2020	7.3	1.1	0.5	1.1
	6/30/2020	7.6	1.1	0.5 U	1.2
	7/7/2020	8.0	1.1	0.5 U	1.0
	7/14/2020	7.9	1.2	0.5 U	1.0
	7/21/2020	8.2	1.1	0.5 U	1.0
	7/28/2020	8.5	1.2	0.5 U	1.1
	8/4/2020	8.5	1.3	0.5 U	1.0
	8/11/2020	8.9	1.1	0.5 U	1.0
	8/18/2020	8.0	1.2	0.5 U	1.1
	8/25/2020	9.6	1.2	0.5 U	1.1
	9/1/2020	7.5	1.0	0.5 U	1.0
	9/8/2020	8.2	1.0	0.5 U	1.1
	9/15/2020	8.6	1.1	0.5 U	1.0
	9/22/2020	8.0	1.1	0.5 U	1.0
	9/29/2020	8.9	1.0	0.5 U	1.0
	10/6/2020	8.5	1.0	0.5 U	0.9
	10/14/2020	9.3	1.1	0.5 U	1.0

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	10/20/2020	7.9	1.3	0.5 U	1.1
	10/27/2020	9.5	1.2	0.5 U	1.1
	11/3/2020	8.0	1.3	0.5 U	1.0
	11/10/2020	8.5	1.4	0.6	1.1
	11/17/2020	8.4	1.4	0.5	1.2
	11/24/2020	7.5	NA	NA	NA
PASADENA-CITY, WATER DEPT. VENTURA					
	7/1/2019	4.1	0.5 U	1.2	3.4
	7/15/2019	4.4	0.5 U	1.3	3.4
	9/16/2019	4.5	0.5 U	1.1	2.9
	9/23/2019	4.4	0.5 U	1.3	3.5
	9/30/2019	NA	0.5 U	1.3	3.3
	10/14/2019	4.9	0.5 U	1.1	3.2
	10/28/2019	4.0 U	0.5 U	1.3	3.2
	11/18/2019	4.0 U	0.5 U	1.4	3.3
	12/2/2019	4.4	0.5 U	1.4	3.7
PASADENA-CITY, WATER DEPT. WELL 52					
	7/8/2019	4.0 U	0.5 U	0.7	3.1
	7/24/2019	4.0 U	0.5 U	0.7	3.2
	9/9/2019	5.0	0.5 U	0.7	3.1
	10/7/2019	4.0 U	0.5 U	0.7	3.2
	11/25/2019	4.3	0.5 U	0.8	3.1
	12/9/2019	4.0 U	0.5 U	0.7	3.3
	12/16/2019	4.0 U	0.5 U	0.8	3.3
	12/24/2019	4.0 U	0.5 U	0.8	3.0
	12/31/2019	4.0 U	0.5 U	0.8	3.1
	1/7/2020	4.0 U	0.5 U	0.8	3.2
	1/14/2020	4.0 U	0.5 U	0.6	2.3
	1/21/2020	4.0 U	0.5 U	0.8	3.3
	2/7/2020	4.0 U	0.5 U	0.5 U	1.8
	2/11/2020	4.0 U	0.5 U	0.8	3.2
	2/18/2020	4.0 U	0.5 U	0.5	2.4
	2/25/2020	4.2	0.5 U	0.8	3.2
	3/3/2020	5.3	0.5 U	0.8	3.5
	3/10/2020	4.0 U	0.5 U	0.5	2.2
	3/17/2020	4.3	0.5 U	0.8	3.0
	3/24/2020	4.3	0.5 U	0.8	3.0
	3/31/2020	4.0 U	0.5 U	0.8	2.9
	4/8/2020	4.0 U	0.5 U	0.7	2.9
	4/14/2020	4.8	0.5 U	0.8	2.9
	4/21/2020	4.1	0.5 U	0.8	2.9
	4/28/2020	4.0 U	0.5 U	0.7	2.7
	5/5/2020	4.0 U	0.5 U	0.9	2.9
	5/12/2020	4.0 U	0.5 U	0.6	2.3
	5/19/2020	4.0 U	0.5 U	0.8	2.6
5/27/2020	4.0 U	0.5 U	0.8	2.6	

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	6/2/2020	4.0 U	0.5 U	0.7	2.6
	6/9/2020	4.3	0.5 U	0.8	2.5
	6/16/2020	4.0 U	0.5 U	0.8	2.5
	6/23/2020	4.0 U	0.5 U	0.8	2.6
	6/30/2020	4.0 U	0.5 U	0.8	2.2
	7/7/2020	4.0 U	0.5 U	0.7	2.3
	7/14/2020	4.0 U	0.5 U	0.7	2.4
	7/21/2020	4.0 U	0.5 U	0.7	2.3
	7/28/2020	4.0 U	0.5 U	0.7	2.3
	8/4/2020	4.0 U	0.5 U	0.7	2.4
	8/11/2020	4.0 U	0.5 U	0.8	2.4
	8/18/2020	4.0 U	0.5 U	0.7	2.4
	8/25/2020	4.2	0.5 U	0.8	2.5
	9/1/2020	4.0 U	0.5 U	0.7	2.3
	9/8/2020	4.0 U	0.5 U	0.8	2.3
	9/15/2020	4.0 U	0.5 U	0.7	2.3
	9/22/2020	4.0 U	0.5 U	0.8	2.4
	9/29/2020	4.0 U	0.5 U	0.8	2.3
	10/6/2020	4.0 U	0.5 U	0.7	2.2
	10/14/2020	4.0 U	0.5 U	0.8	2.2
	10/20/2020	4.0 U	0.5 U	0.8	2.3
	10/27/2020	4.1	0.5 U	0.8	2.3
	11/3/2020	4.0 U	0.5 U	0.8	2.1
	11/10/2020	4.0 U	0.5 U	0.9	2.3
	11/17/2020	4.0 U	0.5 U	0.9	2.3
	11/24/2020	4.0 U	NA	NA	NA
RUBIO CANON LAND & WATER ASSOCIATION WELL 04					
	7/1/2019	4.0 U	NA	NA	NA
	7/8/2019	4.0 U	NA	NA	NA
	7/15/2019	4.0 U	NA	3.4	NA
	7/22/2019	4.0 U	NA	NA	NA
	7/29/2019	4.0 U	NA	NA	NA
	8/5/2019	4.0 U	NA	NA	NA
	8/12/2019	4.0 U	NA	NA	NA
	8/19/2019	4.0 U	NA	NA	NA
	9/3/2019	4.0 U	NA	NA	NA
	9/9/2019	4.0 U	NA	NA	NA
	9/16/2019	4.0 U	NA	NA	NA
	9/23/2019	4.0 U	NA	NA	NA
	9/30/2019	4.0 U	NA	NA	NA
	10/7/2019	4.0 U	NA	4.6	NA
	10/14/2019	4.0 U	NA	NA	NA
	10/21/2019	4.0 U	NA	NA	NA
	10/28/2019	4.0 U	NA	NA	NA
	11/4/2019	4.0 U	NA	NA	NA
	11/12/2019	4.0 U	NA	NA	NA

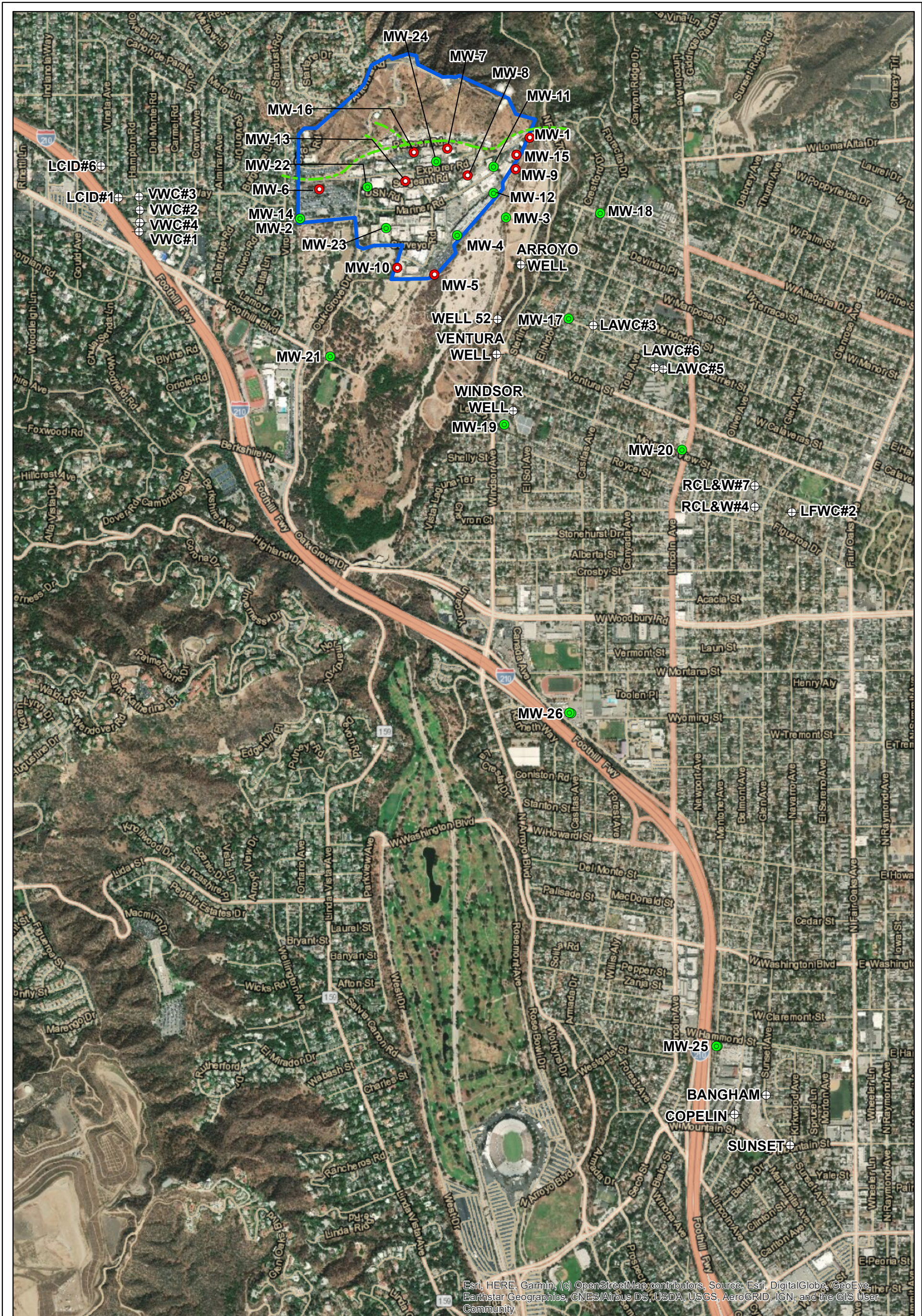
Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	11/18/2019	4.0 U	NA	NA	NA
	11/25/2019	4.0 U	NA	NA	NA
	12/2/2019	4.0 U	NA	NA	NA
	12/9/2019	4.0 U	NA	NA	NA
	12/16/2019	4.0 U	NA	NA	NA
	12/23/2019	4.0 U	NA	NA	NA
	12/30/2019	4.0 U	NA	NA	NA
	1/6/2020	4.0 U	NA	5.0	NA
	1/13/2020	4.0 U	NA	NA	NA
	1/21/2020	4.0 U	NA	NA	NA
	1/27/2020	4.0 U	NA	NA	NA
	2/3/2020	NA	0.5 U	4.3	0.5 U
	2/4/2020	4.0 U	NA	NA	NA
	2/10/2020	4.0 U	NA	NA	NA
	2/18/2020	4.0 U	NA	NA	NA
	2/24/2020	4.0 U	NA	NA	NA
	3/2/2020	4.0 U	NA	NA	NA
	3/9/2020	4.0 U	NA	NA	NA
	3/16/2020	4.0 U	NA	NA	NA
	3/23/2020	4.0 U	NA	NA	NA
	3/30/2020	4.0 U	NA	NA	NA
	4/6/2020	4.0 U	NA	2.0	NA
	4/13/2020	4.0 U	NA	NA	NA
	4/20/2020	4.0 U	NA	NA	NA
	4/27/2020	4.0 U	NA	NA	NA
	5/4/2020	4.0 U	NA	NA	NA
	5/11/2020	4.0 U	NA	NA	NA
	5/18/2020	4.0 U	NA	NA	NA
	5/26/2020	4.0 U	NA	NA	NA
	6/1/2020	4.0 U	NA	NA	NA
	6/8/2020	4.0 U	NA	NA	NA
	6/15/2020	4.0 U	NA	NA	NA
	6/22/2020	4.0 U	NA	NA	NA
	6/29/2020	4.0 U	NA	NA	NA
	7/6/2020	4.0 U	NA	4.3	NA
	7/13/2020	4.0 U	NA	NA	NA
	7/20/2020	4.0 U	NA	NA	NA
	7/27/2020	4.0 U	NA	NA	NA
	8/3/2020	4.0 U	NA	NA	NA
	8/10/2020	4.0 U	NA	NA	NA
	8/17/2020	4.0 U	NA	NA	NA
	8/24/2020	4.0 U	NA	NA	NA
	8/31/2020	4.0 U	NA	NA	NA
	9/8/2020	4.0 U	NA	NA	NA
	9/14/2020	4.0 U	NA	NA	NA
	9/21/2020	4.0 U	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	9/28/2020	4.0 U	NA	NA	NA
	10/5/2020	4.0 U	NA	6.4	NA
	10/12/2020	4.0 U	NA	NA	NA
	10/19/2020	4.0 U	NA	NA	NA
	10/26/2020	4.0 U	NA	NA	NA
	11/2/2020	4.0 U	NA	NA	NA
	11/9/2020	4.0 U	NA	NA	NA
	11/16/2020	4.0 U	NA	NA	NA
	11/23/2020	4.0 U	NA	NA	NA
	11/30/2020	4.0 U	NA	NA	NA
RUBIO CANON LAND & WATER ASSOCIATION WELL 07					
	7/1/2019	4.0 U	NA	NA	NA
	7/8/2019	4.0 U	NA	NA	NA
	7/15/2019	4.0 U	NA	0.6	NA
	7/22/2019	4.0 U	NA	NA	NA
	7/29/2019	4.0 U	NA	NA	NA
	8/5/2019	4.0 U	NA	NA	NA
	8/12/2019	4.0 U	NA	NA	NA
	8/19/2019	4.0 U	NA	NA	NA
	9/3/2019	4.0 U	NA	NA	NA
	9/9/2019	4.0 U	NA	NA	NA
	9/16/2019	4.0 U	NA	NA	NA
	9/23/2019	4.0 U	NA	NA	NA
	9/30/2019	4.0 U	NA	NA	NA
	10/7/2019	4.0 U	NA	0.7	NA
	10/14/2019	4.0 U	NA	NA	NA
	10/21/2019	4.0 U	NA	NA	NA
	10/28/2019	4.0 U	NA	NA	NA
	11/4/2019	4.0 U	NA	NA	NA
	11/12/2019	4.0 U	NA	NA	NA
	11/18/2019	4.0 U	NA	NA	NA
	11/25/2019	4.0 U	NA	NA	NA
	12/2/2019	4.0 U	NA	NA	NA
	12/9/2019	4.0 U	NA	NA	NA
	12/16/2019	4.0 U	NA	NA	NA
	12/23/2019	4.0 U	NA	NA	NA
	12/30/2019	4.0 U	NA	NA	NA
	1/6/2020	4.0 U	NA	0.8	NA
	1/13/2020	4.0 U	NA	NA	NA
	1/21/2020	4.0 U	NA	NA	NA
	1/27/2020	4.0 U	NA	NA	NA
	2/3/2020	NA	0.5 U	0.6	0.5 U
	2/4/2020	4.0 U	NA	NA	NA
2/10/2020	4.0 U	NA	NA	NA	
2/18/2020	4.0 U	NA	NA	NA	
2/24/2020	4.0 U	NA	NA	NA	

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	3/2/2020	4.0 U	NA	NA	NA
	3/9/2020	4.0 U	NA	NA	NA
	3/16/2020	4.0 U	NA	NA	NA
	3/23/2020	4.0 U	NA	NA	NA
	3/30/2020	4.0 U	NA	NA	NA
	4/6/2020	4.0 U	NA	0.5 U	NA
	4/13/2020	4.0 U	NA	NA	NA
	4/20/2020	4.0 U	NA	NA	NA
	4/27/2020	4.0 U	NA	NA	NA
	5/4/2020	4.0 U	NA	NA	NA
	5/11/2020	4.0 U	NA	NA	NA
	5/18/2020	4.0 U	NA	NA	NA
	5/26/2020	4.0 U	NA	NA	NA
	6/1/2020	4.0 U	NA	NA	NA
	6/8/2020	4.0 U	NA	NA	NA
	6/15/2020	4.0 U	NA	NA	NA
	6/22/2020	4.0 U	NA	NA	NA
	6/29/2020	4.0 U	NA	NA	NA
	7/6/2020	4.0 U	NA	0.7	NA
	7/13/2020	4.0 U	NA	NA	NA
	7/20/2020	4.0 U	NA	NA	NA
	7/27/2020	4.0 U	NA	NA	NA
	8/3/2020	4.0 U	NA	NA	NA
	8/10/2020	4.0 U	NA	NA	NA
	8/17/2020	4.0 U	NA	NA	NA
	8/24/2020	4.0 U	NA	NA	NA
	8/31/2020	4.0 U	NA	NA	NA
	9/8/2020	4.0 U	NA	NA	NA
	9/14/2020	4.0 U	NA	NA	NA
	9/21/2020	4.0 U	NA	NA	NA
	9/28/2020	4.0 U	NA	NA	NA
	10/5/2020	4.0 U	NA	0.7	NA
	10/12/2020	4.0 U	NA	NA	NA
	10/19/2020	4.0 U	NA	0.7	NA
	10/26/2020	4.0 U	NA	NA	NA
	11/2/2020	4.0 U	NA	NA	NA
	11/9/2020	4.0 U	NA	NA	NA
	11/16/2020	4.0 U	NA	NA	NA
	11/23/2020	4.0 U	NA	NA	NA
	11/30/2020	4.0 U	NA	NA	NA
VALLEY WATER CO. WELL 01					
	7/2/2019	4.0 U	0.5 U	1.1	1.3
	9/3/2019	4.0 U	0.5 U	0.9	1.2
	10/2/2019	4.0 U	0.5 U	1.1	1.4
	6/3/2020	4.0 U	0.5 U	1.3	1.6
	7/1/2020	4.0 U	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	7/2/2020	NA	0.5 U	1.2	1.5
	8/4/2020	4.0 U	0.5 U	1.0	1.3
	9/9/2020	4.0 U	0.5 U	0.9	1.0
	10/5/2020	4.0 U	0.5 U	0.8	1.2
VALLEY WATER CO. WELL 02					
	7/2/2019	4.0 U	0.5 U	0.8	0.7
	9/3/2019	4.0 U	0.5 U	0.5 U	0.6
	10/2/2019	4.0 U	0.5 U	0.5	0.7
	5/7/2020	4.0 U	0.5 U	0.5 U	0.5 U
	6/3/2020	4.0 U	0.5 U	0.6	0.8
	7/1/2020	4.0 U	NA	NA	NA
	7/2/2020	NA	0.5 U	0.8	0.9
	8/4/2020	4.0 U	0.5 U	0.6	0.8
	9/9/2020	4.0 U	0.5 U	0.5 U	0.6
	10/5/2020	4.0	0.5 U	0.6	0.7
VALLEY WATER CO. WELL 03					
	7/2/2019	4.0 U	0.5 U	0.5 U	0.5 U
	9/3/2019	4.0 U	NA	NA	NA
	5/7/2020	4.0 U	0.5 U	1.2	0.6
	6/3/2020	4.0 U	0.5 U	1.0	0.5 U
	7/2/2020	4.0 U	0.5 U	0.8	0.5 U
	8/4/2020	4.0 U	0.5 U	0.9	0.5 U
VALLEY WATER CO. WELL 04					
	9/3/2019	4.0 U	0.5 U	1.5	1.3
	10/2/2019	4.0 U	0.5 U	1.2	1.4
	5/7/2020	4.0 U	0.5 U	2.0	1.5
	6/3/2020	4.0 U	0.5 U	2.2	1.8
	7/2/2020	4.0 U	0.5 U	2.2	1.6
	8/4/2020	4.0 U	0.5 U	1.6	1.4
Analyte concentration exceeds the standard for:					
CA MCL		6.0	0.5	5.0	5.0
EPA REGION IX MCL		NE	5.0	5.0	5.0
Notes					
NA	Not analyzed				
NE	Not established				
Source	State Water Resources Control Board (Division of Drinking Water) Water Quality Index Database				
U	Analyte was analyzed for but not detected at or above the stated limit				

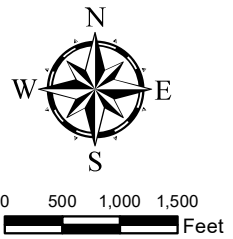
FIGURES



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

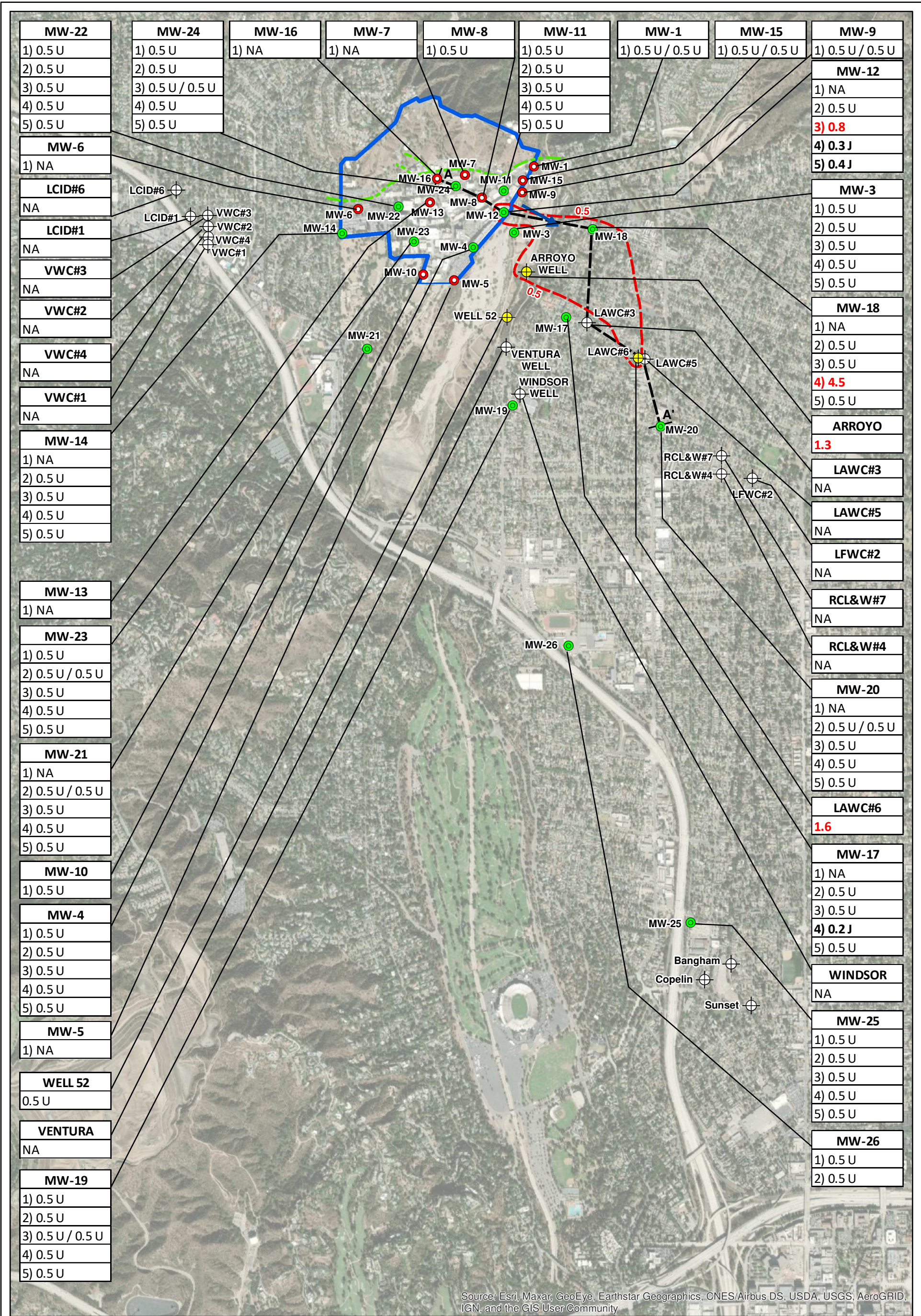
Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- ⊕ Municipal Production Well
- - - Approximate Location of Thrust Fault
- JPL Facility Boundary

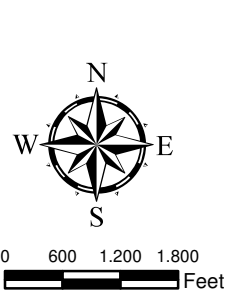


Locations of JPL Groundwater Monitoring Wells and Nearby Municipal Production Wells

DESIGNED BY	JPL - Pasadena, CA	Figure 1
DRAWN BY		
CHECKED BY	Contract No:	Oct 2019
DC	W912PL-13-D-0018 TO 001	



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
-
-
-
-
-
-
-

MW-8
1) 0.5 U

Well ID

Screen number

Concentration in micrograms per liter

J = Detected estimated value

U = Not detected estimated value

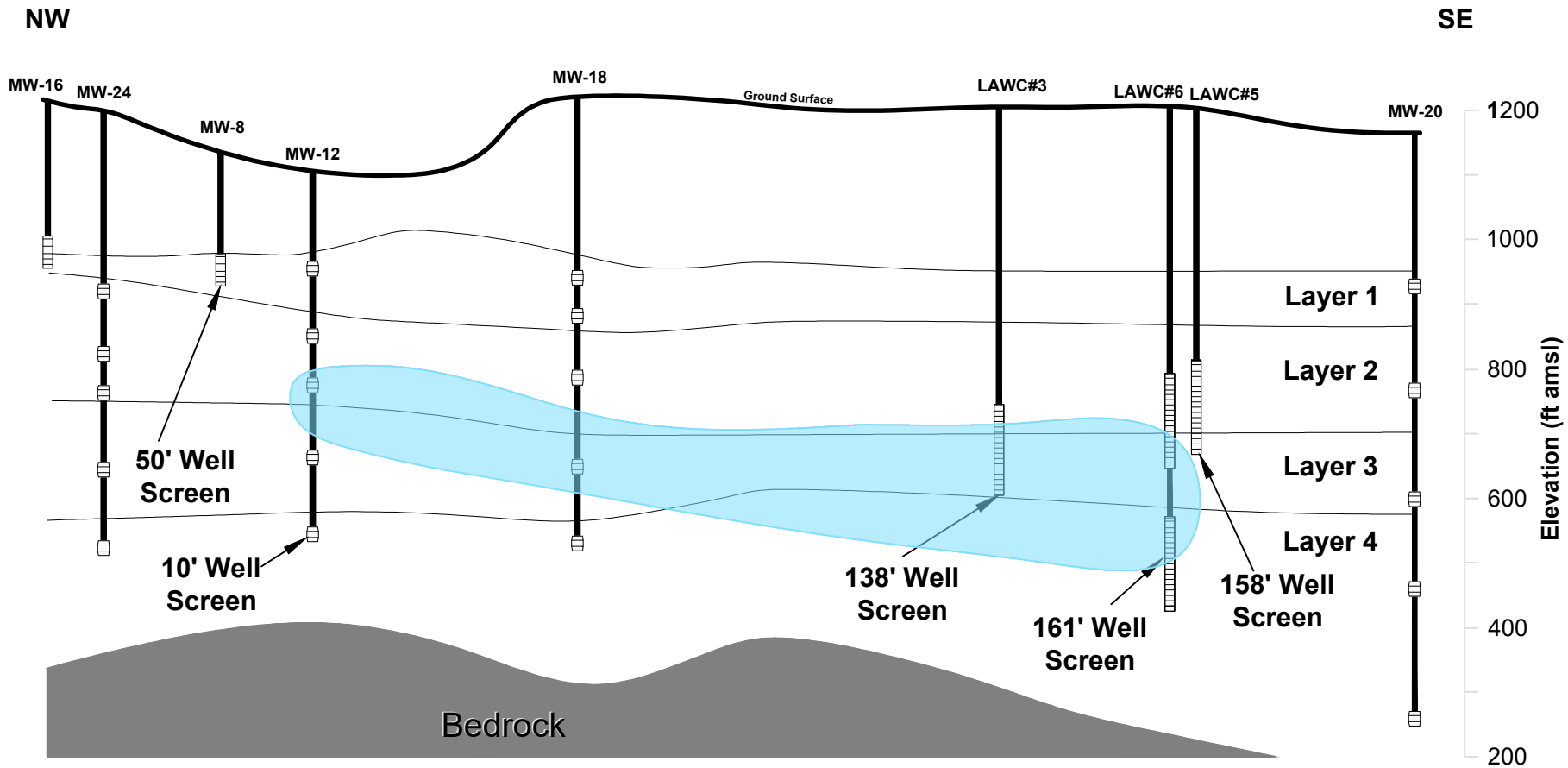
NA = Not Analyzed

Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 0.5 micrograms per liter; red font indicates concentration exceeds MCL.

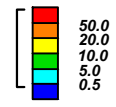


Carbon Tetrachloride in Groundwater
October/November 2020

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 2
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	Jan 2021



Note: Concentrations are Reported in $\mu\text{g/L}$
 Plume depicted above delineates concentrations
 exceeding state MLC ($0.5 \mu\text{g/L}$)



Z exag: 3.0

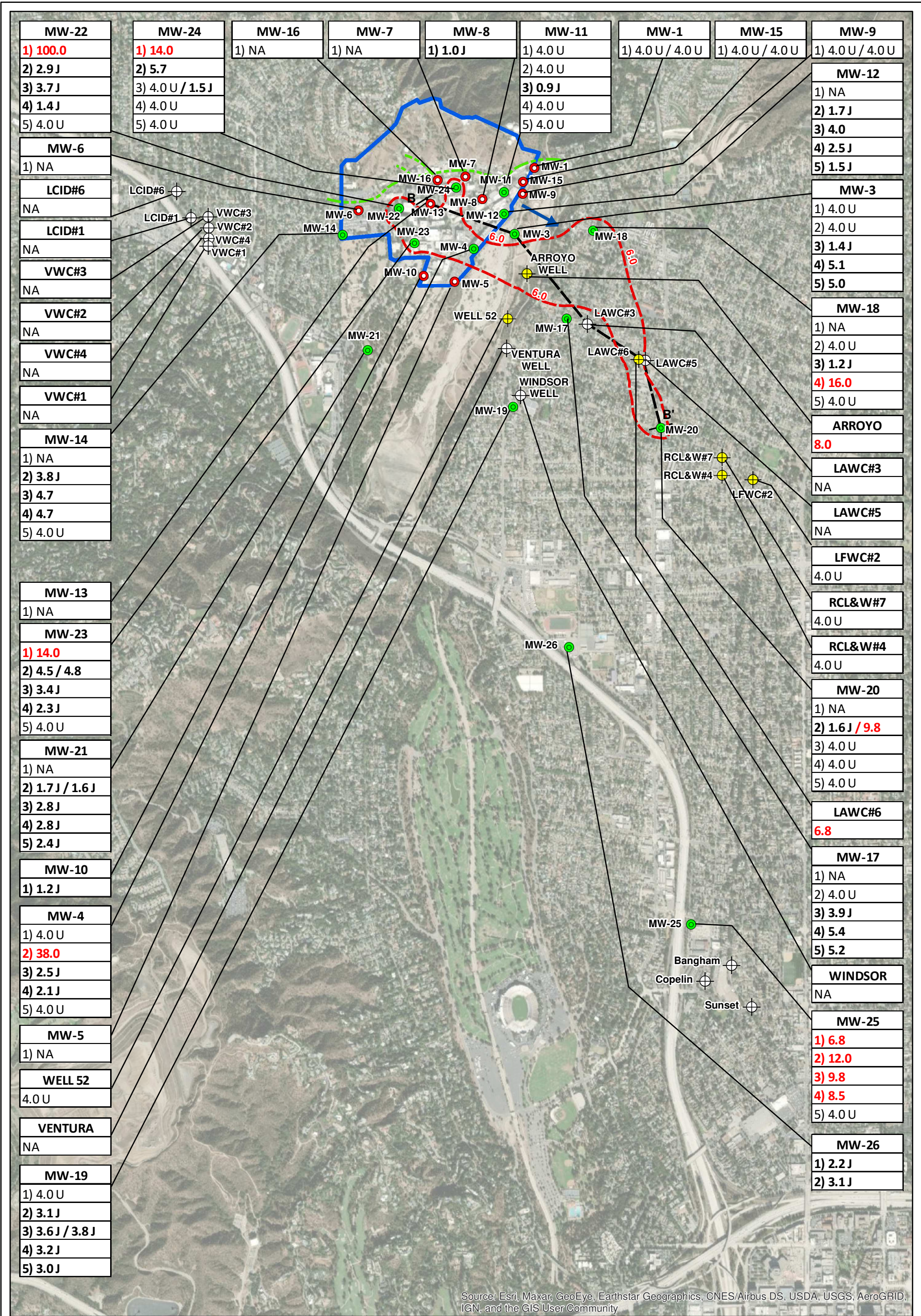


HORIZONTAL SCALE
 IN FEET
 (Approximate)

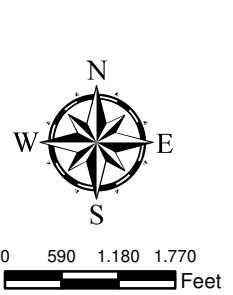


Horizontal and Vertical Extent
 of Carbon Tetrachloride in Groundwater
 October/November 2020

DESIGNED BY	JHG	JPL - Pasadena, CA	Figure 3
DRAWN BY	JHG		
CHECKED BY	DC	Contract No: FA8903-16-D-0049	Jan 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From November 2020)
- Cross-Section Transect B-B'
- Estimated Isoconcentration Line (6 µg/L)
- Approximate Location of Thrust Fault
- JPL Facility Boundary
- Groundwater Flow Direction

MW-8
1) 0.5 U

Well ID
Screen number
Concentration in micrograms per liter
J = Detected estimated value
U = Not detected estimated value
NA = Not Analyzed

Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 6 micrograms per liter; red font indicates concentration exceeds MCL.

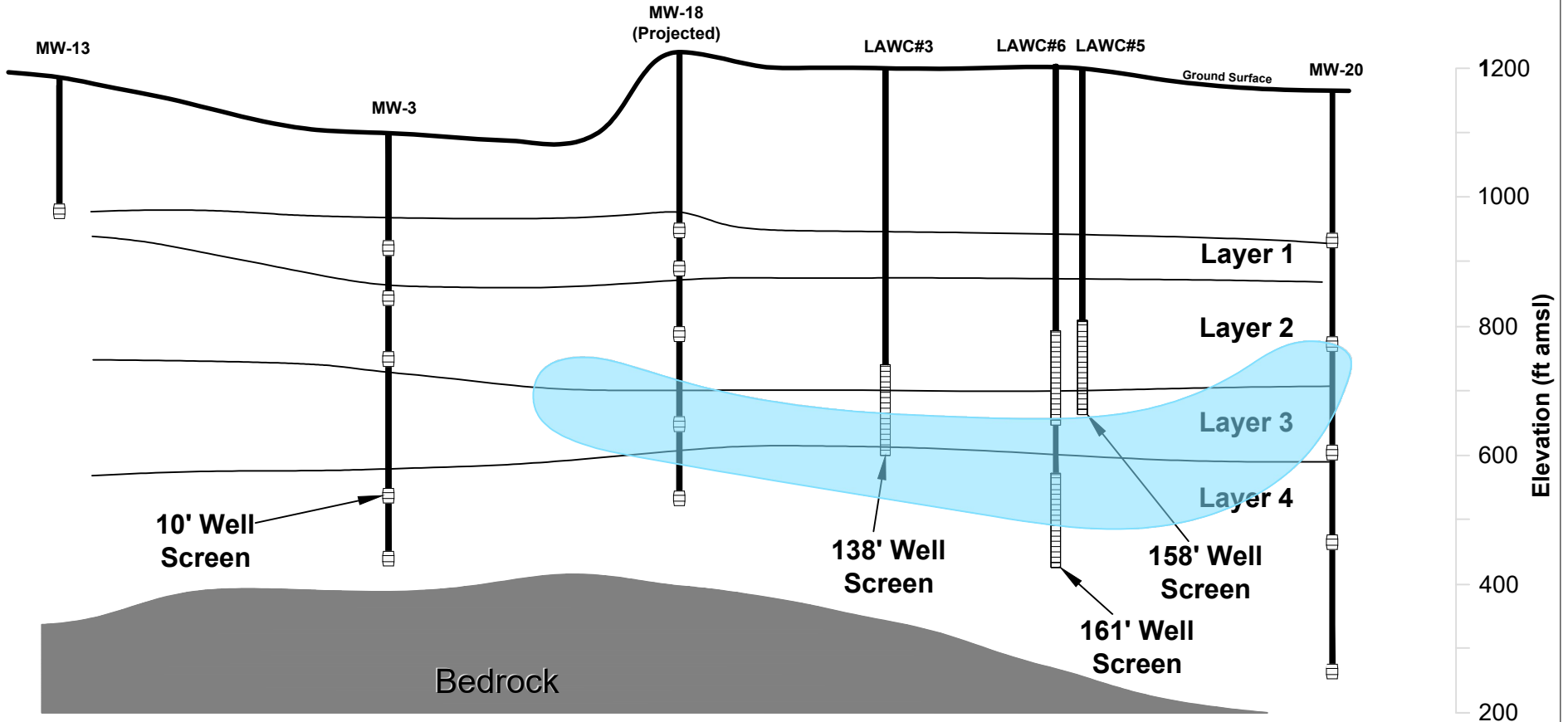


**Perchlorate in Groundwater
October/November 2020**

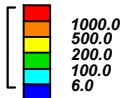
DESIGNED BY JHG	JPL - Pasadena, CA	Figure 4
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	Jan 2021

NW

SE



Note: Concentrations are Reported in $\mu\text{g/L}$
 Plume depicted above delineates concentrations
 exceeding state MCL ($6.0 \mu\text{g/L}$)



Z exag: 3.0



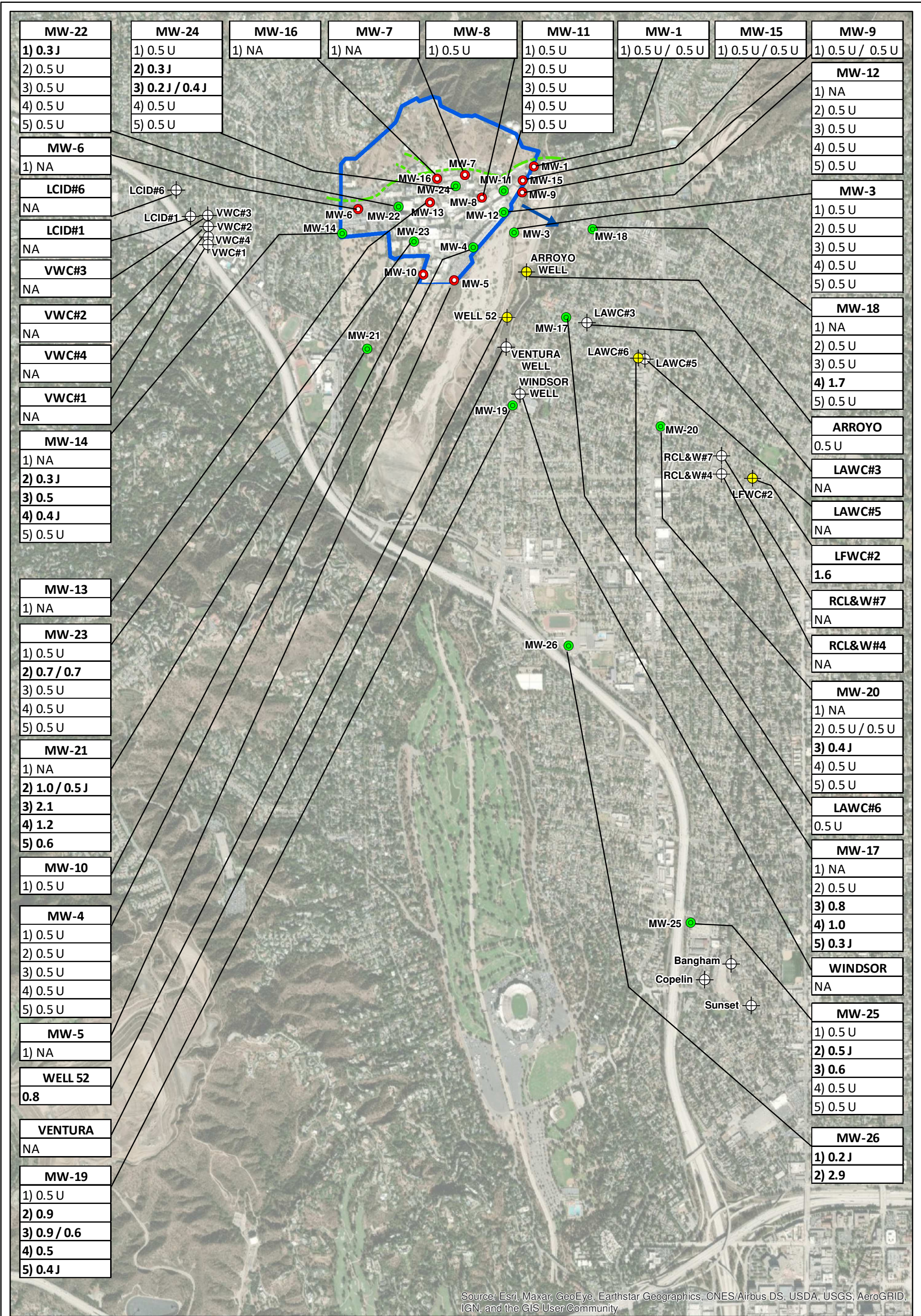
HORIZONTAL SCALE
 IN FEET
 (Approximate)



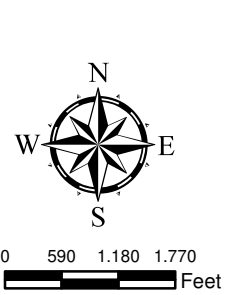
TIDEWATER INC
 ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

Horizontal and Vertical Extent
 of Perchlorate in Groundwater
 October/November 2020

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 5
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	Jan 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From November 2020)
- Estimated Isoconcentration Line (5 µg/L)
- JPL Facility Boundary
- Approximate Location of Thrust Fault
- Groundwater Flow Direction

MW-8
1) 0.5 U

Well ID
Screen number
Concentration in micrograms per liter
J = Detected estimated value
U = Not detected estimated value
NA = Not Analyzed

Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 5 micrograms per liter; red font indicates concentration exceeds MCL.



Tetrachloroethene in Groundwater
October/November 2020

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 6
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	Jan 2021

MW-22
1) 0.3 J
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-6
1) NA
LCID#6
NA
LCID#1
NA
VWC#3
NA
VWC#2
NA
VWC#4
NA
VWC#1
NA
MW-14
1) NA
2) 0.3 J
3) 0.5
4) 0.4 J
5) 0.5 U
MW-13
1) NA
MW-23
1) 0.5 U
2) 0.7 / 0.7
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-21
1) NA
2) 1.0 / 0.5 J
3) 2.1
4) 1.2
5) 0.6
MW-10
1) 0.5 U
MW-4
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-5
1) NA
WELL 52
0.8
VENTURA
NA
MW-19
1) 0.5 U
2) 0.9
3) 0.9 / 0.6
4) 0.5
5) 0.4 J

MW-24
1) 0.5 U
2) 0.3 J
3) 0.2 J / 0.4 J
4) 0.5 U
5) 0.5 U

MW-16
1) NA

MW-7
1) NA

MW-8
1) 0.5 U

MW-11
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U

MW-1
1) 0.5 U / 0.5 U

MW-15
1) 0.5 U / 0.5 U

MW-9
1) 0.5 U / 0.5 U
MW-12
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U

MW-3
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U

MW-18
1) NA
2) 0.5 U
3) 0.5 U
4) 1.7
5) 0.5 U

ARROYO
0.5 U

LAWC#3
NA

LAWC#5
NA

LFWC#2
1.6

RCL&W#7
NA

RCL&W#4
NA

MW-20
1) NA
2) 0.5 U / 0.5 U
3) 0.4 J
4) 0.5 U
5) 0.5 U

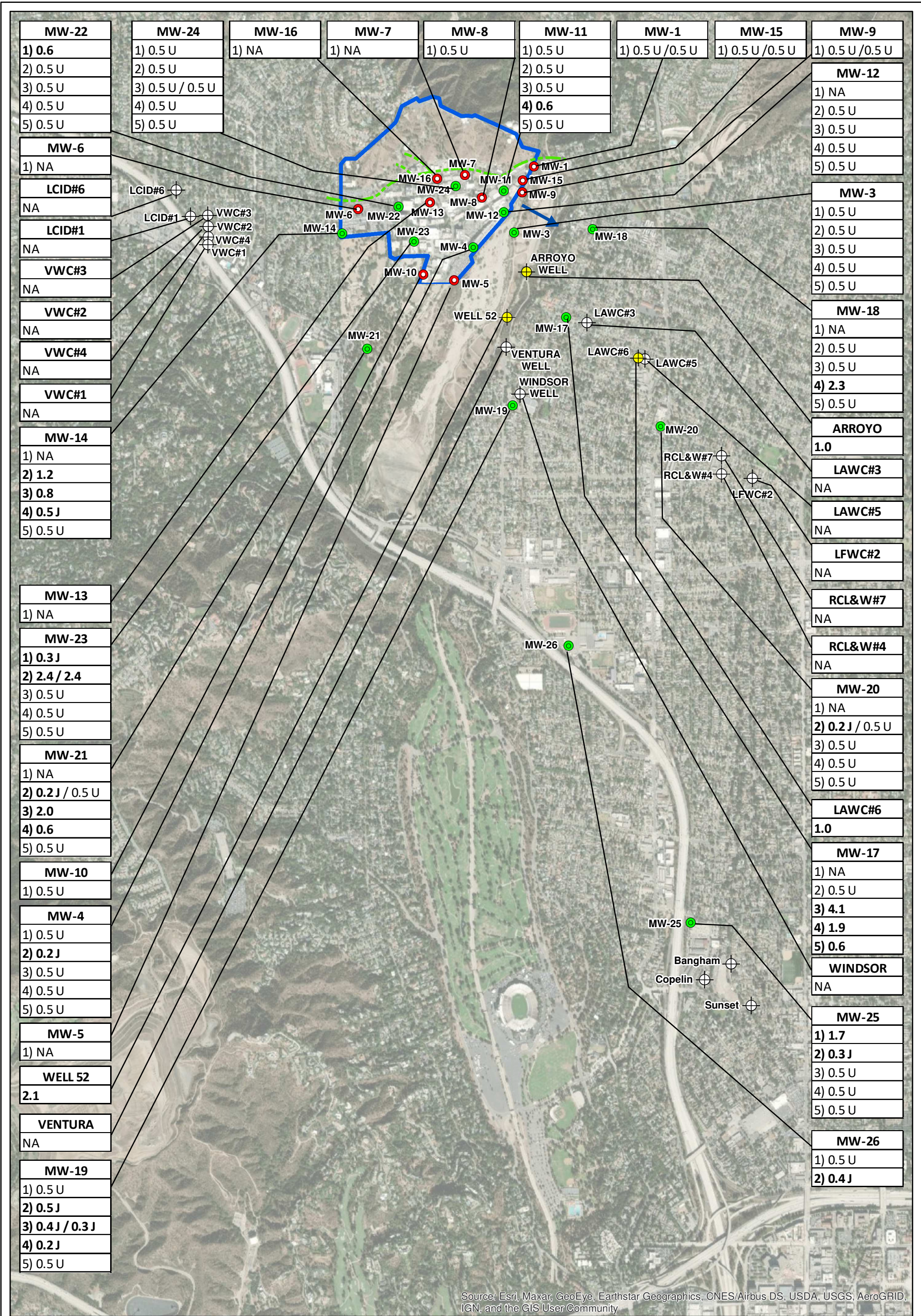
LAWC#6
0.5 U

MW-17
1) NA
2) 0.5 U
3) 0.8
4) 1.0
5) 0.3 J

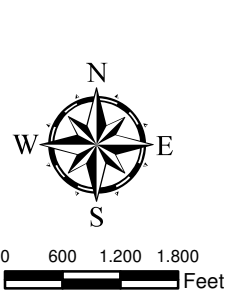
WINDSOR
NA

MW-25
1) 0.5 U
2) 0.5 J
3) 0.6
4) 0.5 U
5) 0.5 U

MW-26
1) 0.2 J
2) 2.9



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From November 2020)
- Estimated Isoconcentration Line (5 µg/L)
- JPL Facility Boundary
- Approximate Location of Thrust Fault
- Groundwater Flow Direction

MW-8
1) 0.5 U

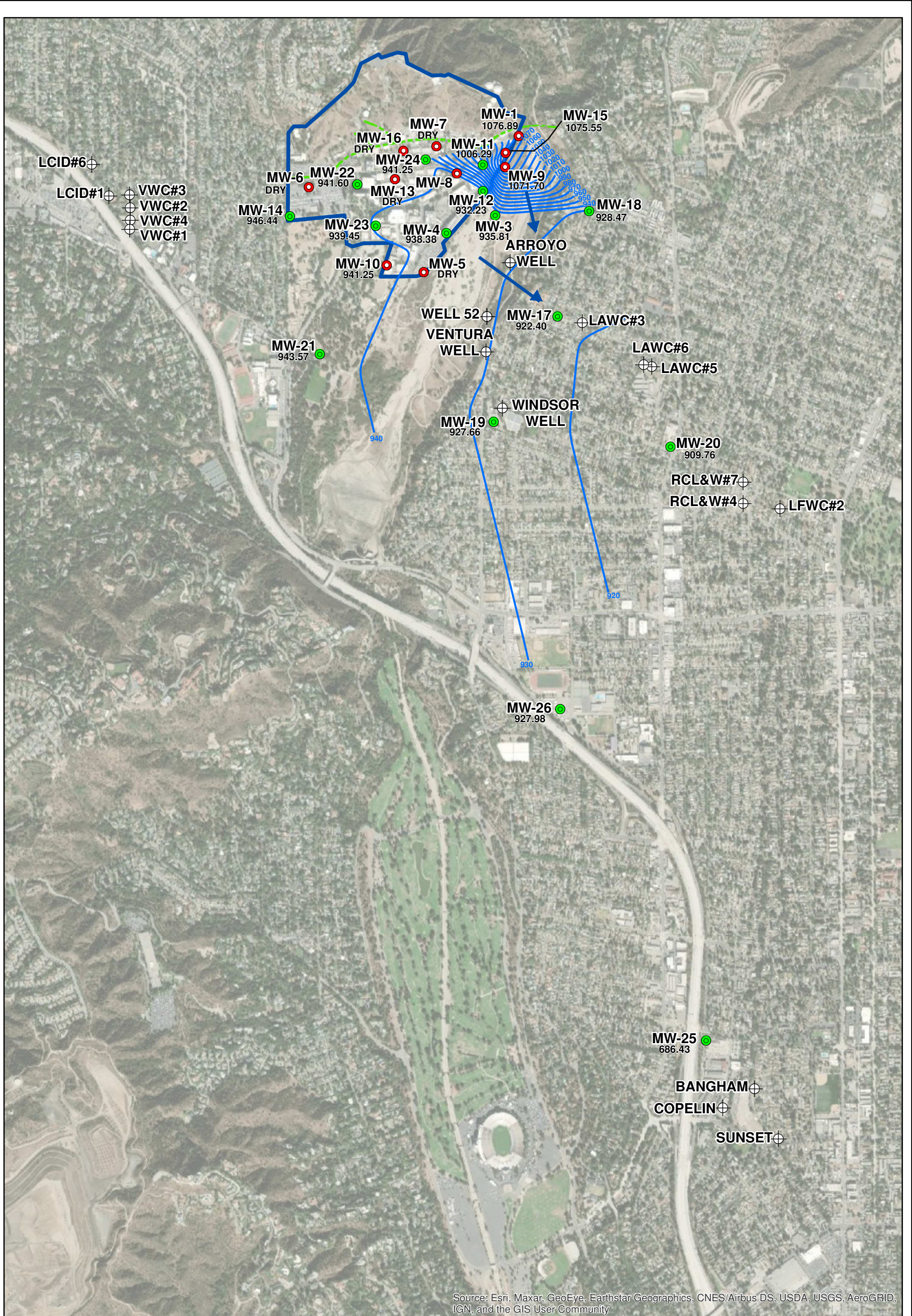
Well ID
 Screen number
 Concentration in micrograms per liter
 J = Detected estimated value
 U = Not detected estimated value
 NA = Not Analyzed

Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 5 micrograms per liter; red font indicates concentration exceeds MCL.



Trichloroethene in Groundwater
 October/November 2020

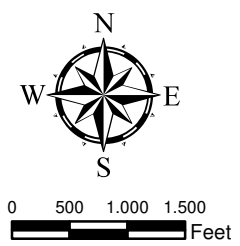
DESIGNED BY JHG	JPL - Pasadena, CA	Figure 7
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	Jan 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Shallow Monitoring Well Location
- Deep Multi-Port Monitoring Well Location
- ⊕ Municipal Production Well
- JPL Facility Boundary
- Approximate Location of Thrust Fault
- Groundwater Flow Direction
- Groundwater Elevation Contour (ft amsl)



**Groundwater Elevation Contours
October 2020**

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 8
DRAWN BY JHG		
CHECKED BY DC	Contract No: W912PL-13-D-0018 TO 001	Jan 2021