



Technical Memorandum

Third Quarter 2018 Groundwater Monitoring Summary

National Aeronautics and Space Administration

Jet Propulsion Laboratory, Pasadena, California

Final

October 2018

This technical memorandum summarizes the results of the third quarter 2018 groundwater sampling event completed as part of the groundwater monitoring program at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL). The third quarter 2018 groundwater sampling event was conducted from July 20 through August 3, 2018.

INTRODUCTION

During the third quarter 2018 sampling event, groundwater samples were collected from 23 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 during the last five sampling events. Table 3 summarizes VOC and perchlorate concentrations in production wells located near the JPL facility during the last five sampling events. No tentatively identified compounds (TICs) were detected in the samples collected during the third quarter of 2018.

Figures summarizing the results from the third quarter 2018 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 and Figure 8 shows groundwater elevation contours from the third quarterly 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. Attachment 4 contains the groundwater sample collection field logs for the JPL groundwater monitoring

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

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. Well MW-13 was inaccessible due to construction activities and therefore was not sampled during the third quarter 2018.

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. Additional details regarding chemical concentrations in these wells are presented below.

PERCHLORATE ANALYTICAL RESULTS

- Perchlorate was detected at estimated levels below the state MCL (6.0 µg/L) in MW-24 (Screens 1 [0.7] µg/L) and 2 [1.5] µg/L). Estimated levels are indicated by “J”.
- Perchlorate was not detected in the remaining on-facility source area wells/screens that were sampled during this event (third quarter 2018) with a reporting limit of 4.0 µg/L: MW-7, MW-16 and MW-24 (Screen 3).
- Perchlorate concentrations decreased from the last sampling event to the third quarter 2018 in MW-7 (5.0 µg/L to non-detect), MW-24 (Screens 1 [36.0 µg/L to 0.7] µg/L) and 2 [3.7] µg/L to 1.5] µg/L).

VOC ANALYTICAL RESULTS

- During the third quarter 2018, Carbon tetrachloride was not detected in the on-facility source area wells.
- During the third quarter 2018, TCE was not detected in the on-facility source area wells.
- During the third quarter 2018, PCE was not detected in the on-facility source area wells.

OTHER NOTABLE ANALYTICAL RESULTS

- In the October 2014 technical memorandum,² it was recommended that metals analysis would not be performed on the shallow standpipe wells when there was insufficient water for purging. During the third quarter 2018 sampling event, there was insufficient water for metals analysis in MW-16.
- During the third quarter 2018, Cr(VI)³ was not detected in the on-facility source area wells.
- Total chromium was detected above the federal MCL of 100.0 µg/L in MW-7 (670.0 µg/L). Total chromium was detected below the state MCL of 50.0 µg/L in MW-24 (Screens 1 [3.1 µg/L] and 2 [2.4] µg/L); and not detected in MW-24 Screens 3 and 4 with an estimated reporting limit of 2.0 µg/L. 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.

PERCHLORATE ANALYTICAL RESULTS

- During the third quarter 2018, perchlorate was detected below the state MCL of 6.0 µg/L in MW-6 (3.1] µg/L), MW-8 (4.2] µg/L), MW-11 (Screen 1 [1.3] µg/L]), MW-22 (Screens 1, 2, and 3 [2.7] µg/L, 2.1] µg/L, and 1.5] µg/L, respectively)), and MW-23 (Screens 1, 2, and 3 [2.5] µg/L, 3.6] µg/L, and 2.0] µg/L, respectively)).
- Perchlorate concentrations increased slightly from their respective last sampling event to the third quarter 2018 in MW-6 (2.2] µg/L to 3.1] µg/L), MW-11 (Screen 1 [non-detect to 1.3] µg/L), MW-22 (Screen 1 [2.6] µg/L to 2.7] µg/L)), and MW-23 (Screen 2 [3.5] µg/L to 3.6] µg/L)).
- The perchlorate concentration decreased from their respective last sampling event to the third quarter 2018 in MW-8 (23.0 µg/L to 4.2] µg/L), MW-11 (Screens 2 and 3 [0.9] µg/L to non-detect and 0.8] µg/L to non-detect, respectively)), MW-22 (Screen 3 [2.0] µg/L to 1.5] µg/L)) and MW-23 (Screens 1 [3.4] µg/L to 2.5] µg/L] and 3 [2.2] µg/L to 2.0] µg/L)).
- During the third quarter 2018, perchlorate was not detected in MW-11 (Screens 2, 3 and 4) with a reporting limit of 4.0 µg/L.

² NASA. 2014. *Technical Memorandum Third Quarter 2014 Groundwater Monitoring Summary, National Aeronautics and Space Administration Jet Propulsion Laboratory, Pasadena, California.* October.

³ On July 1, 2014, the State Water Resources Control Board (SWRCB) adopted an MCL for Cr(VI) of 10.0 µg/L. See http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chromium6.shtml

VOC ANALYTICAL RESULTS

- During the third quarter 2018, carbon tetrachloride was not detected in any of the other on-facility wells with a reporting limit of 0.5 µg/L.
- During the third quarter 2018, TCE was detected at estimated concentrations below the state and federal MCL of 5.0 µg/L in MW-6 (0.5J µg/L) and MW-23 (Screen 2 [0.3] µg/L).
- During the third quarter 2018, PCE was detected below the state and federal MCL for PCE (5.0 µg/L) in MW-6 (2.3 µg/L), MW-22 (Screen 1 [0.6 µg/L]) and MW-23 (Screens 1 [1.3 µg/L] and 2 [0.8 µg/L]).

OTHER NOTABLE ANALYTICAL RESULTS

- During the third quarter 2018, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-6 (1.3J µg/L), MW-8 (0.9) µg/L), MW-22 (Screens 1, 2 and 3 [0.9] µg/L, 2.0 µg/L and 1.9] µg/L, respectively)), and MW-23 (Screens 1 through 4 [1.1] µg/L, 0.9] µg/L, 3.3 µg/L, and 3.1 µg/L, respectively)).
- During the third quarter 2018, total chromium was detected in MW-6 (52.0 µg/L), MW-8 (7.3 µg/L) and MW-23 (Screens 1 through 4 [1.5] µg/L, 1.6] µg/L, 3.6 µg/L and 3.4 µg/L, respectively)); however, only the detection of 52.0 µg/L in MW-6 was above the state MCL (50.0 µg/L).
- The detection of total chromium in well MW-6 during the third quarter 2018 (52.0 µg/L) was the nineteenth time total chromium has been detected at or above the state MCL of 50.0 µg/L (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 µg/L], second 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] and first quarter 2018 [90.0 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 (MW-1 and MW-9 were not sampled during the third quarter 2018). It should be noted that during the third quarter 2018 MW-12 (Screen 1) was dry and no sample was collected. This well screen was dry due to declining water levels associated with the drought in California.

PERCHLORATE ANALYTICAL RESULTS

- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-3 (Screens 2 through 4 [1.9] µg/L and 1.2] µg/L and 0.8] µg/L, respectively)), MW-4 (Screens 1 and 2 [2.1] µg/L and 4.7 µg/L, respectively)), MW-10 (3.1] µg/L)), MW-12 (Screens 2 through 5 [1.8] µg/L, 1.8] µg/L, 1.5] µg/L and 1.2] µg/L, respectively)), and MW-14 (Screens 2 through 4 [3.4] µg/L, 4.1 µg/L and 3.5] µg/L, respectively)).
- Perchlorate concentrations increased from their respective last sampling date to the third quarter 2018 in MW-3 (Screens 2 and 3 [0.6] g/L to 1.9] µg/L and 0.6] µg/L to 1.2] µg/L, respectively)), MW-4 (Screen 1 [0.6] µg/L to 2.1] µg/L) and MW-12 (Screens 2, 3, and 4 [non-detect to 1.8] µg/L, 0.8] µg/L to 1.8] µg/L and 1.4] µg/L to 1.5] µg/L, respectively)).
- Perchlorate concentrations decreased from their last sampling event to the third quarter 2018 in MW-3 (Screen 4 [1.0] µg/L to 0.8] µg/L)), MW-4 (Screen 2 [6.5 µg/L to 4.7 µg/L)), MW-5 (0.9] µg/L to non-detect), MW-10 (4.6 µg/L to 3.1] µg/L), MW-12 (Screen 5 [1.3] µg/L to 1.2] µg/L)) and MW-14 (Screens 2 through 4 [3.8] µg/L to 3.4] µg/L, 4.3 µg/L to 4.1 µg/L and 4.4 µg/L to 3.5] µg/L, respectively)).
- The estimated perchlorate detection of 1.9] µg/L in MW-3 (Screen 2) in the third quarter 2018 is only the fifth detection below the state MCL (6.0 µg/L) since the second quarter 2014. MW-3 is within the capture zone of the Monk Hill Treatment System (MHTS).
- During the third quarter 2018, perchlorate was not detected in MW-4 (Screen 3), MW-5 and MW-14 (Screen 5) with a reporting limit of 4.0 µg/L.

VOC ANALYTICAL RESULTS

- During the third quarter 2018, carbon tetrachloride was detected at concentrations below the state MCL (0.5 µg/L) in MW-12 (Screens 3 and 4 [both at 0.3] µg/L)). No other carbon tetrachloride detections occurred in the perimeter off-facility wells during the third quarter 2018.
- During the third quarter 2018, TCE was detected below the state and federal MCL of 5.0 µg/L in MW-10 (0.3] µg/L) and MW-14 (Screens 2 and 3 (0.3] µg/L and 0.5 µg/L, respectively)). No other TCE detections occurred in the perimeter off-facility wells during the third quarter 2018.
- During the third quarter 2018, PCE was detected below the state and federal MCL (5.0 µg/L) in wells MW-4 (Screens 2 and 3 [1.0 µg/L and 0.6 µg/L, respectively)), MW-10 (2.3 µg/L) and MW-14 (Screens 2 and 3 [1.2 µg/L and 1.0 µg/L, respectively)). No other PCE detections occurred in the perimeter off-facility wells during the third quarter 2018.

OTHER NOTABLE ANALYTICAL RESULTS

- During the third quarter 2018, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-3 (Screen 3 [1.1] µg/L)) and MW-10 (2.8 µg/L). No other Cr(VI) detections occurred in the perimeter off-facility wells during the third quarter 2018.
- During the third quarter 2018, total chromium was detected in MW-3 (Screen 4 [12.0 µg/L)), MW-4 (Screens 2 and 3 [1.5] µg/L and 0.6] µg/L, respectively)) and MW-10 (18.0 µg/L); none of the detections were above the state MCL of 50.0 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 system began in July 2004.

During the third quarter 2018, MW-20 (Screen 1) and MW-21 (Screen 1) were dry and no samples were collected. In addition, MW-18 (Screen 1), which is only sampled during the second and fourth quarters, but is measured for water levels during the first and third quarters, was also dry. These well screens were dry due to declining water levels associated with the drought in California.

PERCHLORATE ANALYTICAL RESULTS

- During the third quarter 2018 sampling event, concentrations of perchlorate above the state MCL (6.0 µg/L) were reported in samples collected from wells MW-18 (Screen 4 [14.0 µg/L]), and MW-25 (Screens 1 through 4 [7.1 µg/L, 13.0 µg/L, 8.8 µg/L, and 8.3 µg/L, respectively]).
- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-17 (Screens 3 and 4 [3.5 µg/L and 3.1 µg/L]), MW-18 (Screen 3 [2.3 µg/L]), MW-19 (Screens 1 through 5 [1.3 µg/L, 3.0 µg/L, 2.5 µg/L, 3.0 µg/L, and 2.1 µg/L, respectively]), MW-20 (Screen 2 [1.5 µg/L]) and MW-21 (Screens 2 through 5 [1.3 µg/L, 2.3 µg/L, 1.5 µg/L, and 1.3 µg/L, respectively]).
- Perchlorate concentrations increased from their respective last sampling event to the third quarter 2018 in MW-19 (Screens 1 and 4 [non-detect to 1.3 µg/L and 2.6 µg/L to 3.0 µg/L, respectively]) and MW-25 (Screen 2 [12.0 µg/L to 13.0]).
- The perchlorate concentration decreased or remained unchanged from their respective last sampling event to the third quarter 2018 in MW-17 (Screens 3 and 4 [5.0 µg/L to 3.5 µg/L and 4.2 µg/L to 3.1 µg/L, respectively]), MW-18 (Screens 3 and 4 [4.6 µg/L to 2.3 µg/L and 16.0 µg/L to 14.0 µg/L, respectively]), MW-19 (Screens 2, 3 and 5 [remain unchanged at 3.0 µg/L, 4.7 µg/L to 2.5 µg/L and 2.5 µg/L to 2.1 µg/L respectively]), MW-20 (Screens 2 and 3 [1.7 µg/L to 1.5 µg/L and 1.4 µg/L to non-detect, respectively]), MW-21 (Screens 2 through 5 [1.7 µg/L to 1.3 µg/L, 3.8 µg/L to 2.3 µg/L, 2.6 µg/L to 1.5 µg/L and 2.5 µg/L to 1.3 µg/L, respectively]), MW-25 (Screens 1, 3 and 4 [9.1 µg/L to 7.1 µg/L, 9.0 µg/L to 8.8 µg/L, and 9.0 µg/L to 8.3 µg/L, respectively]), and MW-26 (Screens 1 and 2 [1.7 µg/L to non-detect and 2.1 µg/L to non-detect, respectively]).
- During the third quarter 2018, concentrations of perchlorate were not detected in MW-17 (Screen 2), MW-18 (Screens 2 and 5), MW-20 (Screens 3 through 5), MW-25 (Screen 5) and MW-26 (Screens 1 and 2) with a reporting limit of 4.0 µg/L.

VOC ANALYTICAL RESULTS

- During the third quarter 2018, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-18 (Screen 4) at a concentration of 1.4 µg/L.
- During the third quarter 2018, carbon tetrachloride was detected below the state MCL (0.5 µg/L) in MW-18 (Screen 3) at a concentration of 0.3 µg/L. No other carbon tetrachloride detections occurred in the off-facility wells during the third quarter 2018.

- The carbon tetrachloride detection of 0.3J µg/L in MW-18 (Screen 3) is the first detection below the state MCL (0.5 µg/L) since the first quarter 2005. Carbon tetrachloride detections in MW-18 (Screen 4) have exceeded the state MCL (0.5 µg/L) since the third quarter 1996 with one exception (non-detect in the fourth quarter 2010).
- During the third quarter 2018, TCE was detected in MW-17 (Screens 3 and 4), MW-18 (Screen 4), MW-19 (Screens 2, 3, and 4), MW-21 (Screens 2 through 5), MW-25 (Screen 3), and MW-26 (Screens 1 and 2); however, no detections exceeded the state and federal MCL (5.0 µg/L).
- During the third quarter 2018, PCE was detected in MW-17 (Screens 3 and 4), MW-18 (Screen 4), MW-19 (Screens 2 and 3), MW-20 (Screen 2), MW-21 (Screens 3 and 4), MW-25 (Screen 1), and MW-26 (Screen 2); however, no detections exceeded the state and federal MCL (5.0 µg/L).

OTHER NOTABLE ANALYTICAL RESULTS

- During the third quarter 2018, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-17 (Screens 2 and 4 [0.7J µg/L and 0.8J µg/L, respectively]), MW-18 (Screens 3 and 4 [1.7J µg/L and 2.0 µg/L, respectively]), MW-21 (Screens 4 and 5 [1.0J µg/L and 1.3J µg/L, respectively]), MW-25 (Screens 2, 3, and 4 [3.5 µg/L, 3.5 µg/L, and 1.1J µg/L, respectively]), and MW-26 (Screen 2 [1.5J µg/L]).
- During the third quarter 2018, total chromium was not detected in the off-facility wells.

ALL WELL CATEGORIES (OTHER RESULTS)

- Comparing the second quarter 2018 to the third quarter 2018, groundwater elevations decreased by an average of 8.86 ft.
- The uppermost sampling port (i.e., Screen 1) in multi-port monitoring wells MW-12, MW-14, MW-20, and MW-21 were dry and could not be sampled during the third quarter 2018. In addition, MW-18 (Screen 1), which is only sampled during the second and fourth quarters, but is measured for water levels during the first and third quarters, was also dry. This is the fourth consecutive quarter in which MW-18 (Screen 1), MW-20 (Screen 1), and MW-21 (Screen 1) 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. Groundwater elevations fluctuated between fourth quarter 2014 and first quarter 2017, but increased by an average of approximately 25 feet between first and second quarters of 2017. Groundwater elevations dropped by an average of 25 feet between second quarter 2017 and third quarter 2018. As of third quarter 2018, groundwater levels remain approximately 71.0 feet below the second quarter 2011 elevations. Groundwater elevations will continue to be closely monitored as the 2017/2018 precipitation totals are below average and parts of California are experiencing drought conditions⁴.

⁴ According to the National Integrated Drought Information System: <https://www.drought.gov/drought/states/california> (site visited October 25, 2018).

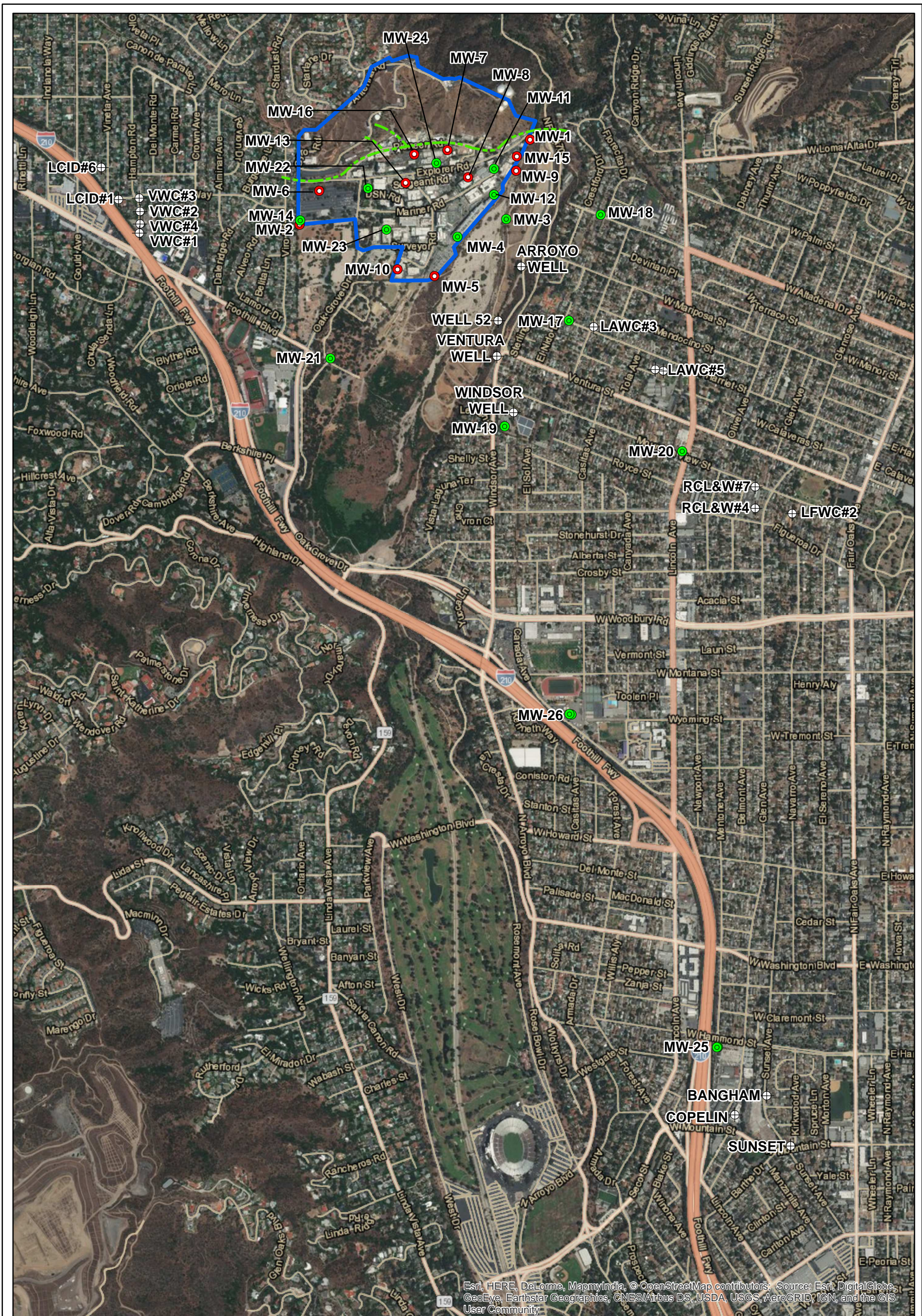
- Groundwater level measurements collected during the third quarter 2018 indicate that groundwater gradients and flow directions are generally consistent with previous observations (see Figure 8).

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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FIGURES



Esri, HERE, DeLorme, MapmyIndia, © 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

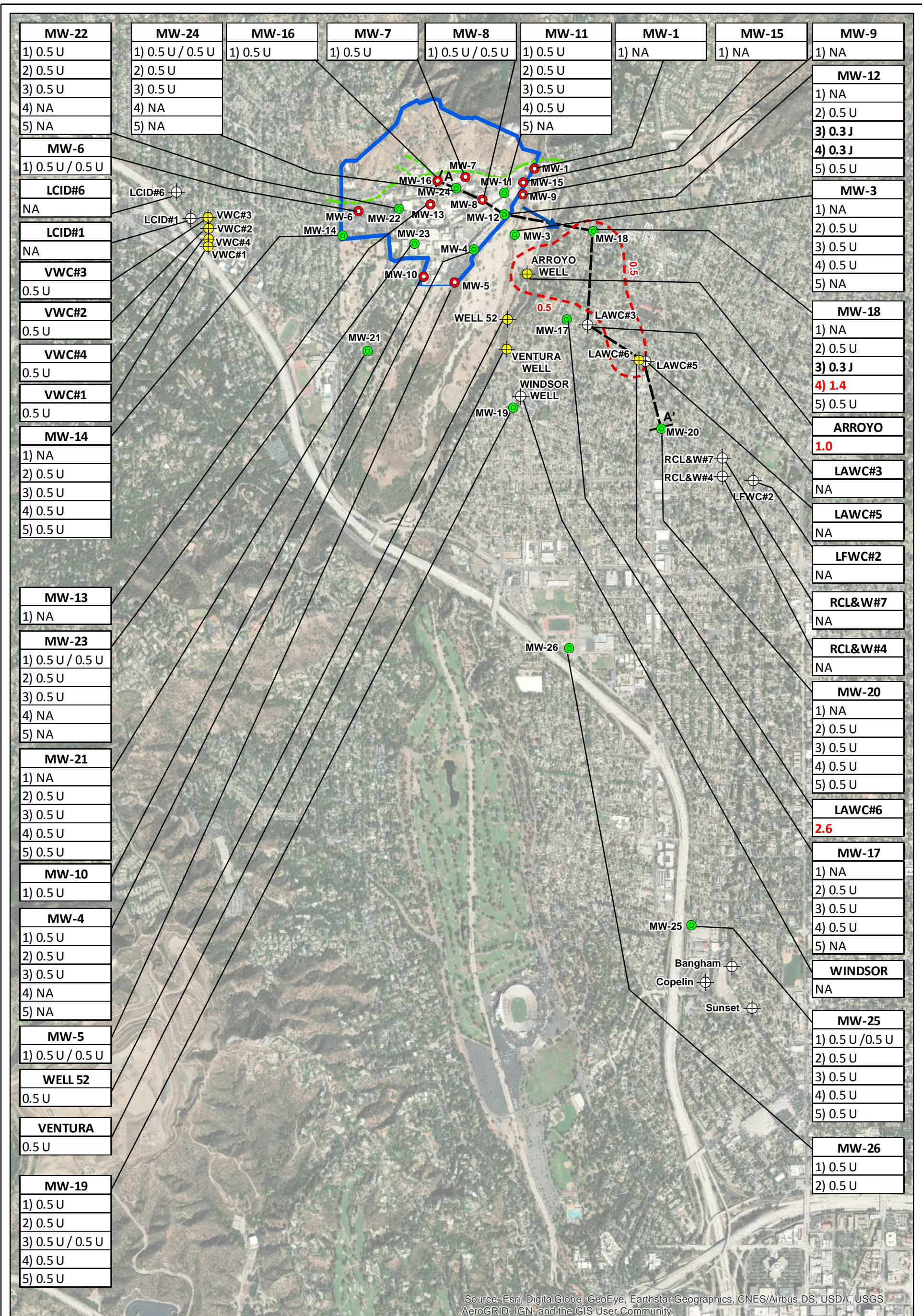


0 500 1,000 1,500
Feet



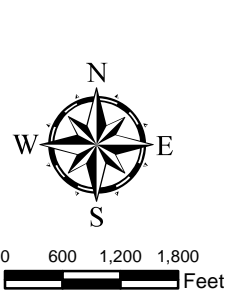
Locations of JPL Groundwater Monitoring Wells and Nearby Municipal Production Wells

DESIGNED BY	JPL - Pasadena, CA	Figure 1
DRAWN BY		
CHECKED BY	Contract No: FA8903-16-D-0049	April 2018



MW-22
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-6
1) 0.5 U / 0.5 U
LCID#6
NA
LCID#1
NA
VWC#3
0.5 U
VWC#2
0.5 U
VWC#4
0.5 U
VWC#1
0.5 U
MW-14
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-13
1) NA
MW-23
1) 0.5 U / 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-21
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-10
1) 0.5 U
MW-4
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-5
1) 0.5 U / 0.5 U
WELL 52
0.5 U
VENTURA
0.5 U
MW-19
1) 0.5 U
2) 0.5 U
3) 0.5 U / 0.5 U
4) 0.5 U
5) 0.5 U

MW-12
1) NA
2) 0.5 U
3) 0.3 J
4) 0.3 J
5) 0.5 U
MW-3
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) NA
MW-18
1) NA
2) 0.5 U
3) 0.3 J
4) 1.4
5) 0.5 U
ARROYO
1.0
LAWC#3
NA
LAWC#5
NA
LFWC#2
NA
RCL&W#7
NA
RCL&W#4
NA
MW-20
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
LAWC#6
2.6
MW-17
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) NA
WINDSOR
NA
MW-25
1) 0.5 U / 0.5 U
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-26
1) 0.5 U
2) 0.5 U



- Legend**
- Deep Multi-Port Monitoring Well Location
 - Shallow Monitoring Well Location
 - Municipal Production Well (Data Not Available)
 - Municipal Production Well (Data From July 2018)
 - Cross-Section Transect A-A'
 - Estimated Isoconcentration Line (0.5 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

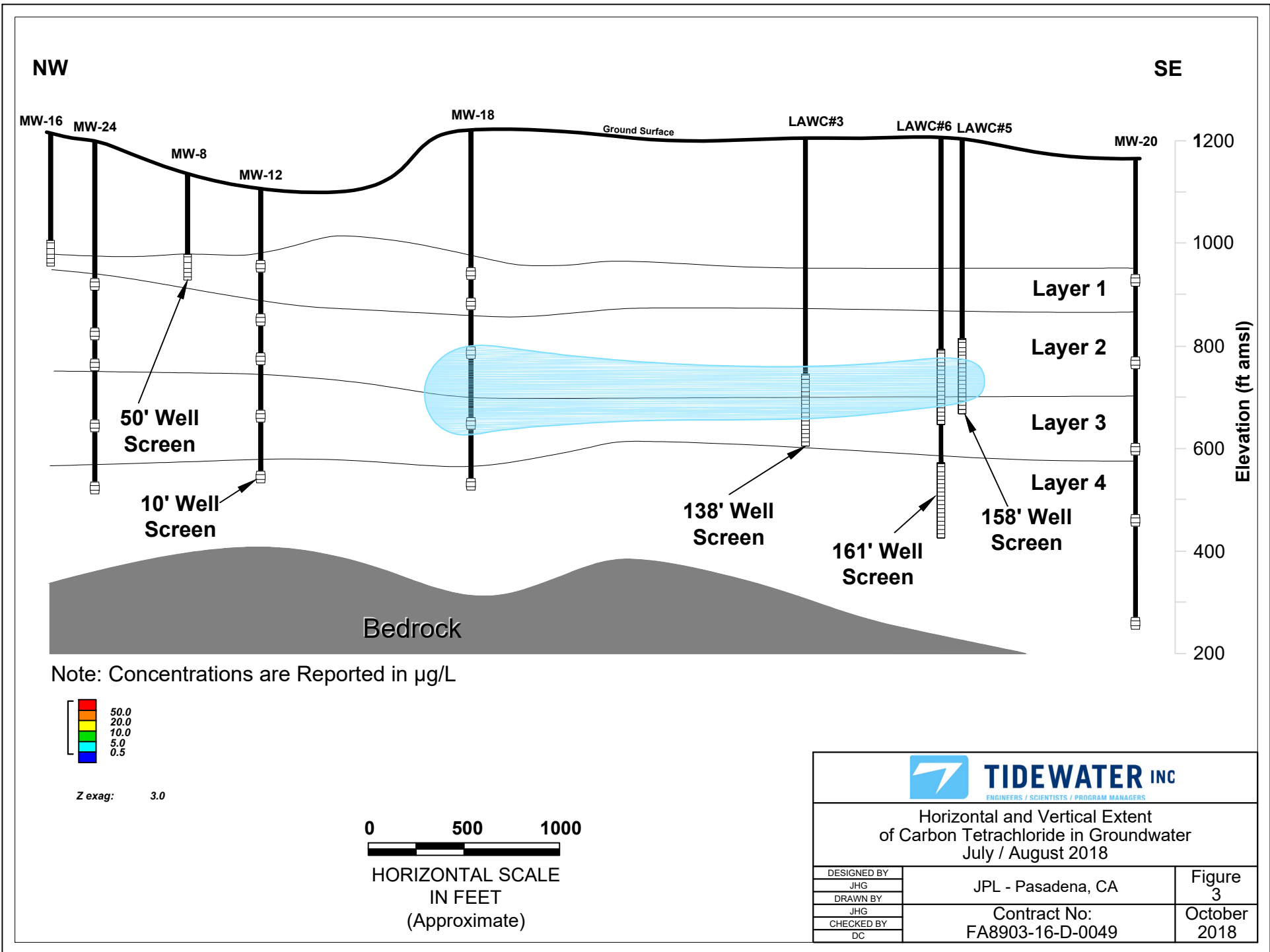
NA = Not Analyzed

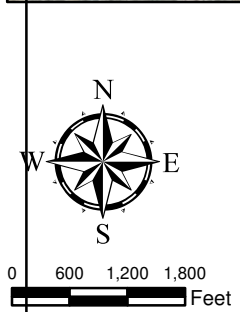
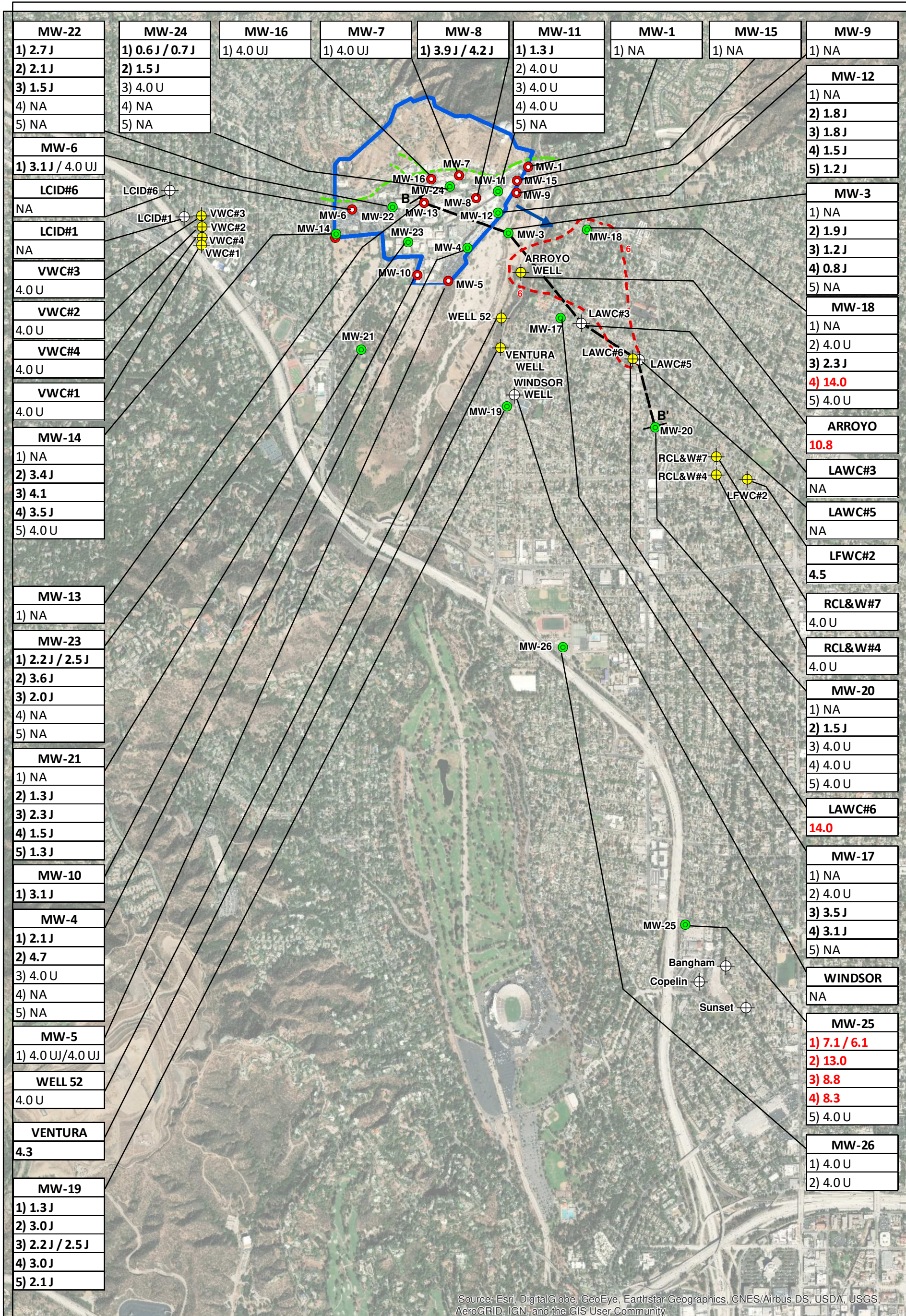
Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 0.5 micrograms per liter; red font indicates concentration exceeds MCL.



Carbon Tetrachloride in Groundwater July / August 2018

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 2
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	October 2018





Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- ⊕ Municipal Production Well (Data Not Available)
- ⊕ Municipal Production Well (Data From July 2018)
- 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.

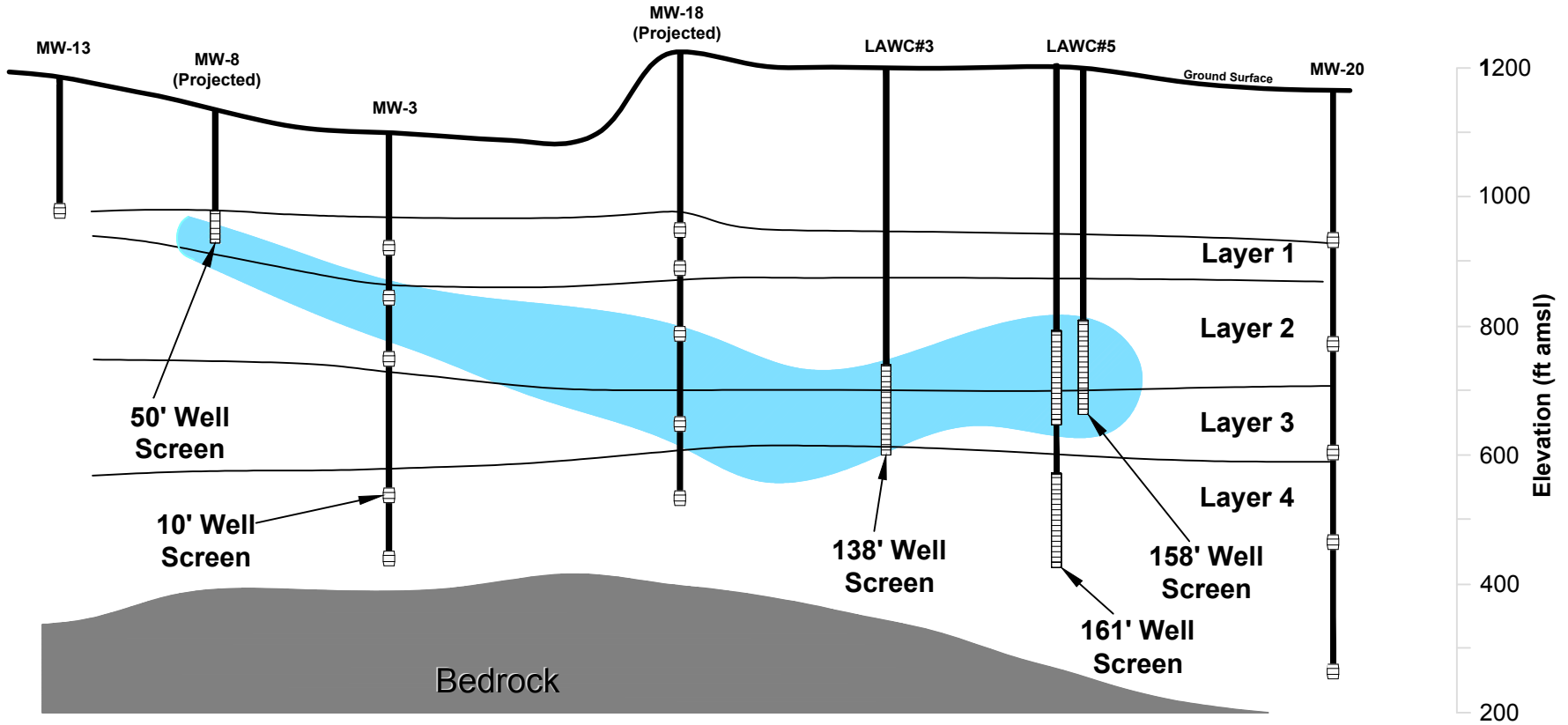
TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

Perchlorate in Groundwater
July / August 2018

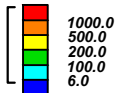
DESIGNED BY JHG	JPL - Pasadena, CA	Figure 4
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	October 2018

NW

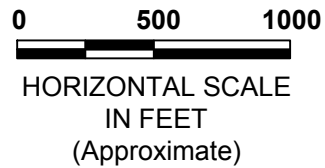
SE



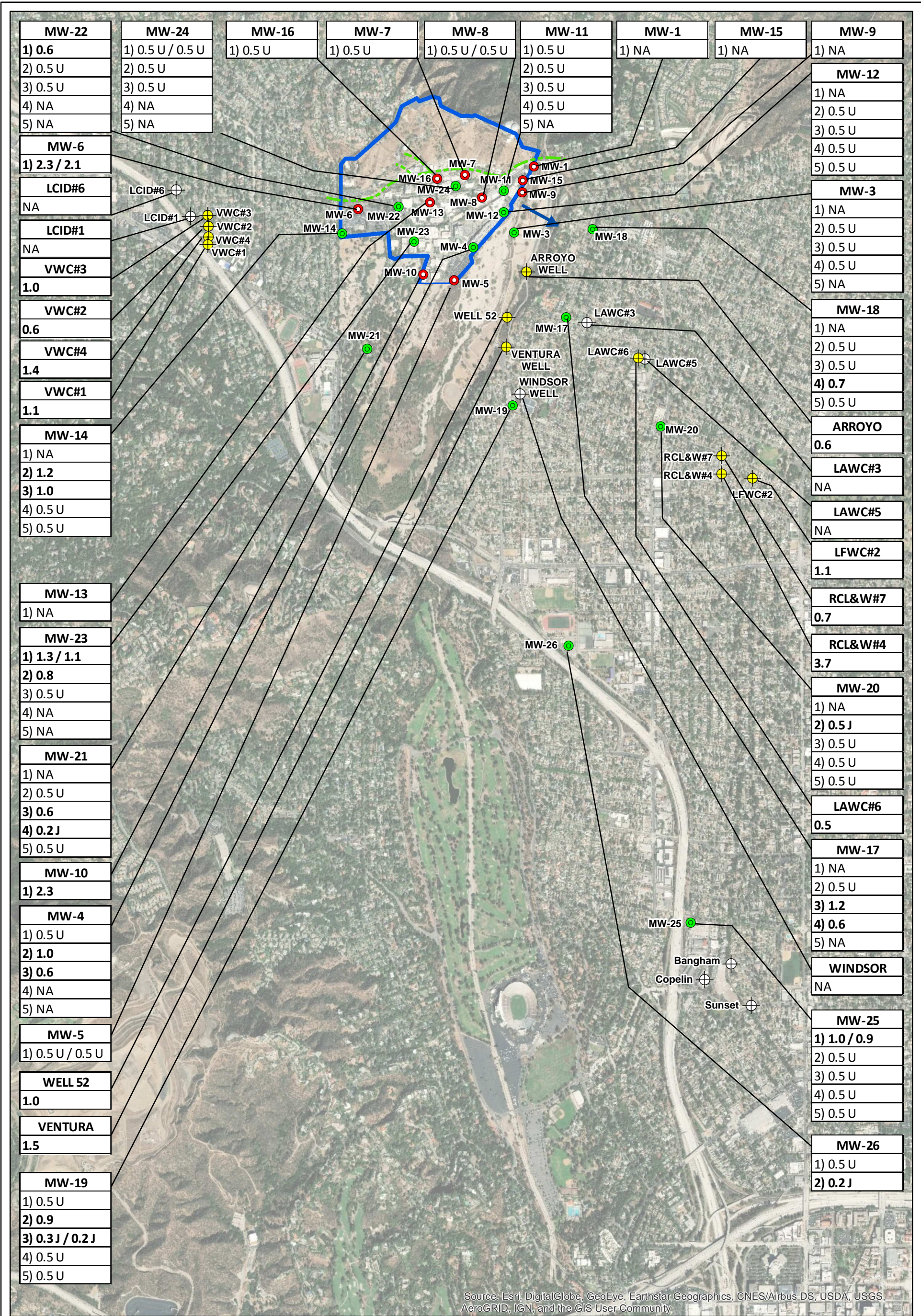
Note: Concentrations are Reported in $\mu\text{g/L}$



Z exag: 3.0

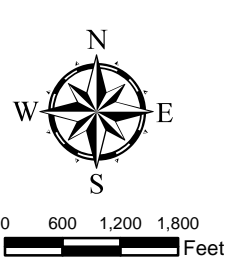


Horizontal and Vertical Extent of Perchlorate in Groundwater July / August 2018		
DESIGNED BY JHG	JPL - Pasadena, CA	Figure 5
DRAWN BY JHG	Contract No: FA8903-16-D-0049	October 2018
CHECKED BY DC		



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 (Data Not Available)
- Municipal Production Well (Data From July 2018)
- Estimated Isoconcentration Line (5 µg/L)
- JPL Facility Boundary
- Approximate Location of Thrust Fault
- Groundwater Flow Direction

MW-8
1) 0.5 U

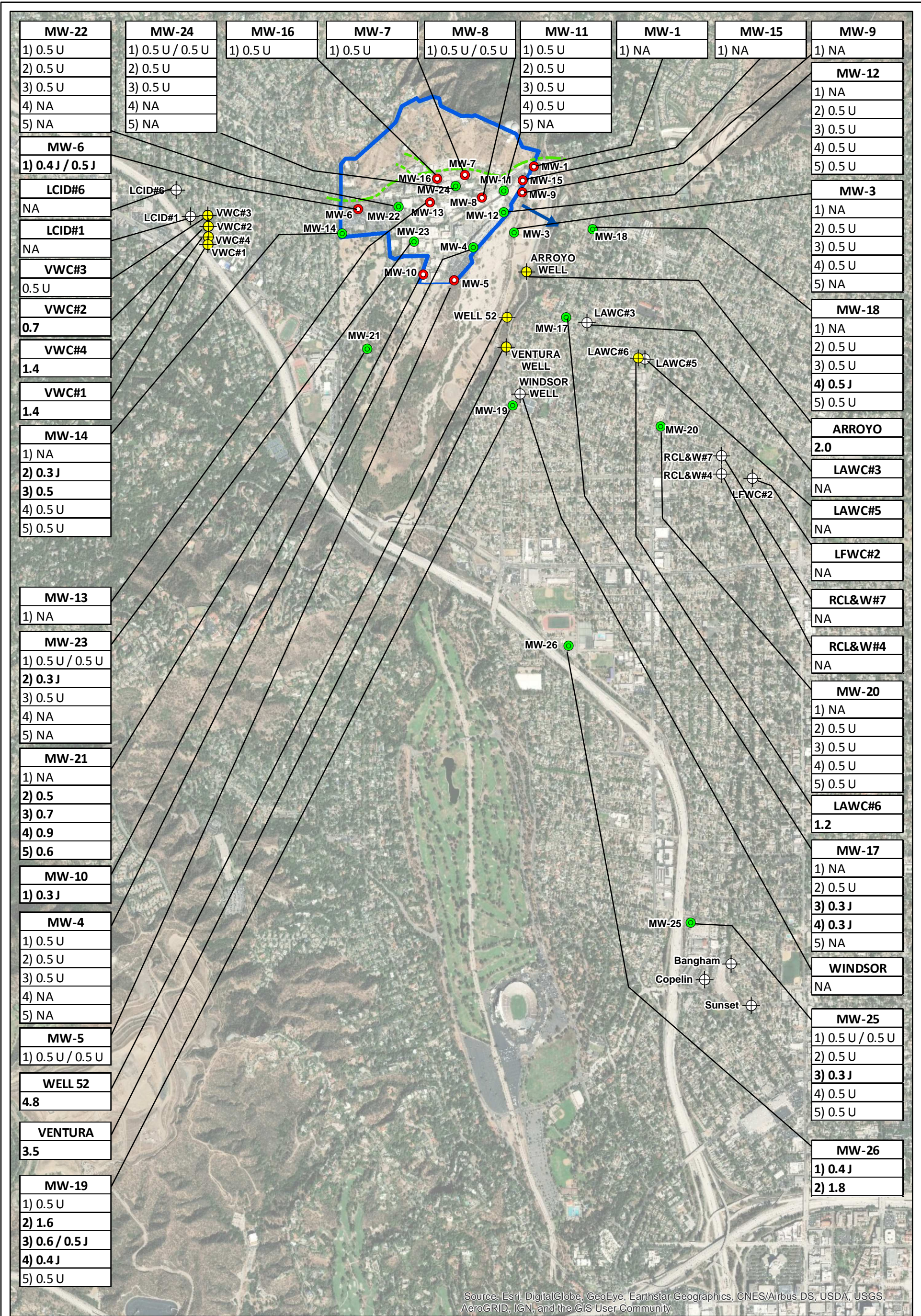
Well ID
 Screen number
 Concentration in micrograms per liter
 J = Detected estimated value
 U = Not detected estimated value
 NA = Not Analyzed

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
 July / August 2018

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 6
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	October 2018



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 (Data Not Available)
- Municipal Production Well (Data From July 2018)
- 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.

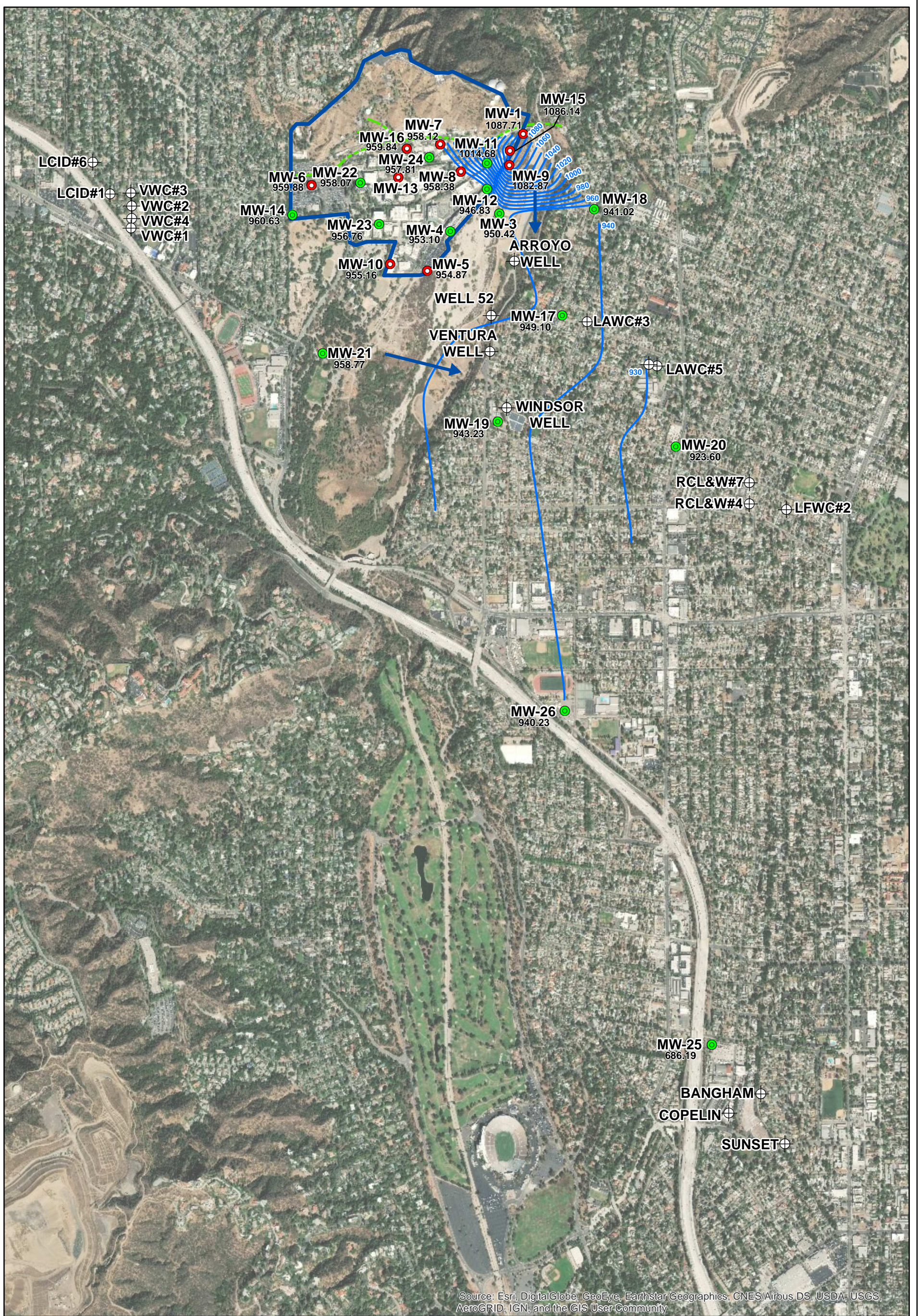


Trichloroethene in Groundwater
 July / August 2018

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 7
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	October 2018

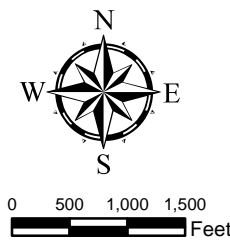
MW-22
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-24
1) 0.5 U / 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-16
1) 0.5 U
MW-7
1) 0.5 U
MW-8
1) 0.5 U / 0.5 U
MW-11
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) NA
MW-1
1) NA
MW-15
1) NA
MW-9
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
MW-6
1) 0.4 J / 0.5 J
LCID#6
NA
LCID#1
NA
VWC#3
0.5 U
VWC#2
0.7
VWC#4
1.4
VWC#1
1.4
MW-14
1) NA
2) 0.3 J
3) 0.5
4) 0.5 U
5) 0.5 U
MW-13
1) NA
MW-23
1) 0.5 U / 0.5 U
2) 0.3 J
3) 0.5 U
4) NA
5) NA
MW-21
1) NA
2) 0.5
3) 0.7
4) 0.9
5) 0.6
MW-10
1) 0.3 J
MW-4
1) 0.5 U
2) 0.5 U
3) 0.5 U
4) NA
5) NA
MW-5
1) 0.5 U / 0.5 U
WELL 52
4.8
VENTURA
3.5
MW-19
1) 0.5 U
2) 1.6
3) 0.6 / 0.5 J
4) 0.4 J
5) 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) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) NA
MW-18
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 J
5) 0.5 U
ARROYO
2.0
LAWC#3
NA
LAWC#5
NA
LFWC#2
NA
RCL&W#7
NA
RCL&W#4
NA
MW-20
1) NA
2) 0.5 U
3) 0.5 U
4) 0.5 U
5) 0.5 U
LAWC#6
1.2
MW-17
1) NA
2) 0.5 U
3) 0.3 J
4) 0.3 J
5) NA
WINDSOR
NA
MW-25
1) 0.5 U / 0.5 U
2) 0.5 U
3) 0.3 J
4) 0.5 U
5) 0.5 U
MW-26
1) 0.4 J
2) 1.8



Legend

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



**Groundwater Elevation Contours
July / August 2018**

DESIGNED BY JHG	JPL - Pasadena, CA	Figure 8
DRAWN BY JHG		
CHECKED BY DC	Contract No: FA8903-16-D-0049	October 2018

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	Apr/May 2017	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	October 2017	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	October 2017	DUP-8-4Q17	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	April 2018	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-3-Screen-1												
MW-3-Screen-1	Apr/May 2017	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	October 2017	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	April 2018	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	Jul/Aug 2017	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	1.2 J	
MW-3-Screen-2	October 2017	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	Jan/Feb 2018	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 J	9.3	
MW-3-Screen-2	April 2018	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	0.6 J	
MW-3-Screen-2	Jul/Aug 2018	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	1.9 J	
MW-3-Screen-3												
MW-3-Screen-3	Jul/Aug 2017	MW-3-3	0.5 U	0.5 U	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1.0 J	
MW-3-Screen-3	October 2017	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	1.0 J	
MW-3-Screen-3	Jan/Feb 2018	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-3	April 2018	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	0.6 J	
MW-3-Screen-3	Jul/Aug 2018	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	1.2 J	
MW-3-Screen-4												
MW-3-Screen-4	Jul/Aug 2017	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	1.0 J	
MW-3-Screen-4	October 2017	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	1.0 J	
MW-3-Screen-4	Jan/Feb 2018	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	0.6 J	
MW-3-Screen-4	April 2018	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	1.0 J	
MW-3-Screen-4	Jul/Aug 2018	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	0.8 J	
MW-3-Screen-5												
MW-3-Screen-5	Apr/May 2017	MW-3-5	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.7 J	
MW-3-Screen-5	October 2017	MW-3-5	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.8 J	
MW-3-Screen-5	April 2018	MW-3-5	0.5 U	0.5 U	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	
MW-4-Screen-1												
MW-4-Screen-1	Jul/Aug 2017	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	

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-4-Screen-1	October 2017	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	Jan/Feb 2018	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	Acetone	14.0
MW-4-Screen-1	April 2018	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	0.6 J		
MW-4-Screen-1	Jul/Aug 2018	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	2.1 J		
MW-4-Screen-2													
MW-4-Screen-2	Jul/Aug 2017	MW-4-2	0.5 U	1.3	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.3		
MW-4-Screen-2	October 2017	MW-4-2	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.8 J		
MW-4-Screen-2	Jan/Feb 2018	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	4.0 U	Acetone	14.0
MW-4-Screen-2	April 2018	MW-4-2	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	6.5		
MW-4-Screen-2	Jul/Aug 2018	MW-4-2	0.5 U	0.5 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.7		
MW-4-Screen-3													
MW-4-Screen-3	Jul/Aug 2017	MW-4-3	0.5 U	0.7	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	October 2017	MW-4-3	0.5 U	0.8	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	Jan/Feb 2018	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	4.0 U		
MW-4-Screen-3	April 2018	MW-4-3	0.5 U	0.9	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-3	Jul/Aug 2018	MW-4-3	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-4													
MW-4-Screen-4	Apr/May 2017	MW-4-4	0.5 U	1.2	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-4	October 2017	MW-4-4	0.5 U	0.8	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-4-Screen-4	April 2018	MW-4-4	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J		
MW-4-Screen-5													
MW-4-Screen-5	Apr/May 2017	MW-4-5	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Ethylbenzene	0.2 J
MW-4-Screen-5	October 2017	MW-4-5	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Ethylbenzene	0.3 J
												Styrene	0.2 J
MW-4-Screen-5	April 2018	MW-4-5	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	Ethylbenzene	0.2 J
												Styrene	0.2 J
MW-5													
MW-5	Jul/Aug 2017	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	4.0 U		
MW-5	October 2017	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	4.0 U		
MW-5	October 2017	DUP-6-4Q17	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	Jan/Feb 2018	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	4.0 U		
MW-5	April 2018	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	0.9 J		
MW-5	Jul/Aug 2018	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	4.0 UJ		
MW-5	Jul/Aug 2018	DUP-5-3Q18	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 UJ		
MW-6													
MW-6	Jul/Aug 2017	MW-6	0.5 U	2.6	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	2.7 J		
MW-6	Jul/Aug 2017	DUP-7-3Q17	0.5 U	2.7	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5	2.3 J		
MW-6	October 2017	MW-6	0.5 U	1.8	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.3 J		
MW-6	Jan/Feb 2018	MW-6	0.5 U	1.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	3.9 J		
MW-6	Jan/Feb 2018	DUP-6-1Q18	0.5 U	1.5	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.6 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	April 2018	MW-6	0.5 U	4.5	1.0	0.2 J	0.5 U	0.5 U	0.5 U	0.8	2.2 J	trans-1,2-Dichloroethene	0.2 J
MW-6	Jul/Aug 2018	MW-6	0.5 U	0.4 J	2.3	0.5 U	0.5 U	0.5 U	0.5 U	0.6	3.1 J		
MW-6	Jul/Aug 2018	DUP-6-3Q18	0.5 U	0.5 J	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.6	4.0 UJ		
MW-7													
MW-7	Jul/Aug 2017	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	12.0	Bromodichloromethane	0.2 J
MW-7	October 2017	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0	4.2		
MW-7	Jan/Feb 2018	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	9.6	Bromodichloromethane	0.6
MW-7	April 2018	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.7	5.0	Bromodichloromethane	0.4 J
MW-7	Jul/Aug 2018	MW-7	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 UJ		
MW-8													
MW-8	Jul/Aug 2017	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	Trichlorofluoromethane	0.1 J
MW-8	October 2017	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	1.2 J	Trichlorofluoromethane	0.3 J
MW-8	Jan/Feb 2018	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	21.0	Trichlorofluoromethane	0.6
MW-8	April 2018	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	23.0	Trichlorofluoromethane	0.7
MW-8	Jul/Aug 2018	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	3.9 J	Trichlorofluoromethane	0.3 J
MW-8	Jul/Aug 2018	DUP-7-3Q18	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.2 J	Trichlorofluoromethane	0.3 J
MW-9													
MW-9	Apr/May 2017	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	1.3 J		
MW-9	October 2017	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	April 2018	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-10													
MW-10	Jul/Aug 2017	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	2.0 J		
MW-10	October 2017	MW-10	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-10	Jan/Feb 2018	MW-10	0.5 U	3.8	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	5.3	trans-1,2-Dichloroethene	0.2 J
MW-10	April 2018	MW-10	0.5 U	6.1	0.8	0.2 J	0.5 U	0.5 U	0.5 U	0.8	4.6	cis-1,2-Dichloroethene	0.3 J
MW-10	Jul/Aug 2018	MW-10	0.5 U	0.3 J	2.3	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.1 J	trans-1,2-Dichloroethene	0.3 J
MW-11-Screen-1													
MW-11-Screen-1	Jul/Aug 2017	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	0.7 J		
MW-11-Screen-1	October 2017	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	Jan/Feb 2018	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	April 2018	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	Jul/Aug 2018	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	1.3 J		
MW-11-Screen-2													
MW-11-Screen-2	Jul/Aug 2017	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	Jul/Aug 2017	DUP-5-3Q17	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	October 2017	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	Jan/Feb 2018	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	April 2018	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	0.9 J		
MW-11-Screen-2	Jul/Aug 2018	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		

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-3													
MW-11-Screen-3	October 2017	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		
MW-11-Screen-3	Jan/Feb 2018	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	1.5 J	Styrene	0.2 J
MW-11-Screen-3	April 2018	MW-11-3	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U		
MW-11-Screen-3	April 2018	DUP-6-2Q18	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.8 J		
MW-11-Screen-3	Jul/Aug 2018	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	4.0 U	Carbon disulfide	0.5 J
												Methyl-tert-butyl ether (MTBE)	0.3 J
												Styrene	0.4 J
MW-11-Screen-4													
MW-11-Screen-4	Jul/Aug 2017	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	0.9 J		
MW-11-Screen-4	October 2017	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	Styrene	0.1 J
MW-11-Screen-4	Jan/Feb 2018	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	Styrene	0.2 J
MW-11-Screen-4	April 2018	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	Styrene	0.1 J
MW-11-Screen-4	Jul/Aug 2018	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-5													
MW-11-Screen-5	Apr/May 2017	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	October 2017	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	Styrene	0.2 J
MW-11-Screen-5	April 2018	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	Styrene	0.1 J
MW-12-Screen-1													
MW-12-Screen-1	Apr/May 2017	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-1	Jul/Aug 2017	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-1	April 2018	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	Jul/Aug 2017	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		
MW-12-Screen-2	October 2017	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		
MW-12-Screen-2	Jan/Feb 2018	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		
MW-12-Screen-2	April 2018	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		
MW-12-Screen-2	Jul/Aug 2018	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	1.8 J		
MW-12-Screen-3													
MW-12-Screen-3	Jul/Aug 2017	MW-12-3	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	3.2 J		
MW-12-Screen-3	Jul/Aug 2017	DUP-4-3Q17	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	2.9 J		
MW-12-Screen-3	October 2017	MW-12-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	0.7 J		
MW-12-Screen-3	Jan/Feb 2018	MW-12-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.7 J		
MW-12-Screen-3	April 2018	MW-12-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.8 J		
MW-12-Screen-3	April 2018	DUP-8-2Q18	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	0.8 J		
MW-12-Screen-3	Jul/Aug 2018	MW-12-3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	1.8 J		
MW-12-Screen-4													
MW-12-Screen-4	Jul/Aug 2017	MW-12-4	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.6 J		
MW-12-Screen-4	October 2017	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	2.1 J		
MW-12-Screen-4	October 2017	DUP-5-4Q17	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.2 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-12-Screen-4	Jan/Feb 2018	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	4.0 U		
MW-12-Screen-4	April 2018	MW-12-4	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1.4 J		
MW-12-Screen-4	Jul/Aug 2018	MW-12-4	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1.5 J		
MW-12-Screen-5													
MW-12-Screen-5	Jul/Aug 2017	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	2.7 J		
MW-12-Screen-5	October 2017	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	1.5 J		
MW-12-Screen-5	Jan/Feb 2018	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	4.0 U		
MW-12-Screen-5	April 2018	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	1.3 J		
MW-12-Screen-5	Jul/Aug 2018	MW-12-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.2 J		
MW-13													
MW-13	Jul/Aug 2017	MW-13	0.3 J	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	2.9	220.0		
MW-13	Jul/Aug 2017	DUP-6-3Q17	0.3 J	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	2.8	230.0		
MW-13	October 2017	MW-13	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0	69.0	Bromodichloromethane	0.2 J
MW-13	Jan/Feb 2018	MW-13	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.1	83.0	Bromodichloromethane	0.4 J
MW-13	April 2018	MW-13	0.4 J	0.5 U	0.6	0.2 J	0.2 J	0.5 U	0.5 U	3.9	230.0	Bromodichloromethane	0.5 J
MW-14-Screen-1													
MW-14-Screen-1	Apr/May 2017	MW-14-1	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.6 J		
MW-14-Screen-1	Jul/Aug 2017	MW-14-1	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.7 J		
MW-14-Screen-1	Jan/Feb 2018	MW-14-1	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.7 J	Methyl-tert-butyl ether (MTBE)	0.2 J
MW-14-Screen-1	April 2018	MW-14-1	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.0 J		
MW-14-Screen-2													
MW-14-Screen-2	Jul/Aug 2017	MW-14-2	0.5 U	1.7	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 J	3.0 J		
MW-14-Screen-2	October 2017	MW-14-2	0.5 U	1.3	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	3.5 J		
MW-14-Screen-2	Jan/Feb 2018	MW-14-2	0.5 U	1.4	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	4.9		
MW-14-Screen-2	April 2018	MW-14-2	0.5 U	1.2	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.8 J		
MW-14-Screen-2	Jul/Aug 2018	MW-14-2	0.5 U	0.3 J	1.2	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	3.4 J		
MW-14-Screen-3													
MW-14-Screen-3	Jul/Aug 2017	MW-14-3	0.5 U	0.9	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 J	3.9 J		
MW-14-Screen-3	Jul/Aug 2017	DUP-2-3Q17	0.5 U	1.0	0.4 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 J	4.7		
MW-14-Screen-3	October 2017	MW-14-3	0.5 U	0.9	0.5 J	0.3 J	0.5 U	0.5 U	0.5 U	0.4 J	4.5		
MW-14-Screen-3	Jan/Feb 2018	MW-14-3	0.5 U	2.1	1.1	0.6	0.5 U	0.5 U	0.5 U	0.9	5.8		
MW-14-Screen-3	April 2018	MW-14-3	0.5 U	1.0	0.6	0.4 J	0.5 U	0.5 U	0.5 U	0.5 J	4.3		
MW-14-Screen-3	Jul/Aug 2018	MW-14-3	0.5 U	0.5	1.0	0.3 J	0.5 U	0.5 U	0.5 U	0.5 J	4.1		
MW-14-Screen-4													
MW-14-Screen-4	Jul/Aug 2017	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	3.8 J		
MW-14-Screen-4	October 2017	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	4.0		
MW-14-Screen-4	Jan/Feb 2018	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.6		
MW-14-Screen-4	April 2018	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.4		
MW-14-Screen-4	April 2018	DUP-1-2Q18	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	3.0 J		
MW-14-Screen-4	Jul/Aug 2018	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	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-14-Screen-5													
MW-14-Screen-5	Jul/Aug 2017	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	4.0 U		
MW-14-Screen-5	October 2017	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	4.0 U		
MW-14-Screen-5	Jan/Feb 2018	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	4.0 U	Acetone	15.0
												Acrylonitrile	6.3
												Methyl-tert-butyl ether (MTBE)	0.5 J
												Styrene	0.6
MW-14-Screen-5	April 2018	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	4.0 U		
MW-14-Screen-5	Jul/Aug 2018	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	4.0 U		
MW-15													
MW-15	Apr/May 2017	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	0.7 J		
MW-15	Apr/May 2017	DUP-5-2Q17	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-15	October 2017	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	0.6 J		
MW-15	April 2018	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	2.2 J		
MW-16													
MW-16	Jul/Aug 2017	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.1	4.0 U	Dibromochloromethane	1.6
												Bromodichloromethane	3.8
MW-16	October 2017	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.8 J	Bromodichloromethane	0.4 J
MW-16	October 2017	DUP-7-4Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.8 J	Bromodichloromethane	0.5 J
MW-16	Jan/Feb 2018	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7	0.6 J	Bromodichloromethane	1.1
												Bromoform	1.7
												Dibromochloromethane	1.5
MW-16	April 2018	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.0	4.0 U	Bromodichloromethane	3.6
												Bromoform	2.4
												Dibromochloromethane	2.2
MW-16	Jul/Aug 2018	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	4.0 UJ	Bromodichloromethane	0.5
MW-17-Screen-1													
MW-17-Screen-1	Apr/May 2017	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	4.0 U		
MW-17-Screen-1	October 2017	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	4.0 U		
MW-17-Screen-1	April 2018	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	4.0 U		
MW-17-Screen-2													
MW-17-Screen-2	Jul/Aug 2017	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	4.0 U		
MW-17-Screen-2	October 2017	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	4.0 U		
MW-17-Screen-2	Jan/Feb 2018	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	4.0 U		
MW-17-Screen-2	April 2018	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	4.0 U		
MW-17-Screen-2	April 2018	DUP-5-2Q18	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	Jul/Aug 2018	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	4.0 U		
MW-17-Screen-3													
MW-17-Screen-3	Jul/Aug 2017	MW-17-3	0.5 U	1.4	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.3 J	5.6		
MW-17-Screen-3	October 2017	MW-17-3	0.5 U	1.3	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	4.9		

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-3	Jan/Feb 2018	MW-17-3	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	5.1	
MW-17-Screen-3	April 2018	MW-17-3	0.5 U	3.2	0.8	0.4 J	0.5 U	0.5 U	0.5 U	0.6	5.0	
MW-17-Screen-3	Jul/Aug 2018	MW-17-3	0.5 U	0.3 J	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.5 J	
MW-17-Screen-4												
MW-17-Screen-4	Jul/Aug 2017	MW-17-4	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.9 J	
MW-17-Screen-4	October 2017	MW-17-4	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.7	
MW-17-Screen-4	Jan/Feb 2018	MW-17-4	0.5 U	0.8	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.6	4.9	
MW-17-Screen-4	Jan/Feb 2018	Dup-3-IQ18	0.5 U	0.5	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.0	
MW-17-Screen-4	April 2018	MW-17-4	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.2	
MW-17-Screen-4	Jul/Aug 2018	MW-17-4	0.5 U	0.3 J	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.1 J	
MW-17-Screen-5												
MW-17-Screen-5	Apr/May 2017	MW-17-5	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-17-Screen-5	October 2017	MW-17-5	0.5 U	0.9	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.3	
MW-17-Screen-5	April 2018	MW-17-5	0.5 U	0.9	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	4.3	
MW-18-Screen-1												
MW-18-Screen-1	Apr/May 2017	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	0.7 J	
MW-18-Screen-2												
MW-18-Screen-2	Jul/Aug 2017	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	October 2017	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	Jan/Feb 2018	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	April 2018	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	Jul/Aug 2018	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	Jul/Aug 2017	MW-18-3	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.3	
MW-18-Screen-3	October 2017	MW-18-3	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	3.5 J	
MW-18-Screen-3	October 2017	DUP-3-4Q17	0.5 J	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-18-Screen-3	Jan/Feb 2018	MW-18-3	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.9 J	
MW-18-Screen-3	April 2018	MW-18-3	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.6	
MW-18-Screen-3	Jul/Aug 2018	MW-18-3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.3 J	
MW-18-Screen-4												
MW-18-Screen-4	Jul/Aug 2017	MW-18-4	1.2	0.7	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5	14.0	
MW-18-Screen-4	October 2017	MW-18-4	4.3	2.2	2.0	0.5 U	0.5 U	0.5 U	0.5 U	1.4	14.0	
MW-18-Screen-4	Jan/Feb 2018	MW-18-4	3.5	0.9	0.6	0.5 U	0.5 U	0.5 U	0.5 U	1.0	18.0	
MW-18-Screen-4	April 2018	MW-18-4	7.7	1.6	0.7	0.5 U	0.5 U	0.5 U	0.5 U	1.7	16.0	
MW-18-Screen-4	Jul/Aug 2018	MW-18-4	1.4	0.5 J	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.6	14.0	
MW-18-Screen-5												
MW-18-Screen-5	Jul/Aug 2017	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	October 2017	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	Jan/Feb 2018	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	April 2018	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	

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-18-Screen-5	Jul/Aug 2018	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-19-Screen-1													
MW-19-Screen-1	Jul/Aug 2017	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.6	4.0 U		
MW-19-Screen-1	October 2017	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	4.0 U		
MW-19-Screen-1	Jan/Feb 2018	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	4.0 U		
MW-19-Screen-1	April 2018	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	Jul/Aug 2018	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.4	1.3 J		
MW-19-Screen-2													
MW-19-Screen-2	Jul/Aug 2017	MW-19-2	0.5 U	1.3	2.5	0.2 J	0.5 U	0.5 U	0.5 U	2.7	2.6 J	cis-1,2-Dichloroethene	0.4 J
MW-19-Screen-2	April 2018	MW-19-2	0.5 U	0.9	1.8	0.5 U	0.5 U	0.5 U	0.5 U	2.2	3.0 J	cis-1,2-Dichloroethene	0.4 J
												Methyl-tert-butyl ether (MTBE)	0.2 J
MW-19-Screen-2	Jul/Aug 2018	MW-19-2	0.5 U	1.6	0.9	0.2 J	0.5 U	0.5 U	0.5 U	2.3	3.0 J	cis-1,2-Dichloroethene	0.4 J
MW-19-Screen-3													
MW-19-Screen-3	Jul/Aug 2017	MW-19-3	0.5 U	0.2 J	0.5	0.5 U	0.5 U	0.5 U	0.5 U	1.3	3.6 J		
MW-19-Screen-3	October 2017	MW-19-3	0.5 U	0.2 J	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.7	3.9 J		
MW-19-Screen-3	Jan/Feb 2018	MW-19-3	0.5 U	0.2 J	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	1.4	4.1 J		
MW-19-Screen-3	April 2018	MW-19-3	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	1.4	4.7		
MW-19-Screen-3	Jul/Aug 2018	MW-19-3	0.5 U	0.6	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	2.6	2.2 J		
MW-19-Screen-3	Jul/Aug 2018	DUP-1-3Q18	0.5 U	0.5 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	2.2	2.5 J	Bromodichloromethane	0.2 J
MW-19-Screen-4													
MW-19-Screen-4	Jul/Aug 2017	MW-19-4	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.6	2.9 J		
MW-19-Screen-4	October 2017	MW-19-4	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.4 J		
MW-19-Screen-4	Jan/Feb 2018	MW-19-4	0.5 U	0.2 J	0.8	0.5 U	0.5 U	0.5 U	0.5 U	1.0	2.4 J		
MW-19-Screen-4	April 2018	MW-19-4	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5	2.6 J		
MW-19-Screen-4	Jul/Aug 2018	MW-19-4	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	3.0 J		
MW-19-Screen-5													
MW-19-Screen-5	Jul/Aug 2017	MW-19-5	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1.8	1.7 J		
MW-19-Screen-5	October 2017	MW-19-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0	2.0 J		
MW-19-Screen-5	Jan/Feb 2018	MW-19-5	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	3.0	2.1 J	Bromodichloromethane	0.2 J
MW-19-Screen-5	April 2018	MW-19-5	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	2.4	2.5 J		
MW-19-Screen-5	Jul/Aug 2018	MW-19-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7	2.1 J	Bromodichloromethane	0.2 J
MW-20-Screen-2													
MW-20-Screen-2	Jul/Aug 2017	MW-20-2	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.9 J		
MW-20-Screen-2	October 2017	MW-20-2	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	3.2 J	Carbon disulfide	0.6 J
MW-20-Screen-2	Jan/Feb 2018	MW-20-2	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 UJ		
MW-20-Screen-2	April 2018	MW-20-2	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.7 J	Carbon disulfide	0.8 J
MW-20-Screen-2	April 2018	DUP-7-2Q18	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U	Carbon disulfide	0.7 J
MW-20-Screen-2	Jul/Aug 2018	MW-20-2	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.5 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-20-Screen-3													
MW-20-Screen-3	Apr/May 2017	DUP-2-2Q17	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acrylonitrile	1.7 J
												Styrene	0.4 J
MW-20-Screen-3	Jul/Aug 2017	MW-20-3	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acrylonitrile	1.8 J
												Styrene	0.3 J
MW-20-Screen-3	Jul/Aug 2017	DUP-1-3Q17	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acrylonitrile	1.6 J
												Styrene	0.4 J
MW-20-Screen-3	October 2017	MW-20-3	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	Acrylonitrile	1.6 J
												Carbon disulfide	0.6 J
												Ethylbenzene	0.2 J
												Styrene	0.4 J
MW-20-Screen-3	October 2017	DUP-1-4Q17	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	Acrylonitrile	1.8 J
												Carbon disulfide	0.7 J
												Styrene	0.3 J
MW-20-Screen-3	Jan/Feb 2018	MW-20-3	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 UJ	Styrene	0.3 J
MW-20-Screen-3	April 2018	MW-20-3	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J	Carbon disulfide	0.9 J
												Styrene	0.3 J
MW-20-Screen-3	Jul/Aug 2018	MW-20-3	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	Acrylonitrile	1.7 J
												Carbon disulfide	0.5 J
												Styrene	0.2 J
MW-20-Screen-4													
MW-20-Screen-4	Jul/Aug 2017	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	October 2017	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	Jan/Feb 2018	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 UJ		
MW-20-Screen-4	April 2018	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	Jul/Aug 2018	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	Jul/Aug 2017	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	Styrene	0.3 J
MW-20-Screen-5	October 2017	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	Styrene	0.2 J
MW-20-Screen-5	Jan/Feb 2018	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 UJ	Styrene	0.2 J
MW-20-Screen-5	Jan/Feb 2018	DUP-1-1Q18	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 UJ	Styrene	0.2 J
MW-20-Screen-5	April 2018	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	Styrene	0.2 J
MW-20-Screen-5	Jul/Aug 2018	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	Styrene	0.1 J
MW-21-Screen-1													
MW-21-Screen-1	Jul/Aug 2017	MW-21-1	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	7.7		
MW-21-Screen-2													
MW-21-Screen-2	Jul/Aug 2017	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	1.1 J		
MW-21-Screen-2	October 2017	MW-21-2	0.5 U	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.3 J		
MW-21-Screen-2	Jan/Feb 2018	MW-21-2	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-2	April 2018	MW-21-2	0.5 U	0.2 J	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.3 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-21-Screen-2	Jul/Aug 2018	MW-21-2	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J		
MW-21-Screen-3													
MW-21-Screen-3	Jul/Aug 2017	MW-21-3	0.5 U	1.1	1.1	0.2 J	0.5 U	0.5 U	0.5 U	0.5 J	3.0 J		
MW-21-Screen-3	October 2017	MW-21-3	0.5 U	0.9	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.0 J		
MW-21-Screen-3	Jan/Feb 2018	MW-21-3	0.5 U	0.7	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.4 J		
MW-21-Screen-3	April 2018	MW-21-3	0.5 U	0.9	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	4.0 U		
MW-21-Screen-3	April 2018	DUP-2-2Q18	0.5 U	1.1	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5	3.8 J		
MW-21-Screen-3	Jul/Aug 2018	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	2.3 J		
MW-21-Screen-4													
MW-21-Screen-4	Jul/Aug 2017	MW-21-4	0.5 U	0.3 J	1.2	0.5 U	0.5 U	0.5 U	0.5 U	5.6	2.3 J		
MW-21-Screen-4	October 2017	MW-21-4	0.5 U	0.2 J	1.2	0.5 U	0.5 U	0.5 U	0.5 U	4.6	1.4 J		
MW-21-Screen-4	Jan/Feb 2018	MW-21-4	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	4.6	4.2		
MW-21-Screen-4	April 2018	MW-21-4	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	5.2	2.6 J		
MW-21-Screen-4	Jul/Aug 2018	MW-21-4	0.5 U	0.9	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	5.0	1.5 J		
MW-21-Screen-5													
MW-21-Screen-5	Jul/Aug 2017	MW-21-5	0.5 U	0.5 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	5.9	2.3 J		
MW-21-Screen-5	October 2017	MW-21-5	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	5.7	1.5 J		
MW-21-Screen-5	Jan/Feb 2018	MW-21-5	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	5.3	2.3 J		
MW-21-Screen-5	April 2018	MW-21-5	0.5 U	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	5.1	2.5 J		
MW-21-Screen-5	Jul/Aug 2018	MW-21-5	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.6	1.3 J		
MW-22-Screen-1													
MW-22-Screen-1	Jul/Aug 2017	MW-22-1	0.5 U	0.7	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	5.6		
MW-22-Screen-1	October 2017	MW-22-1	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	3.0 J		
MW-22-Screen-1	Jan/Feb 2018	MW-22-1	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.5 J		
MW-22-Screen-1	Jan/Feb 2018	Dup-4-1Q18	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.2 J		
MW-22-Screen-1	April 2018	MW-22-1	0.5 U	0.7	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.6 J		
MW-22-Screen-1	Jul/Aug 2018	MW-22-1	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.7 J		
MW-22-Screen-2													
MW-22-Screen-2	Jul/Aug 2017	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	4.3		
MW-22-Screen-2	October 2017	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	2.7 J		
MW-22-Screen-2	Jan/Feb 2018	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	2.8 J		
MW-22-Screen-2	April 2018	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	2.1 J		
MW-22-Screen-2	Jul/Aug 2018	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	2.1 J		
MW-22-Screen-3													
MW-22-Screen-3	Jul/Aug 2017	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	2.3 J		
MW-22-Screen-3	October 2017	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	2.1 J		
MW-22-Screen3	October 2017	DUP-4-4Q17	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-3	Jan/Feb 2018	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	2.5 J		
MW-22-Screen-3	April 2018	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	1.2 J	Carbon disulfide	0.5 J
MW-22-Screen-3	April 2018	DUP-3-2Q18	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		

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-3	Jul/Aug 2018	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	1.5 J		
MW-22-Screen-4													
MW-22-Screen-4	Apr/May 2017	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	2.0 J		
MW-22-Screen-4	October 2017	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	0.6 J		
MW-22-Screen-4	April 2018	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	0.8 J	Carbon disulfide	0.6 J
MW-22-Screen-5													
MW-22-Screen-5	Apr/May 2017	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	October 2017	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	April 2018	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-23-Screen-1													
MW-23-Screen-1	Jul/Aug 2017	MW-23-1	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.9 J		
MW-23-Screen-1	October 2017	MW-23-1	0.5 U	3.4	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.9	3.8 J		
MW-23-Screen-1	Jan/Feb 2018	MW-23-1	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.3		
MW-23-Screen-1	April 2018	MW-23-1	0.5 U	1.8	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.4 J		
MW-23-Screen-1	Jul/Aug 2018	MW-23-1	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.2 J		
MW-23-Screen-1	Jul/Aug 2018	Dup-4-3Q18	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2.5 J		
MW-23-Screen-2													
MW-23-Screen-2	Jul/Aug 2017	MW-23-2	0.5 U	4.0	0.9	0.3 J	0.5 U	0.5 U	0.5 U	0.8	3.9 J		
MW-23-Screen-2	Jul/Aug 2017	DUP-3-3Q17	0.5 U	4.1	0.8	0.3 J	0.5 U	0.5 U	0.5 U	0.9	4.7		
MW-23-Screen-2	October 2017	MW-23-2	0.5 U	1.1	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	4.2		
MW-23-Screen-2	Jan/Feb 2018	MW-23-2	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	5.1		
MW-23-Screen-2	April 2018	MW-23-2	0.5 U	1.1	0.4 J	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	3.5 J		
MW-23-Screen-2	Jul/Aug 2018	MW-23-2	0.5 U	0.3 J	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	3.6 J		
MW-23-Screen-3													
MW-23-Screen-3	Jul/Aug 2017	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	2.7 J		
MW-23-Screen-3	October 2017	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	2.8 J		
MW-23-Screen-3	Jan/Feb 2018	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	3.2 J		
MW-23-Screen-3	April 2018	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	2.2 J		
MW-23-Screen-3	Jul/Aug 2018	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	2.0 J		
MW-23-Screen-4													
MW-23-Screen-4	Apr/May 2017	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	0.9 J		
MW-23-Screen-4	Apr/May 2017	DUP-7-2Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 J		
MW-23-Screen-4	October 2017	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	April 2018	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	1.4 J		
MW-23-Screen-5													
MW-23-Screen-5	Apr/May 2017	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-23-Screen-5	October 2017	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	April 2018	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-24-Screen-1													
MW-24-Screen-1	Jul/Aug 2017	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	12.0		

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-1	October 2017	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	3.1 J	Bromodichloromethane	0.3 J
MW-24-Screen-1	Jan/Feb 2018	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.3	16.0		
MW-24-Screen-1	April 2018	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	36.0		
MW-24-Screen-1	Jul/Aug 2018	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6	0.6 J		
MW-24-Screen-1	Jul/Aug 2018	Dup-3-3Q18	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.7 J		
MW-24-Screen-2													
MW-24-Screen-2	Jul/Aug 2017	MW-24-2	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.2 J	1.9 J		
MW-24-Screen-2	October 2017	MW-24-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	2.2 J		
MW-24-Screen-2	Jan/Feb 2018	MW-24-2	0.5 U	0.5 U	0.5 U	0.2 J	1.0	0.5 U	0.5 U	0.5 U	2.2 J		
MW-24-Screen-2	April 2018	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	3.7 J		
MW-24-Screen-2	Jul/Aug 2018	MW-24-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.5 J		
MW-24-Screen-3													
MW-24-Screen-3	Jul/Aug 2017	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	October 2017	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	Jan/Feb 2018	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	April 2018	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	Carbon disulfide	0.9 J
MW-24-Screen-3	Jul/Aug 2018	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-4													
MW-24-Screen-4	Apr/May 2017	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	2.2 J	Ethylbenzene Styrene	0.2 J 0.3 J
MW-24-Screen-4	October 2017	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	0.2 J
MW-24-Screen-4	April 2018	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	0.2 J
MW-24-Screen-5													
MW-24-Screen-5	Apr/May 2017	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	October 2017	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	April 2018	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	Jul/Aug 2017	MW-25-1	0.5 U	1.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	7.2	Methyl-tert-butyl ether (MTBE)	0.5 J
MW-25-Screen-1	October 2017	MW-25-1	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	7.1	Methyl-tert-butyl ether (MTBE)	0.5 J
MW-25-Screen-1	Jan/Feb 2018	MW-25-1	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	6.0	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-1	April 2018	MW-25-1	0.5 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	9.1	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-1	Jul/Aug 2018	MW-25-1	0.5 U	0.5 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	7.1	Methyl-tert-butyl ether (MTBE)	0.5 J
MW-25-Screen-1	Jul/Aug 2018	DUP-2-3Q18	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	6.1	Methyl-tert-butyl ether (MTBE)	0.4 J
MW-25-Screen-2													
MW-25-Screen-2	Jul/Aug 2017	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	12.0		
MW-25-Screen-2	October 2017	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	12.0		
MW-25-Screen 2	October 2017	DUP-2-4Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	12.0		
MW-25-Screen-2	Jan/Feb 2018	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	12.0		
MW-25-Screen-2	April 2018	MW-25-2	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	12.0		
MW-25-Screen-2	Jul/Aug 2018	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	13.0		

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-25-Screen-3													
MW-25-Screen-3	Jul/Aug 2017	MW-25-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	8.4		
MW-25-Screen-3	October 2017	MW-25-3	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	9.8		
MW-25-Screen-3	Jan/Feb 2018	MW-25-3	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	9.1		
MW-25-Screen-3	April 2018	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	9.0	Carbon disulfide	0.9 J
MW-25-Screen-3	Jul/Aug 2018	MW-25-3	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	8.8		
MW-25-Screen-4													
MW-25-Screen-4	Jul/Aug 2017	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	7.5		
MW-25-Screen-4	October 2017	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	8.1		
MW-25-Screen-4	Jan/Feb 2018	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	6.9		
MW-25-Screen-4	April 2018	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	9.0	Carbon disulfide	0.7 J
MW-25-Screen-4	Jul/Aug 2018	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	8.3	Carbon disulfide	0.9 J
MW-25-Screen-5													
MW-25-Screen-5	Jul/Aug 2017	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	4.0 U		
MW-25-Screen-5	October 2017	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	4.0 U		
MW-25-Screen-5	Jan/Feb 2018	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	4.0 U		
MW-25-Screen-5	April 2018	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	4.0 U		
MW-25-Screen-5	Jul/Aug 2018	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	4.0 U		
MW-26-Screen-1													
MW-26-Screen-1	Jul/Aug 2017	MW-26-1	0.5 U	0.2 J	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2.4 J		
MW-26-Screen-1	October 2017	MW-26-1	0.5 U	0.2 J	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.7 J		
MW-26-Screen-1	Jan/Feb 2018	MW-26-1	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.3 J		
MW-26-Screen-1	April 2018	MW-26-1	0.5 U	0.5 J	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5	1.6 J		
MW-26-Screen-1	April 2018	DUP-4-2Q18	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.7 J		
MW-26-Screen-1	Jul/Aug 2018	MW-26-1	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	4.0 U		
MW-26-Screen-2													
MW-26-Screen-2	Jul/Aug 2017	MW-26-2	0.5 U	0.3 J	1.8	0.5 U	0.5 U	0.5 U	0.5 U	1.3	3.9 J		
MW-26-Screen-2	October 2017	MW-26-2	0.5 U	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	1.3	2.5 J	Bromodichloromethane	0.2 J
												cis-1,2-Dichloroethene	0.3 J
MW-26-Screen-2	Jan/Feb 2018	MW-26-2	0.5 U	0.4 J	2.7	0.5 U	0.5 U	0.5 U	0.5 U	2.0	3.2 J	cis-1,2-Dichloroethene	0.3 J
MW-26-Screen-2	Jan/Feb 2018	DUP-2-1Q18	0.5 U	0.2 J	2.3	0.5 U	0.5 U	0.5 U	0.5 U	1.4	3.0 J		
MW-26-Screen-2	April 2018	MW-26-2	0.5 U	0.3 J	2.3	0.5 U	0.5 U	0.5 U	0.5 U	1.9	2.1 J	cis-1,2-Dichloroethene	0.3 J
MW-26-Screen-2	Jul/Aug 2018	MW-26-2	0.5 U	1.8	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	1.8	4.0 U	Bromodichloromethane	0.2 J
												cis-1,2-Dichloroethene	0.3 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
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	Apr/May 2017	MW-1	2.0 U	1.0 U	3.0 UJ	0.8 J
MW-1	October 2017	MW-1	NA	NA	3.0 J	2.0 U
MW-1	October 2017	DUP-8-4Q17	NA	NA	3.0 J	2.0 U
MW-1	April 2018	MW-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-3-Screen-1						
MW-3-Screen-1	Apr/May 2017	MW-3-1	2.0 U	1.0 U	0.8 J	2.0 U
MW-3-Screen-1	Apr/May 2017	MW-3-1	2.0 U	1.0 U	0.8 J	2.0 U
MW-3-Screen-1	October 2017	MW-3-1	NA	NA	3.0 U	2.0 U
MW-3-Screen-1	April 2018	MW-3-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-3-Screen-2						
MW-3-Screen-2	Jul/Aug 2017	MW-3-2	NA	NA	3.0 U	2.0 U
MW-3-Screen-2	October 2017	MW-3-2	NA	NA	3.0 U	2.0 U
MW-3-Screen-2	Jan/Feb 2018	MW-3-2	NA	NA	1.4 J	2.0 U
MW-3-Screen-2	April 2018	MW-3-2	2.0 U	1.0 UJ	3.0 U	2.0 U
MW-3-Screen-2	Jul/Aug 2018	MW-3-2	NA	NA	3.0 U	2.0 U
MW-3-Screen-3						
MW-3-Screen-3	Jul/Aug 2017	MW-3-3	NA	NA	2.4 U	1.3 J
MW-3-Screen-3	October 2017	MW-3-3	NA	NA	2.4 J	2.1
MW-3-Screen-3	Jan/Feb 2018	MW-3-3	NA	NA	2.1 J	0.9 J
MW-3-Screen-3	April 2018	MW-3-3	2.0 U	1.0 UJ	3.0 U	2.0 U
MW-3-Screen-3	Jul/Aug 2018	MW-3-3	NA	NA	3.0 U	1.1 J
MW-3-Screen-4						
MW-3-Screen-4	Jul/Aug 2017	MW-3-4	NA	NA	38.0	2.0 U
MW-3-Screen-4	October 2017	MW-3-4	NA	NA	20.0	2.0 U
MW-3-Screen-4	Jan/Feb 2018	MW-3-4	NA	NA	31.0	2.0 U
MW-3-Screen-4	April 2018	MW-3-4	6.0	1.0 UJ	11.0	2.0 U
MW-3-Screen-4	Jul/Aug 2018	MW-3-4	NA	NA	12.0	2.0 U
MW-3-Screen-5						
MW-3-Screen-5	Apr/May 2017	MW-3-5	3.3	1.0 U	5.2	2.0 U
MW-3-Screen-5	October 2017	MW-3-5	NA	NA	11.0	2.0 U
MW-3-Screen-5	April 2018	MW-3-5	2.0 U	1.0 UJ	3.0 U	2.0 U
MW-4-Screen-1						
MW-4-Screen-1	Jul/Aug 2017	MW-4-1	NA	NA	1.8 U	2.0 U
MW-4-Screen-1	October 2017	MW-4-1	NA	NA	3.0 UJ	2.0 U
MW-4-Screen-1	Jan/Feb 2018	MW-4-1	NA	NA	3.0 U	2.0 U
MW-4-Screen-1	April 2018	MW-4-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-4-Screen-1	Jul/Aug 2018	MW-4-1	NA	NA	3.0 U	2.0 U
MW-4-Screen-2						
MW-4-Screen-2	Jul/Aug 2017	MW-4-2	NA	NA	4.2	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-4-Screen-2	October 2017	MW-4-2	NA	NA	1.6 J	2.0 U
MW-4-Screen-2	Jan/Feb 2018	MW-4-2	NA	NA	3.0 U	2.0 U
MW-4-Screen-2	April 2018	MW-4-2	2.0 U	1.0 U	1.9 J	1.8 J
MW-4-Screen-2	Jul/Aug 2018	MW-4-2	NA	NA	1.5 J	2.0 U
MW-4-Screen-3						
MW-4-Screen-3	Jul/Aug 2017	MW-4-3	NA	NA	8.6	2.0 U
MW-4-Screen-3	October 2017	MW-4-3	NA	NA	87.0 J	2.0 U
MW-4-Screen-3	Jan/Feb 2018	MW-4-3	NA	NA	3.0 U	2.0 U
MW-4-Screen-3	April 2018	MW-4-3	2.0 U	1.0 U	2.8 J	2.0 U
MW-4-Screen-3	Jul/Aug 2018	MW-4-3	NA	NA	0.6 J	2.0 U
MW-4-Screen-4						
MW-4-Screen-4	Apr/May 2017	MW-4-4	2.0 U	1.0 U	3.0 U	2.0 U
MW-4-Screen-4	October 2017	MW-4-4	NA	NA	0.6 J	2.0 U
MW-4-Screen-4	April 2018	MW-4-4	2.0 U	1.0 U	0.6 J	2.0 U
MW-4-Screen-5						
MW-4-Screen-5	Apr/May 2017	MW-4-5	2.0 U	1.0 U	3.0 U	2.0 U
MW-4-Screen-5	October 2017	MW-4-5	NA	NA	1.3 J	2.0 U
MW-4-Screen-5	April 2018	MW-4-5	2.0 U	1.0 U	0.7 J	2.0 U
MW-5						
MW-5	Jul/Aug 2017	MW-5	NA	NA	1.2 U	2.0 U
MW-5	October 2017	MW-5	NA	NA	1.0 J	2.0 U
MW-5	October 2017	DUP-6-4Q17	NA	NA	1.2 J	2.0 U
MW-5	Jan/Feb 2018	MW-5	NA	NA	3.0 U	2.0 U
MW-5	April 2018	MW-5	2.0 U	1.0 U	0.7 J	2.0 U
MW-5	Jul/Aug 2018	MW-5	NA	NA	3.0 U	2.0 U
MW-5	Jul/Aug 2018	DUP-5-3Q18	NA	NA	3.0 U	2.0 U
MW-6						
MW-6	Jul/Aug 2017	MW-6	NA	NA	30.0	2.0 U
MW-6	Jul/Aug 2017	DUP-7-3Q17	NA	NA	120.0	2.0
MW-6	October 2017	MW-6	NA	NA	1100.0	1.2 J
MW-6	Jan/Feb 2018	MW-6	NA	NA	90.0	1.5 J
MW-6	Jan/Feb 2018	DUP-6-1Q18	NA	NA	32.0	1.7 J
MW-6	April 2018	MW-6	2.0 U	1.0 U	24.0	1.6 J
MW-6	Jul/Aug 2018	MW-6	NA	NA	24.0	1.1 J
MW-6	Jul/Aug 2018	DUP-6-3Q18	NA	NA	52.0	1.3 J
MW-7						
MW-7	Jul/Aug 2017	MW-7	NA	NA	7400.0	1.1 J
MW-7	October 2017	MW-7	NA	NA	1200.0 J	1.3 J
MW-7	Jan/Feb 2018	MW-7	NA	NA	200.0	0.7 J
MW-7	April 2018	MW-7	1.0 J	1.0 U	54.0	4.0 U
MW-7	Jul/Aug 2018	MW-7	NA	NA	670.0	2.0 U
MW-8						
MW-8	Jul/Aug 2017	MW-8	NA	NA	1.9 U	0.8 J
MW-8	October 2017	MW-8	NA	NA	14.0 J	2.0 U
MW-8	Jan/Feb 2018	MW-8	NA	NA	3.0 U	1.4 J

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-8	April 2018	MW-8	0.9 J	1.0 U	4.6	1.2 J
MW-8	Jul/Aug 2018	MW-8	NA	NA	7.3	0.9 J
MW-8	Jul/Aug 2018	DUP-7-3Q18	NA	NA	5.3	0.8 J
MW-9						
MW-9	Apr/May 2017	MW-9	2.0 U	1.0 U	19.0 J	1.4 U
MW-9	October 2017	MW-9	NA	NA	8.9 J	2.0 U
MW-9	April 2018	MW-9	2.0 U	0.1 J	3.0	2.0 U
MW-10						
MW-10	Jul/Aug 2017	MW-10	NA	NA	3.8	2.9
MW-10	October 2017	MW-10	NA	NA	2.6 J	2.0
MW-10	Jan/Feb 2018	MW-10	NA	NA	4.9	2.3
MW-10	April 2018	MW-10	2.0 U	1.0 U	10.0	1.3 J
MW-10	Jul/Aug 2018	MW-10	NA	NA	18.0	2.8
MW-11-Screen-1						
MW-11-Screen-1	Jul/Aug 2017	MW-11-1	NA	NA	2.2 U	2.0 U
MW-11-Screen-1	October 2017	MW-11-1	NA	NA	3.0 U	2.0 UJ
MW-11-Screen-1	Jan/Feb 2018	MW-11-1	NA	NA	3.0 U	2.0 U
MW-11-Screen-1	April 2018	MW-11-1	2.0 U	0.1 J	0.9 J	2.0 U
MW-11-Screen-1	Jul/Aug 2018	MW-11-1	NA	NA	3.0 U	2.0 U
MW-11-Screen-2						
MW-11-Screen-2	Jul/Aug 2017	MW-11-2	NA	NA	2.1 U	2.0 U
MW-11-Screen-2	Jul/Aug 2017	DUP-5-3Q17	NA	NA	2.0 U	2.0 U
MW-11-Screen-2	October 2017	MW-11-2	NA	NA	3.0 U	2.0 U
MW-11-Screen-2	Jan/Feb 2018	MW-11-2	NA	NA	3.0 U	2.0 U
MW-11-Screen-2	April 2018	MW-11-2	2.0 U	1.0 U	3.0 U	2.0 U
MW-11-Screen-2	Jul/Aug 2018	MW-11-2	NA	NA	3.0 U	2.0 U
MW-11-Screen-3						
MW-11-Screen-3	Jul/Aug 2017	MW-11-3	NA	NA	2.9 U	2.0 U
MW-11-Screen-3	October 2017	MW-11-3	NA	NA	3.0 U	2.0 U
MW-11-Screen-3	Jan/Feb 2018	MW-11-3	NA	NA	3.0 U	2.0 U
MW-11-Screen-3	April 2018	MW-11-3	2.0 U	0.1 J	1.9 J	2.0 U
MW-11-Screen-3	April 2018	DUP-6-2Q18	2.0 U	1.0 U	0.8 J	2.0 U
MW-11-Screen-3	Jul/Aug 2018	MW-11-3	NA	NA	3.0 U	2.0 U
MW-11-Screen-4						
MW-11-Screen-4	Apr/May 2017	MW-11-4	2.0 U	1.0 U	1.2 J	2.0 U
MW-11-Screen-4	October 2017	MW-11-4	NA	NA	3.0 U	2.0 U
MW-11-Screen-4	April 2018	MW-11-4	2.0 U	1.0 U	3.0 U	2.0 U
MW-11-Screen-5						
MW-11-Screen-5	Apr/May 2017	MW-11-5	6.1	0.4 J	2.1 J	2.0 U
MW-11-Screen-5	October 2017	MW-11-5	NA	NA	1.3 J	2.0 U
MW-11-Screen-5	April 2018	MW-11-5	7.4	0.9 J	3.0 U	2.0 U
MW-12-Screen-1						
MW-12-Screen-1	Apr/May 2017	MW-12-1	2.0 U	1.0 U	1.8 J	2.0 U
MW-12-Screen-1	Jul/Aug 2017	MW-12-1	NA	NA	2.9 U	2.0 U
MW-12-Screen-1	April 2018	MW-12-1	2.0 U	1.0 U	3.0 U	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-12-Screen-2						
MW-12-Screen-2	Jul/Aug 2017	MW-12-2	NA	NA	1.9 U	4.0 U
MW-12-Screen-2	October 2017	MW-12-2	NA	NA	0.7 J	2.0 U
MW-12-Screen-2	Jan/Feb 2018	MW-12-2	NA	NA	3.0 U	2.0 U
MW-12-Screen-2	April 2018	MW-12-2	2.0 U	1.0 U	1.0 J	2.0 U
MW-12-Screen-2	Jul/Aug 2018	MW-12-2	NA	NA	3.0 U	2.0 U
MW-12-Screen-3						
MW-12-Screen-3	Jul/Aug 2017	MW-12-3	NA	NA	1.8 U	2.0 U
MW-12-Screen-3	Jul/Aug 2017	DUP-4-3Q17	NA	NA	2.4 U	2.0 U
MW-12-Screen-3	October 2017	MW-12-3	NA	NA	3.0 UJ	2.0 U
MW-12-Screen-3	Jan/Feb 2018	MW-12-3	NA	NA	3.0 U	2.0 U
MW-12-Screen-3	April 2018	MW-12-3	1.0 J	1.0 U	3.0 U	2.0 U
MW-12-Screen-3	April 2018	DUP-8-2Q18	2.0 U	1.0 U	0.5 J	2.0 U
MW-12-Screen-3	Jul/Aug 2018	MW-12-3	NA	NA	3.0 U	2.0 U
MW-12-Screen-4						
MW-12-Screen-4	Apr/May 2017	MW-12-4	1.4 J	1.0 U	1.1 J	0.8 J
MW-12-Screen-4	October 2017	MW-12-4	NA	NA	1.0 J	2.0 U
MW-12-Screen-4	October 2017	DUP-5-4Q17	NA	NA	0.8 J	0.7 J
MW-12-Screen-4	April 2018	MW-12-4	0.9 J	1.0 U	0.7 J	2.0 U
MW-12-Screen-5						
MW-12-Screen-5	Apr/May 2017	MW-12-5	1.8 J	1.0 U	1.8 J	1.5 J
MW-12-Screen-5	October 2017	MW-12-5	NA	NA	1.3 J	1.0 J
MW-12-Screen-5	April 2018	MW-12-5	1.9 J	0.2 J	1.4 J	2.0 U
MW-13						
MW-13	Jul/Aug 2017	MW-13	NA	NA	1300.0	2.5
MW-13	Jul/Aug 2017	DUP-6-3Q17	NA	NA	680.0	2.7
MW-13	October 2017	MW-13	NA	NA	1500.0 J	3.6
MW-13	Jan/Feb 2018	MW-13	NA	NA	3500.0	4.6
MW-13	April 2018	MW-13	2.0 U	0.5 J	170.0	2.0 U
MW-14-Screen-1						
MW-14-Screen-1	Apr/May 2017	MW-14-1	2.0 U	1.0 U	1.2 J	0.8 U
MW-14-Screen-1	Jul/Aug 2017	MW-14-1	NA	NA	1.8 U	0.9 J
MW-14-Screen-1	Jan/Feb 2018	MW-14-1	NA	NA	3.0 U	2.0 U
MW-14-Screen-1	April 2018	MW-14-1	1.0 J	1.0 U	2.3 J	1.8 J
MW-14-Screen-2						
MW-14-Screen-2	Jul/Aug 2017	MW-14-2	NA	NA	1.0 U	0.9 J
MW-14-Screen-2	October 2017	MW-14-2	NA	NA	3.0 UJ	2.0 U
MW-14-Screen-2	Jan/Feb 2018	MW-14-2	NA	NA	3.0 U	0.9 J
MW-14-Screen-2	April 2018	MW-14-2	2.0 U	1.0 U	3.0 U	0.9 J
MW-14-Screen-2	Jul/Aug 2018	MW-14-2	NA	NA	3.0 U	2.0 U
MW-14-Screen-3						
MW-14-Screen-3	Jul/Aug 2017	MW-14-3	NA	NA	1.0 U	2.0 UJ
MW-14-Screen-3	Jul/Aug 2017	DUP-2-3Q17	NA	NA	0.8 U	2.0 UJ
MW-14-Screen-3	October 2017	MW-14-3	NA	NA	3.0 UJ	2.0 U
MW-14-Screen-3	Jan/Feb 2018	MW-14-3	NA	NA	3.0 U	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-14-Screen-3	April 2018	MW-14-3	2.0 U	1.0 U	0.7 J	2.0 U
MW-14-Screen-3	Jul/Aug 2018	MW-14-3	NA	NA	3.0 U	2.0 U
MW-14-Screen-4						
MW-14-Screen-4	Apr/May 2017	MW-14-4	2.0 U	1.0 U	2.0 J	1.8 J
MW-14-Screen-4	October 2017	MW-14-4	NA	NA	2.3 J	1.8 J
MW-14-Screen-4	April 2018	MW-14-4	2.0 U	1.0 U	2.0 J	2.8
MW-14-Screen-4	April 2018	DUP-1-2Q18	2.0 U	1.0 U	3.7	2.8
MW-14-Screen-5						
MW-14-Screen-5	Apr/May 2017	MW-14-5	2.0 U	1.0 U	0.9 J	2.0 U
MW-14-Screen-5	October 2017	MW-14-5	NA	NA	0.9 J	2.0 U
MW-14-Screen-5	April 2018	MW-14-5	2.0 U	1.0 U	0.7 J	2.0 U
MW-15						
MW-15	Jul/Aug 2017	MW-15	NA	NA	5.9	2.0 U
MW-15	October 2017	MW-15	NA	NA	29.0 J	2.0 U
MW-15	Jan/Feb 2018	MW-15	NA	NA	6.8	2.0 U
MW-15	Jan/Feb 2018	DUP-7-1Q18	NA	NA	5.0	2.0 U
MW-15	April 2018	MW-15	1.0 J	1.0 U	2.8 J	2.0 U
MW-15	Jul/Aug 2018	MW-15	NA	NA	3.0 U	2.0 U
MW-16						
MW-16	Jul/Aug 2017	MW-16	NA	NA	76.0	1.6 J
MW-16	October 2017	MW-16	NA	NA	490.0 J	1.7 J
MW-16	October 2017	DUP-7-4Q17	NA	NA	1100.0 J	1.9 J
MW-16	Jan/Feb 2018	MW-16	NA	NA	4600.0	1.9 J
MW-16	April 2018	MW-16	NA	NA	NA	NA
MW-17-Screen-1						
MW-17-Screen-1	Apr/May 2017	MW-17-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-1	Apr/May 2017	MW-17-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-1	October 2017	MW-17-1	NA	NA	3.0 U	2.0 U
MW-17-Screen-1	April 2018	MW-17-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-2						
MW-17-Screen-2	Jul/Aug 2017	MW-17-2	NA	NA	3.0 U	2.0 U
MW-17-Screen-2	October 2017	MW-17-2	NA	NA	3.0 U	2.0 U
MW-17-Screen-2	Jan/Feb 2018	MW-17-2	NA	NA	3.0 U	2.0 U
MW-17-Screen-2	April 2018	MW-17-2	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-2	April 2018	DUP-5-2Q18	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-2	Jul/Aug 2018	MW-17-2	NA	NA	3.0 U	0.7 J
MW-17-Screen-3						
MW-17-Screen-3	Jul/Aug 2017	MW-17-3	NA	NA	3.0 U	2.0 U
MW-17-Screen-3	October 2017	MW-17-3	NA	NA	3.0 U	2.0 U
MW-17-Screen-3	Jan/Feb 2018	MW-17-3	NA	NA	3.0 U	2.0 U
MW-17-Screen-3	April 2018	MW-17-3	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-3	Jul/Aug 2018	MW-17-3	NA	NA	3.0 U	2.0 U
MW-17-Screen-4						
MW-17-Screen-4	Jul/Aug 2017	MW-17-4	NA	NA	0.5 U	2.0 U
MW-17-Screen-4	October 2017	MW-17-4	NA	NA	1.3 J	1.9 J

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-17-Screen-4	Jan/Feb 2018	MW-17-4	NA	NA	1.7 J	2.1
MW-17-Screen-4	Jan/Feb 2018	Dup-3-1Q18	NA	NA	1.8 J	1.8 J
MW-17-Screen-4	April 2018	MW-17-4	1.3 J	1.0 U	3.0 U	1.7 J
MW-17-Screen-4	Jul/Aug 2018	MW-17-4	NA	NA	3.0 U	0.8 J
MW-17-Screen-5						
MW-17-Screen-5	Apr/May 2017	MW-17-5	7.7	2.7	0.9 J	0.9 U
MW-17-Screen-5	October 2017	MW-17-5	NA	NA	1.4 J	1.3 J
MW-17-Screen-5	April 2018	MW-17-5	2.4	0.5 J	3.0 U	1.3 J
MW-18-Screen-2						
MW-18-Screen-2	Jul/Aug 2017	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-2	October 2017	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-2	Jan/Feb 2018	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-2	April 2018	MW-18-2	2.0 U	0.1 J	1.1 J	2.0 U
MW-18-Screen-2	Jul/Aug 2018	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-3						
MW-18-Screen-3	Jul/Aug 2017	MW-18-3	NA	NA	2.1 U	1.6 J
MW-18-Screen-3	October 2017	MW-18-3	NA	NA	1.5 J	1.2 J
MW-18-Screen-3	October 2017	DUP-3-4Q17	NA	NA	1.5 J	1.9 J
MW-18-Screen-3	Jan/Feb 2018	MW-18-3	NA	NA	2.1 J	1.1 J
MW-18-Screen-3	April 2018	MW-18-3	2.0 U	1.0 U	2.6 J	1.8 J
MW-18-Screen-3	Jul/Aug 2018	MW-18-3	NA	NA	3.0 U	1.7 J
MW-18-Screen-4						
MW-18-Screen-4	Jul/Aug 2017	MW-18-4	NA	NA	2.0 U	1.6 J
MW-18-Screen-4	October 2017	MW-18-4	NA	NA	1.7 J	1.8 J
MW-18-Screen-4	Jan/Feb 2018	MW-18-4	NA	NA	1.6 J	1.3 J
MW-18-Screen-4	April 2018	MW-18-4	2.0 U	1.0 U	2.6 J	2.2
MW-18-Screen-4	Jul/Aug 2018	MW-18-4	NA	NA	3.0 U	2.0
MW-18-Screen-5						
MW-18-Screen-5	Apr/May 2017	MW-18-5	2.0 U	1.0 U	1.5 J	2.0 U
MW-18-Screen-5	Apr/May 2017	MW-18-5	2.0 U	1.0 U	1.5 J	2.0 U
MW-18-Screen-5	October 2017	MW-18-5	NA	NA	3.0 U	2.0 U
MW-18-Screen-5	April 2018	MW-18-5	2.0 U	1.0 U	3.0 U	2.0 U
MW-19-Screen-1						
MW-19-Screen-1	Apr/May 2017	MW-19-1	2.0 U	1.0 U	0.7 J	2.0 U
MW-19-Screen-1	October 2017	MW-19-1	NA	NA	3.0 U	2.0 U
MW-19-Screen-1	April 2018	MW-19-1	2.0 U	1.0 U	0.7 J	2.0 U
MW-19-Screen-2						
MW-19-Screen-2	Apr/May 2017	MW-19-2	2.0 U	1.0 U	2.3 J	2.0 U
MW-19-Screen-2	October 2017	MW-19-2	NA	NA	2.4 J	0.7 J
MW-19-Screen-2	April 2018	MW-19-2	2.0 U	1.0 U	2.0 J	2.0 U
MW-19-Screen-3						
MW-19-Screen-3	Apr/May 2017	MW-19-3	2.0 U	1.0 U	3.1	1.3 J
MW-19-Screen-3	October 2017	MW-19-3	NA	NA	2.5 J	1.2 J
MW-19-Screen-3	April 2018	MW-19-3	2.0 U	1.0 U	2.6 J	2.0

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-19-Screen-4						
MW-19-Screen-4	Apr/May 2017	MW-19-4	0.7 J	1.0 U	2.7 J	1.5 J
MW-19-Screen-4	October 2017	MW-19-4	NA	NA	1.9 J	1.5 J
MW-19-Screen-4	April 2018	MW-19-4	2.0 U	1.0 U	1.8 J	1.8 J
MW-19-Screen-5						
MW-19-Screen-5	Apr/May 2017	MW-19-5	1.1 J	1.0 U	1.5 J	2.0 U
MW-19-Screen-5	October 2017	MW-19-5	NA	NA	3.7	2.0
MW-19-Screen-5	April 2018	MW-19-5	1.7 J	1.0 U	2.4 J	1.9 J
MW-20-Screen-1						
MW-20-Screen-1	Jul/Aug 2017	MW-20-1	NA	NA	1.7 U	2.0 UJ
MW-20-Screen-1	Jul/Aug 2017	MW-20-1	NA	NA	3.0 U	2.0 UJ
MW-20-Screen-2						
MW-20-Screen-2	Jul/Aug 2017	MW-20-2	NA	NA	1.2 U	2.0 UJ
MW-20-Screen-2	October 2017	MW-20-2	NA	NA	3.0 U	2.0 U
MW-20-Screen-2	Jan/Feb 2018	MW-20-2	NA	NA	3.0 U	2.0 U
MW-20-Screen-2	April 2018	MW-20-2	2.0 U	1.0 U	0.6 J	2.0 U
MW-20-Screen-2	April 2018	DUP-7-2Q18	2.0 U	1.0 U	3.0 U	2.0 U
MW-20-Screen-2	Jul/Aug 2018	MW-20-2	NA	NA	3.0 U	2.0 U
MW-20-Screen-3						
MW-20-Screen-3	Jul/Aug 2017	MW-20-3	NA	NA	1.2 U	2.0 UJ
MW-20-Screen-3	Jul/Aug 2017	DUP-1-3Q17	NA	NA	1.4 U	2.0 UJ
MW-20-Screen-3	October 2017	MW-20-3	NA	NA	3.0 U	2.0 U
MW-20-Screen-3	October 2017	DUP-1-4Q17	NA	NA	0.7 J	2.0 U
MW-20-Screen-3	Jan/Feb 2018	MW-20-3	NA	NA	3.0 U	2.0 U
MW-20-Screen-3	April 2018	MW-20-3	1.3 J	1.0 U	0.7 J	2.0 U
MW-20-Screen-3	Jul/Aug 2018	MW-20-3	NA	NA	3.0 U	2.0 U
MW-20-Screen-4						
MW-20-Screen-4	Jul/Aug 2017	MW-20-4	NA	NA	1.7 U	2.0 UJ
MW-20-Screen-4	October 2017	MW-20-4	NA	NA	3.0 U	2.0 U
MW-20-Screen-4	Jan/Feb 2018	MW-20-4	NA	NA	3.0 U	2.0 U
MW-20-Screen-4	April 2018	MW-20-4	1.4 J	1.0 U	3.0 U	2.0 U
MW-20-Screen-4	Jul/Aug 2018	MW-20-4	NA	NA	3.0 U	2.0 U
MW-20-Screen-5						
MW-20-Screen-5	Jul/Aug 2017	MW-20-5	NA	NA	1.3 U	2.0 UJ
MW-20-Screen-5	October 2017	MW-20-5	NA	NA	3.0 U	2.0 U
MW-20-Screen-5	Jan/Feb 2018	MW-20-5	NA	NA	3.0 U	2.0 U
MW-20-Screen-5	Jan/Feb 2018	DUP-1-1Q18	NA	NA	3.0 U	2.0 U
MW-20-Screen-5	April 2018	MW-20-5	1.7 J	1.0 U	3.0 U	2.0 U
MW-20-Screen-5	Jul/Aug 2018	MW-20-5	NA	NA	3.0 U	2.0 U
MW-21-Screen-1						
MW-21-Screen-1	Jul/Aug 2017	MW-21-1	NA	NA	3.1 U	1.8 J
MW-21-Screen-2						
MW-21-Screen-2	Jul/Aug 2017	MW-21-2	NA	NA	1.8 U	2.0 U
MW-21-Screen-2	October 2017	MW-21-2	NA	NA	3.0 U	2.0 U
MW-21-Screen-2	Jan/Feb 2018	MW-21-2	NA	NA	3.0 U	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-21-Screen-2	April 2018	MW-21-2	2.0 U	1.0 UJ	3.0 U	2.0 U
MW-21-Screen-2	Jul/Aug 2018	MW-21-2	NA	NA	3.0 U	2.0 U
MW-21-Screen-3						
MW-21-Screen-3	Jul/Aug 2017	MW-21-3	NA	NA	4.2	2.0 U
MW-21-Screen-3	October 2017	MW-21-3	NA	NA	3.0 U	2.0 U
MW-21-Screen-3	Jan/Feb 2018	MW-21-3	NA	NA	3.0 U	2.0 U
MW-21-Screen-3	April 2018	MW-21-3	2.0 U	1.0 U	3.0 U	2.0 U
MW-21-Screen-3	April 2018	DUP-2-2Q18	2.0 U	1.0 U	3.0 U	2.0 U
MW-21-Screen-3	Jul/Aug 2018	MW-21-3	NA	NA	3.0 U	2.0 U
MW-21-Screen-4						
MW-21-Screen-4	Jul/Aug 2017	MW-21-4	NA	NA	3.0 U	1.3 J
MW-21-Screen-4	October 2017	MW-21-4	NA	NA	1.0 J	1.1 J
MW-21-Screen-4	Jan/Feb 2018	MW-21-4	NA	NA	7.6	1.2 J
MW-21-Screen-4	April 2018	MW-21-4	2.0 U	0.2 J	3.0 U	1.3 J
MW-21-Screen-4	Jul/Aug 2018	MW-21-4	NA	NA	3.0 U	1.0 J
MW-21-Screen-5						
MW-21-Screen-5	Jul/Aug 2017	MW-21-5	NA	NA	2.6 U	1.4 J
MW-21-Screen-5	October 2017	MW-21-5	NA	NA	1.2 J	1.2 J
MW-21-Screen-5	Jan/Feb 2018	MW-21-5	NA	NA	3.0 U	1.4 J
MW-21-Screen-5	April 2018	MW-21-5	2.0 U	1.0 U	3.0 U	2.0
MW-21-Screen-5	Jul/Aug 2018	MW-21-5	NA	NA	3.0 U	1.3 J
MW-22-Screen-1						
MW-22-Screen-1	Jul/Aug 2017	MW-22-1	NA	NA	2.5 U	2.0 U
MW-22-Screen-1	October 2017	MW-22-1	NA	NA	0.8 J	2.0 U
MW-22-Screen-1	Jan/Feb 2018	MW-22-1	NA	NA	3.0 U	2.0 U
MW-22-Screen-1	Jan/Feb 2018	Dup-4-1Q18	NA	NA	3.0 U	2.0 U
MW-22-Screen-1	April 2018	MW-22-1	2.0 U	1.0 U	1.0 J	2.0 U
MW-22-Screen-1	Jul/Aug 2018	MW-22-1	NA	NA	3.0 U	0.9 J
MW-22-Screen-2						
MW-22-Screen-2	Jul/Aug 2017	MW-22-2	NA	NA	3.2	1.3 J
MW-22-Screen-2	October 2017	MW-22-2	NA	NA	1.6 J	1.7 J
MW-22-Screen-2	Jan/Feb 2018	MW-22-2	NA	NA	3.0 U	2.4
MW-22-Screen-2	April 2018	MW-22-2	2.0 U	1.0 U	2.0 J	1.8 J
MW-22-Screen-2	Jul/Aug 2018	MW-22-2	NA	NA	3.0 U	2.0
MW-22-Screen-3						
MW-22-Screen-3	Jul/Aug 2017	MW-22-3	NA	NA	3.1	2.3
MW-22-Screen-3	October 2017	MW-22-3	NA	NA	2.4 J	2.4
MW-22-Screen-3	October 2017	DUP-4-4Q17	NA	NA	2.4 J	2.5
MW-22-Screen-3	Jan/Feb 2018	MW-22-3	NA	NA	3.0 U	2.8
MW-22-Screen-3	April 2018	MW-22-3	2.0 U	1.0 U	2.2 J	2.0
MW-22-Screen-3	April 2018	DUP-3-2Q18	2.0 U	1.0 U	2.6 J	1.6 J
MW-22-Screen-3	Jul/Aug 2018	MW-22-3	NA	NA	3.0 U	1.9 J
MW-22-Screen-4						
MW-22-Screen-4	Apr/May 2017	MW-22-4	0.8 J	1.0 U	2.9 J	2.9 U
MW-22-Screen-4	October 2017	MW-22-4	NA	NA	2.4 J	2.5

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-22-Screen-4	April 2018	MW-22-4	2.0 U	1.0 U	3.1	2.6
MW-22-Screen-5						
MW-22-Screen-5	Apr/May 2017	MW-22-5	2.0 U	1.0 U	0.7 J	2.0 U
MW-22-Screen-5	October 2017	MW-22-5	NA	NA	3.0 U	2.0 U
MW-22-Screen-5	April 2018	MW-22-5	2.0 U	1.0 U	3.0 U	2.0 U
MW-23-Screen-1						
MW-23-Screen-1	Jul/Aug 2017	MW-23-1	NA	NA	2.0 J	2.0 U
MW-23-Screen-1	October 2017	MW-23-1	NA	NA	0.9 J	2.0 U
MW-23-Screen-1	Jan/Feb 2018	MW-23-1	NA	NA	3.0 U	0.7 J
MW-23-Screen-1	April 2018	MW-23-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-23-Screen-1	Jul/Aug 2018	MW-23-1	NA	NA	1.3 J	2.0 U
MW-23-Screen-1	Jul/Aug 2018	Dup-4-3Q18	NA	NA	1.5 J	1.1 J
MW-23-Screen-2						
MW-23-Screen-2	Jul/Aug 2017	MW-23-2	NA	NA	2.2 J	1.1 J
MW-23-Screen-2	Jul/Aug 2017	DUP-3-3Q17	NA	NA	2.2 J	1.0 J
MW-23-Screen-2	October 2017	MW-23-2	NA	NA	1.1 J	1.0 J
MW-23-Screen-2	Jan/Feb 2018	MW-23-2	NA	NA	3.0 U	0.8 J
MW-23-Screen-2	April 2018	MW-23-2	2.0 U	1.0 U	3.0 U	0.8 J
MW-23-Screen-2	Jul/Aug 2018	MW-23-2	NA	NA	1.6 J	0.9 J
MW-23-Screen-3						
MW-23-Screen-3	Jul/Aug 2017	MW-23-3	NA	NA	3.8	2.9
MW-23-Screen-3	October 2017	MW-23-3	NA	NA	3.0	3.0
MW-23-Screen-3	Jan/Feb 2018	MW-23-3	NA	NA	3.4	2.0 U
MW-23-Screen-3	April 2018	MW-23-3	2.0 U	1.0 U	3.0 U	3.2
MW-23-Screen-3	Jul/Aug 2018	MW-23-3	NA	NA	3.6	3.3
MW-23-Screen-4						
MW-23-Screen-4	Jul/Aug 2017	MW-23-4	NA	NA	3.7	3.1
MW-23-Screen-4	October 2017	MW-23-4	NA	NA	3.2	3.5
MW-23-Screen-4	Jan/Feb 2018	MW-23-4	NA	NA	3.1	3.0
MW-23-Screen-4	Jan/Feb 2018	DUP-5-1Q18	NA	NA	3.4	2.8
MW-23-Screen-4	April 2018	MW-23-4	2.0 U	1.0 U	3.0 U	3.9
MW-23-Screen-4	Jul/Aug 2018	MW-23-4	NA	NA	3.4	3.1
MW-23-Screen-5						
MW-23-Screen-5	Apr/May 2017	MW-23-5	2.6	0.3 J	0.6 J	2.0 U
MW-23-Screen-5	October 2017	MW-23-5	NA	NA	3.0 UJ	2.0 U
MW-23-Screen-5	April 2018	MW-23-5	1.7 J	0.2 J	3.0 U	2.0 U
MW-24-Screen-1						
MW-24-Screen-1	Jul/Aug 2017	MW-24-1	NA	NA	4.6	2.0 U
MW-24-Screen-1	October 2017	MW-24-1	NA	NA	1.1 J	2.0 U
MW-24-Screen-1	Jan/Feb 2018	MW-24-1	NA	NA	3.0 U	2.0 U
MW-24-Screen-1	April 2018	MW-24-1	2.0 U	1.0 U	1.7 J	2.0 U
MW-24-Screen-1	Jul/Aug 2018	MW-24-1	NA	NA	2.8 J	2.0 U
MW-24-Screen-1	Jul/Aug 2018	Dup-3-3Q18	NA	NA	3.1	2.0 U
MW-24-Screen-2						
MW-24-Screen-2	Jul/Aug 2017	MW-24-2	NA	NA	3.9	1.8 J

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-24-Screen-2	October 2017	MW-24-2	NA	NA	1.9 J	1.9 J
MW-24-Screen-2	Jan/Feb 2018	MW-24-2	NA	NA	3.0 U	1.9 J
MW-24-Screen-2	April 2018	MW-24-2	2.3	1.0 U	1.3 J	2.3
MW-24-Screen-2	Jul/Aug 2018	MW-24-2	NA	NA	2.4 J	2.0 U
MW-24-Screen-3						
MW-24-Screen-3	Jul/Aug 2017	MW-24-3	NA	NA	2.3 U	2.0 U
MW-24-Screen-3	October 2017	MW-24-3	NA	NA	0.6 J	2.0 U
MW-24-Screen-3	Jan/Feb 2018	MW-24-3	NA	NA	3.0 U	2.0 U
MW-24-Screen-3	April 2018	MW-24-3	2.4	1.0 U	0.9 J	2.0 U
MW-24-Screen-3	Jul/Aug 2018	MW-24-3	NA	NA	1.9 UJ	2.0 U
MW-24-Screen-4						
MW-24-Screen-4	Jul/Aug 2017	MW-24-4	NA	NA	2.2 U	2.0 U
MW-24-Screen-4	October 2017	MW-24-4	NA	NA	0.5 J	2.5
MW-24-Screen-4	Jan/Feb 2018	MW-24-4	NA	NA	3.0 U	10.0 U
MW-24-Screen-4	April 2018	MW-24-4	1.1 J	1.0 U	0.8 J	2.0 U
MW-24-Screen-4	Jul/Aug 2018	MW-24-4	NA	NA	2.1 UJ	2.0 U
MW-24-Screen-5						
MW-24-Screen-5	Apr/May 2017	MW-24-5	1.8 J	1.0 U	3.8	2.2 U
MW-24-Screen-5	October 2017	MW-24-5	NA	NA	3.0	2.0 U
MW-24-Screen-5	April 2018	MW-24-5	1.7 J	0.2 J	3.9	2.9
MW-25-Screen-1						
MW-25-Screen-1	Jul/Aug 2017	MW-25-1	NA	NA	3.1	2.0 UJ
MW-25-Screen-1	October 2017	MW-25-1	NA	NA	1.8 J	2.0 U
MW-25-Screen-1	October 2017	DUP-2-4Q17	NA	NA	2.6 J	2.1
MW-25-Screen-1	Jan/Feb 2018	MW-25-1	NA	NA	3.0 U	2.0 U
MW-25-Screen-1	April 2018	MW-25-1	0.9 J	0.1 J	2.4 J	2.0 U
MW-25-Screen-1	Jul/Aug 2018	MW-25-1	NA	NA	3.0 U	2.0 U
MW-25-Screen-1	Jul/Aug 2018	DUP-2-3Q18	NA	NA	3.0 U	2.0 U
MW-25-Screen-2						
MW-25-Screen-2	Jul/Aug 2017	MW-25-2	NA	NA	4.2	3.1 J
MW-25-Screen-2	October 2017	MW-25-2	NA	NA	3.0 J	2.7
MW-25-Screen-2	Jan/Feb 2018	MW-25-2	NA	NA	8.8	1.5 J
MW-25-Screen-2	April 2018	MW-25-2	0.8 J	1.0 U	2.4 J	2.1
MW-25-Screen-2	Jul/Aug 2018	MW-25-2	NA	NA	3.0 U	3.5
MW-25-Screen-3						
MW-25-Screen-3	Jul/Aug 2017	MW-25-3	NA	NA	4.1	3.3 J
MW-25-Screen-3	October 2017	MW-25-3	NA	NA	3.1 J	3.2
MW-25-Screen-3	Jan/Feb 2018	MW-25-3	NA	NA	3.0 U	2.5
MW-25-Screen-3	April 2018	MW-25-3	1.4 J	0.2 J	3.9	2.2
MW-25-Screen-3	Jul/Aug 2018	MW-25-3	NA	NA	3.0 U	3.5
MW-25-Screen-4						
MW-25-Screen-4	Jul/Aug 2017	MW-25-4	NA	NA	2.3 U	1.1 J
MW-25-Screen-4	October 2017	MW-25-4	NA	NA	1.7 J	1.6 J
MW-25-Screen-4	Jan/Feb 2018	MW-25-4	NA	NA	3.0 U	0.9 J
MW-25-Screen-4	April 2018	MW-25-4	2.0 U	1.0 U	1.7 J	0.8 J

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-25-Screen-4	Jul/Aug 2018	MW-25-4	NA	NA	3.0 U	1.1 J
MW-25-Screen-5						
MW-25-Screen-5	Jul/Aug 2017	MW-25-5	NA	NA	0.8 U	2.0 UJ
MW-25-Screen-5	October 2017	MW-25-5	NA	NA	3.0 UJ	2.0 U
MW-25-Screen-5	Jan/Feb 2018	MW-25-5	NA	NA	3.0 U	2.0 U
MW-25-Screen-5	April 2018	MW-25-5	0.9 J	1.0 U	3.0 U	2.0 U
MW-25-Screen-5	Jul/Aug 2018	MW-25-5	NA	NA	3.0 U	2.0 U
MW-26-Screen-1						
MW-26-Screen-1	Jul/Aug 2017	MW-26-1	NA	NA	1.6 J	2.0 U
MW-26-Screen-1	October 2017	MW-26-1	NA	NA	3.0 U	2.0 U
MW-26-Screen-1	Jan/Feb 2018	MW-26-1	NA	NA	3.0 U	2.0 U
MW-26-Screen-1	April 2018	MW-26-1	2.0 U	1.0 U	0.7 J	2.0 U
MW-26-Screen-1	April 2018	DUP-4-2Q18	2.0 U	1.0 U	0.8 J	2.0 U
MW-26-Screen-1	Jul/Aug 2018	MW-26-1	NA	NA	3.0 U	2.0 U
MW-26-Screen-2						
MW-26-Screen-2	Jul/Aug 2017	MW-26-2	NA	NA	3.0	1.3 J
MW-26-Screen-2	October 2017	MW-26-2	NA	NA	1.4 J	1.5 J
MW-26-Screen-2	Jan/Feb 2018	MW-26-2	NA	NA	3.0 U	2.0 U
MW-26-Screen-2	Jan/Feb 2018	DUP-2-1Q18	NA	NA	3.0 U	0.8 J
MW-26-Screen-2	April 2018	MW-26-2	2.0 U	1.0 U	0.6 J	2.0
MW-26-Screen-2	Jul/Aug 2018	MW-26-2	NA	NA	3.0 U	1.5 J
Analyte concentration exceeds the standard for:						
CA MCL			10.0	15.0*	50.0	10.0**
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					
**	On July 1, 2014 the State Water Resources Control board (SWRCB) adopted an MCL for Cr(VI) of 10.0 µg/L					
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 01					
LA CANADA IRRIGATION DIST. WELL 06					
	6/5/2017	NA	NA	0.5	1.1
	3/26/2018	4.0 U	0.5 U	0.5 U	1.0
LAS FLORES WATER CO. WELL 02					
	4/17/2017	5.1	NA	0.9	NA
	4/24/2017	5.1	NA	1.3	NA
	5/8/2017	4.7	NA	0.6	NA
	5/15/2017	4.9	NA	0.6	NA
	5/22/2017	4.9	NA	1.1	NA
	5/30/2017	4.4	NA	1.0	NA
	6/5/2017	4.7	NA	1.2	NA
	6/12/2017	5.4	NA	1.1	NA
	6/19/2017	5.0	NA	1.0	NA
	6/26/2017	4.5	NA	1.3	NA
	7/3/2017	5.2	NA	1.3	NA
	7/10/2017	4.7	NA	1.2	NA
	7/17/2017	4.6	NA	1.2	NA
	7/24/2017	4.3	NA	1.3	NA
	8/7/2017	6.0	NA	1.8	NA
	8/14/2017	4.1	NA	1.7	NA
	8/21/2017	5.2	NA	0.9	NA
	8/28/2017	5.5	NA	1.1	NA
	9/5/2017	4.8	NA	1.4	NA
	9/11/2017	5.1	NA	0.8	NA
	9/18/2017	5.2	NA	1.2	NA
	9/25/2017	4.8	NA	1.3	NA
	10/2/2017	5.1	NA	1.3	NA
	10/9/2017	4.9	NA	1.3	NA
	10/16/2017	5.3	NA	1.1	NA
	10/23/2017	5.0	NA	1.6	NA
	10/30/2017	5.6	NA	1.2	NA
	2/5/2018	4.0	NA	1.2	NA
	2/12/2018	4.0	NA	1.2	NA
	2/20/2018	4.0 U	NA	1.1	NA
	2/26/2018	4.4	NA	1.0	NA
	3/5/2018	4.5	NA	0.8	NA
	3/12/2018	4.3	NA	1.3	NA
	3/19/2018	4.0 U	NA	1.5	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	3/26/2018	4.0 U	NA	1.1	NA
	4/2/2018	4.0 U	NA	1.0	NA
	4/9/2018	4.0	NA	1.4	NA
	4/16/2018	4.0 U	NA	1.3	NA
	4/23/2018	4.0 U	NA	1.2	NA
	4/30/2018	4.0 U	NA	0.5 U	NA
	5/7/2018	4.0 U	NA	0.8	NA
	5/14/2018	4.0 U	NA	1.1	NA
	5/21/2018	4.7	NA	1.6	NA
	5/29/2018	4.0 U	NA	1.0	NA
	6/4/2018	4.2	NA	0.8	NA
	6/11/2018	4.1	NA	1.6	NA
	6/18/2018	4.0 U	NA	1.2	NA
	6/25/2018	4.0 U	NA	0.6	NA
	7/3/2018	4.7	NA	0.8	NA
	7/9/2018	5.5	NA	2.1	NA
	7/16/2018	4.3	NA	1.2	NA
	7/23/2018	5.3	NA	1.0	NA
	7/30/2018	4.5	NA	1.1	NA
LINCOLN AVENUE WATER CO. WELL 03					
	4/4/2017	4.0 U	0.5 U	0.5 U	1.1
	4/11/2017	4.0 U	NA	NA	NA
	4/18/2017	4.0 U	NA	NA	NA
	4/25/2017	4.0 U	NA	NA	NA
	5/2/2017	4.0 U	0.5 U	0.5 U	1.0
	5/9/2017	4.0 U	NA	NA	NA
	5/16/2017	4.0 U	NA	NA	NA
	5/23/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/6/2017	4.0 U	0.5 U	0.5 U	1.0
	6/13/2017	4.0 U	NA	NA	NA
	6/20/2017	4.0 U	NA	NA	NA
	6/27/2017	4.0 U	NA	NA	NA
	7/3/2017	4.0 U	0.5 U	0.5 U	1.0
	7/11/2017	4.0 U	NA	NA	NA
	8/8/2017	NA	0.5 U	0.5 U	0.5 U
	4/20/2018	4.0 U	NA	NA	NA
	4/24/2018	4.0 U	0.5 U	0.5 U	0.5 U
LINCOLN AVENUE WATER CO. WELL 05					
	7/11/2017	8.8	0.5	0.8	2.0
	7/18/2017	17.0	NA	NA	NA
	7/25/2017	18.0	NA	NA	NA
	8/8/2017	16.0	1.6	0.8	2.2
	2/27/2018	6.6	2.6	0.5 U	0.6
	3/16/2018	8.1	5.8	0.5 U	0.9
	4/20/2018	7.5	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	4/24/2018	8.7	2.1	0.6	1.1
	5/29/2018	5.7	3.2	0.5 U	0.5
LINCOLN AVENUE WATER CO. WELL #6					
	9/5/2017	17.0	2.1	0.8	1.9
	9/12/2017	18.0	1.9	0.8	1.8
	9/19/2017	17.0	NA	NA	NA
	9/26/2017	17.0	NA	NA	NA
	10/3/2017	18.0	1.9	0.6	1.5
	10/10/2017	18.0	NA	NA	NA
	10/17/2017	16.0	NA	NA	NA
	10/24/2017	17.0	NA	NA	NA
	2/6/2018	14.0	2.0	0.7	1.6
	2/13/2018	15.0	NA	NA	NA
	2/20/2018	14.0	NA	NA	NA
	2/27/2018	18.0	1.8	0.7	1.9
	3/6/2018	18.0	1.3	0.8	1.7
	3/13/2018	16.0	NA	NA	NA
	3/20/2018	17.0	NA	NA	NA
	3/29/2018	16.0	NA	NA	NA
	4/3/2018	15.0	1.9	0.7	1.5
	4/10/2018	16.0	NA	NA	NA
	4/17/2018	15.0	NA	NA	NA
	4/24/2018	11.0	NA	NA	NA
	5/1/2018	14.0	1.6	0.5 U	1.2
	5/8/2018	14.0	1.8	0.6	1.4
	5/15/2018	12.0	NA	NA	NA
	5/22/2018	14.0	NA	NA	NA
	5/29/2018	16.0	NA	NA	NA
	6/5/2018	15.0	2.1	0.8	1.7
	6/12/2018	14.0	NA	NA	NA
	6/19/2018	13.0	NA	NA	NA
	6/26/2018	14.0	NA	NA	NA
	7/3/2018	14.0	2.6	0.5	1.2
	7/10/2018	14.0	NA	NA	NA
	7/17/2018	14.0	NA	NA	NA
	7/24/2018	15.0	NA	NA	NA
	7/31/2018	14.0	NA	NA	NA
PASADENA-CITY, WATER DEPT. ARROYO					
	4/4/2017	11.4	0.6	0.5	2.0
	4/11/2017	9.7	0.6	0.6	2.0
	4/18/2017	10.3	0.7	0.5	1.9
	4/25/2017	10.6	0.8	0.6	2.1
	5/2/2017	10.5	0.7	0.6	2.2
	5/9/2017	10.3	0.7	0.6	2.1
	5/16/2017	10.4	0.7	0.6	2.1
	5/23/2017	10.5	0.9	0.6	2.3

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	5/30/2017	10.3	0.6	0.5 U	1.6
	6/6/2017	11.0	0.6	0.5	2.2
	6/13/2017	10.8	0.7	0.5	2.1
	6/20/2017	10.3	0.8	0.5	2.0
	6/27/2017	10.6	0.8	0.6	2.2
	7/5/2017	9.6	2.1	0.5	2.0
	7/11/2017	9.7	0.9	0.6	2.2
	7/18/2017	9.8	0.9	0.6	2.3
	7/25/2017	9.9	0.8	0.6	2.1
	8/8/2017	10.7	0.7	0.0	2.1
	8/15/2017	10.0	0.8	0.0	2.2
	8/22/2017	10.6	0.7	0.5	2.1
	8/29/2017	10.0	0.8	0.5	2.1
	9/5/2017	10.8	0.7	0.0	2.1
	9/12/2017	10.9	0.8	0.5	2.2
	9/26/2017	10.1	1.0	0.7	2.3
	10/3/2017	10.6	0.8	0.6	2.3
	10/10/2017	11.5	0.7	0.5 U	1.9
	10/17/2017	11.6	0.8	0.6	2.4
	10/24/2017	11.7	0.9	0.5	2.2
	2/6/2018	10.7	0.7	0.5 U	2.1
	2/13/2018	10.7	0.6	0.5	1.9
	2/20/2018	11.1	0.7	0.5	2.0
	2/27/2018	11.3	0.7	0.5 U	1.9
	3/6/2018	12.1	0.7	0.5	2.0
	3/13/2018	11.0	0.7	0.5 U	1.8
	3/20/2018	10.8	0.6	0.5	2.0
	3/27/2018	10.8	0.7	0.5 U	1.8
	4/3/2018	10.7	0.6	0.5 U	1.7
	4/9/2018	10.3	0.7	0.5 U	1.9
	6/19/2018	10.3	0.6	0.7	1.9
	6/26/2018	9.6	0.6	0.6	1.6
	7/3/2018	9.9	0.9	0.6	1.8
	7/10/2018	10.4	0.9	0.6	1.9
	7/17/2018	11.0	1.0	0.6	1.8
	7/24/2018	11.4	1.1	0.6	2.0
	7/31/2018	10.8	1.0	0.6	2.0
PASADENA-CITY, WATER DEPT. VENTURA					
	4/4/2017	4.0 U	0.5 U	1.3	3.2
	4/11/2017	4.0 U	0.5 U	1.3	3.0
	8/8/2017	4.1	0.5 U	1.2	3.2
	6/25/2018	4.7	0.5 U	1.4	3.4
	7/9/2018	4.2	0.5 U	1.4	3.3
	7/23/2018	4.3	0.5 U	1.5	3.5
PASADENA-CITY, WATER DEPT. WELL 52					
	4/2/2018	4.1	0.5 U	0.8	4.9

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	7/2/2018	4.1	0.5 U	0.8	4.5
	7/16/2018	4.2	0.5 U	0.9	4.5
	7/30/2018	4.0 U	0.5 U	1.0	4.8
PASADENA-CITY, WATER DEPT. WINDSOR					
RUBIO CANON LAND & WATER ASSOCIATION WELL 04					
	4/3/2017	4.0 U	NA	2.3	NA
	4/10/2017	4.0 U	NA	NA	NA
	4/17/2017	4.0 U	NA	NA	NA
	4/24/2017	4.0 U	NA	NA	NA
	5/8/2017	4.0 U	NA	NA	NA
	5/15/2017	4.0 U	NA	NA	NA
	5/22/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/5/2017	4.0 U	NA	NA	NA
	6/12/2017	4.0 U	NA	NA	NA
	6/19/2017	4.0 U	NA	NA	NA
	6/26/2017	4.0 U	NA	NA	NA
	7/5/2017	4.0 U	NA	1.5	NA
	7/10/2017	4.0 U	NA	NA	NA
	7/17/2017	4.0 U	NA	NA	NA
	7/24/2017	4.0 U	NA	NA	NA
	8/7/2017	4.0 U	NA	NA	NA
	8/14/2017	4.0 U	NA	NA	NA
	8/21/2017	4.0 U	NA	NA	NA
	8/28/2017	4.0 U	NA	NA	NA
	9/6/2017	4.0 U	NA	NA	NA
	9/11/2017	4.0 U	NA	NA	NA
	9/18/2017	4.0 U	NA	NA	NA
	9/25/2017	4.0 U	NA	NA	NA
	10/2/2017	4.0 U	NA	NA	NA
	10/10/2017	4.0 U	NA	2.1	NA
	10/17/2017	4.0 U	NA	NA	NA
	10/23/2017	4.0 U	NA	NA	NA
	2/5/2018	4.0 U	0.5 U	1.3	0.5 U
	2/12/2018	4.0 U	NA	NA	NA
	2/20/2018	4.0 U	NA	NA	NA
	2/26/2018	4.0 U	NA	NA	NA
	3/5/2018	4.0 U	NA	NA	NA
	3/12/2018	4.0 U	NA	NA	NA
	3/19/2018	4.0 U	NA	NA	NA
	3/26/2018	4.0 U	NA	NA	NA
	4/2/2018	4.0 U	NA	1.3	NA
	4/9/2018	4.0 U	NA	NA	NA
	4/16/2018	4.0 U	NA	NA	NA
	4/23/2018	4.0 U	NA	NA	NA
	4/30/2018	4.0 U	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	5/7/2018	4.0 U	NA	NA	NA
	5/14/2018	4.0 U	NA	NA	NA
	5/21/2018	4.0 U	NA	NA	NA
	5/29/2018	4.0 U	NA	NA	NA
	6/4/2018	4.0 U	NA	NA	NA
	6/11/2018	4.0 U	NA	NA	NA
	6/18/2018	4.0 U	NA	NA	NA
	6/25/2018	4.0 U	NA	NA	NA
	7/2/2018	4.0 U	NA	3.7	NA
	7/9/2018	4.0 U	NA	NA	NA
	7/16/2018	4.0 U	NA	NA	NA
	7/23/2018	4.0 U	NA	NA	NA
	7/30/2018	4.0 U	NA	NA	NA
RUBIO CANON LAND & WATER ASSOCIATION WELL 07					
	4/3/2017	4.0 U	NA	0.8	NA
	4/10/2017	4.0 U	NA	NA	NA
	4/17/2017	4.0 U	NA	NA	NA
	4/24/2017	4.0 U	NA	NA	NA
	5/8/2017	4.0 U	NA	NA	NA
	5/15/2017	4.0 U	NA	NA	NA
	5/22/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/5/2017	4.0 U	NA	NA	NA
	6/12/2017	4.0 U	NA	NA	NA
	6/19/2017	4.0 U	NA	NA	NA
	6/26/2017	4.0 U	NA	NA	NA
	7/5/2017	4.0 U	NA	0.5 U	NA
	7/10/2017	4.0 U	NA	NA	NA
	7/17/2017	4.0 U	NA	NA	NA
	7/24/2017	4.0 U	NA	NA	NA
	8/7/2017	4.0 U	NA	NA	NA
	8/14/2017	4.0 U	NA	NA	NA
	8/21/2017	4.0 U	NA	NA	NA
	8/28/2017	4.0 U	NA	NA	NA
	9/6/2017	4.0 U	NA	NA	NA
	9/11/2017	4.0 U	NA	NA	NA
	9/18/2017	4.0 U	NA	NA	NA
	9/25/2017	4.0 U	NA	NA	NA
	10/2/2017	4.0 U	NA	NA	NA
	10/10/2017	4.0 U	NA	0.6	NA
	10/17/2017	4.0 U	NA	NA	NA
	10/23/2017	4.0 U	NA	NA	NA
	2/5/2018	4.0 U	0.5 U	0.5	0.5 U
	2/12/2018	4.0 U	NA	NA	NA
	2/20/2018	4.0 U	NA	NA	NA
	2/26/2018	4.0 U	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	3/5/2018	4.0 U	NA	NA	NA
	3/12/2018	4.0 U	NA	NA	NA
	3/19/2018	4.0 U	NA	NA	NA
	3/26/2018	4.0 U	NA	NA	NA
	4/2/2018	4.0 U	NA	0.6	NA
	4/9/2018	4.0 U	NA	NA	NA
	4/16/2018	4.0 U	NA	NA	NA
	4/23/2018	4.0 U	NA	NA	NA
	4/30/2018	4.0 U	NA	NA	NA
	5/7/2018	4.0 U	NA	NA	NA
	5/14/2018	4.0 U	NA	NA	NA
	5/21/2018	4.0 U	NA	NA	NA
	5/29/2018	4.0 U	NA	NA	NA
	6/4/2018	4.0 U	NA	NA	NA
	6/11/2018	4.0 U	NA	NA	NA
	6/18/2018	4.0 U	NA	NA	NA
	6/25/2018	4.0 U	NA	NA	NA
	7/2/2018	4.0 U	NA	0.7	NA
	7/9/2018	4.0 U	NA	NA	NA
	7/16/2018	4.0 U	NA	NA	NA
	7/23/2018	4.0 U	NA	NA	NA
	7/30/2018	4.0 U	NA	NA	NA
VALLEY WATER CO. WELL 01					
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	0.8	0.6
	6/2/2017	NA	0.5 U	0.8	0.7
	7/11/2017	4.0 U	0.5 U	1.2	1.5
	8/2/2017	4.0 U	0.5 U	0.7	0.9
	9/6/2017	4.0 U	NA	NA	NA
	9/28/2017	NA	0.5 U	0.7	0.9
	10/3/2017	4.0 U	0.5 U	0.6	0.7
	3/12/2018	4.0 U	0.5 U	0.5 U	0.6
	5/2/2018	4.0 U	0.5 U	0.8	1.0
	6/5/2018	4.0 U	0.5 U	0.9	1.1
	7/3/2018	4.0 U	0.5 U	1.1	1.4
VALLEY WATER CO. WELL 02					
	9/6/2017	4.0 U	NA	NA	NA
	9/28/2017	NA	0.5 U	0.7	0.9
	10/3/2017	4.0 U	0.5 U	0.6	0.7
	3/12/2018	4.0 U	0.5 U	0.5 U	0.5 U
	5/2/2018	4.0 U	0.5 U	0.5 U	0.5 U
	6/5/2018	4.0 U	0.5 U	0.5	0.5 U
	7/3/2018	4.0 U	0.5 U	0.6	0.7
VALLEY WATER CO. WELL 03					
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	1.2	0.7

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	6/2/2017	NA	0.5 U	0.5	0.5 U
	7/13/2017	4.0 U	0.5 U	0.5 U	0.5 U
	8/2/2017	4.0 U	0.5 U	0.5 U	0.5 U
	8/8/2017	NA	0.5 U	0.5 U	0.5 U
	9/6/2017	4.0 U	NA	NA	NA
	5/2/2018	4.4	0.5 U	1.2	0.7
	6/5/2018	4.0 U	0.5 U	0.5	0.5 U
	7/3/2018	4.0 U	0.5 U	1.0	0.5 U
VALLEY WATER CO. WELL 04					
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	0.9	0.9
	6/2/2017	NA	0.5 U	0.9	0.7
	7/11/2017	4.0 U	0.5 U	1.0	0.8
	8/2/2017	4.0 U	0.5 U	1.3	1.2
	9/6/2017	4.0 U	NA	NA	NA
	5/2/2018	4.8	0.5 U	1.2	0.9
	6/5/2018	4.0 U	0.5 U	1.2	1.1
	7/3/2018	4.0 U	0.5 U	1.4	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				