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# Arkema Quarter 2, 2025, Groundwater Monitoring Report

Arkema Inc. Facility, Portland, Oregon

PREPARED FOR  
Legacy Site Services LLC

DATE  
2 September 2025

REFERENCE  
0773823



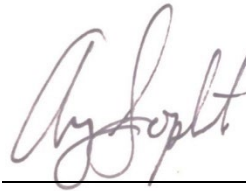
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# Arkema Quarter 2, 2025, Groundwater Monitoring Report

Arkema Inc. Facility, Portland, Oregon  
0773823



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Exp: 10/1/2025

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## ACRONYMS AND ABBREVIATIONS

| Acronyms    | Description                                                            |
|-------------|------------------------------------------------------------------------|
| µg/L        | micrograms per liter                                                   |
| Arkema      | Arkema Inc.                                                            |
| cis-1,2-DCE | cis-1,2-dichloroethene                                                 |
| COC         | contaminant of concern                                                 |
| ERM         | Environmental Resources Management, Inc.                               |
| GEE         | Groundwater Extraction Enhancement                                     |
| GMWP        | Groundwater Monitoring Work Plan                                       |
| GWBW        | groundwater barrier wall                                               |
| GWET        | groundwater extraction and treatment                                   |
| GW SCM      | groundwater source control measures                                    |
| LSS         | Legacy Site Services, LLC                                              |
| ODEQ        | Oregon Department of Environmental Quality                             |
| PCE         | tetrachloroethene                                                      |
| QA/QC       | quality assurance / quality control                                    |
| QAPP        | Quality Assurance Project Plan                                         |
| Report      | Quarter 2, 2025, Groundwater Monitoring Report                         |
| SEE         | System Effectiveness Evaluation                                        |
| Site        | Former Arkema Portland Plant at 6400 NW Front Avenue, Portland, Oregon |
| TCE         | trichloroethene                                                        |
| VOC         | volatile organic compound                                              |



## 1. INTRODUCTION

Environmental Resources Management, Inc. (ERM) has prepared this *Arkema Quarter 2, 2025, Groundwater Monitoring Report* (Report) for the Arkema Inc. (Arkema) Facility (the Site) on behalf of Legacy Site Services, LLC (LSS), agent for Arkema. The Site is located at 6400 NW Front Avenue in the Northwest Industrial Area of Portland, Oregon, and is bounded by Front Avenue on the north and west, the Willamette River on the east, and an asphalt roofing manufacturer on the south. The Site lies on the southwest bank of the lower Willamette River between river mile 6.9 and river mile 7.6, immediately upstream of the Burlington Northern Santa Fe Railroad Bridge and is adjacent to the Portland Harbor Superfund site.

The Site's operational and remedial history was documented in the *Revised Upland Feasibility Study Work Plan* (ERM 2017). This Report provides the field procedures, groundwater level data, and analytical results for the Quarter 2, 2025, groundwater monitoring at the former Arkema Portland Plant at 6400 NW Front Avenue, Portland, Oregon.

The objective of this groundwater monitoring program is to evaluate the performance of the groundwater source control measure (GW SCM). The GW SCM consists of the groundwater barrier wall (GWBW) and the groundwater extraction and treatment system (GWET). The objective of the GW SCM is to achieve hydraulic containment of the alluvial sequence within the Target Capture Zone at the Site to prevent the flow of contaminants of concern (COC) to the Willamette River. The GW SCM is described in further detail in the *Revised Final Performance Monitoring Plan—Groundwater Source Control Measure* (ERM 2015). In 2022, the GWET system was upgraded by installing 14 additional extraction wells referred to as the Groundwater Extraction Enhancement (GEE). The GEE is described in further detail in the *Final Design Report* (ERM 2022).

In their 31 May 2019 review of the *Draft GWET System Effectiveness Evaluation [SEE] Report* (ODEQ 2019), the ODEQ requested the development of an analytical monitoring program for groundwater COCs. Subsequent to that letter, LSS, ERM, and the ODEQ held a meeting on 2 July 2019, during which ERM and LSS agreed to commence groundwater monitoring. Starting in October 2019 through April 2021, groundwater monitoring was conducted in accordance with the ODEQ-approved *Arkema Quarterly Groundwater Monitoring Work Plan* (GMWP), dated October 2019 (ERM 2019). This groundwater monitoring scope consisted of a sitewide assessment of groundwater COCs.

Following the ODEQ review of the *2021 GWET System Effectiveness Evaluation Report* (ODEQ 2021; ERM 2021), ERM, on behalf of LSS, requested a reduced monitoring scope in a memorandum dated 9 September 2021. The ODEQ approved the reduced monitoring scope on 14 September 2021. The objective of the reduced monitoring scope of work is to evaluate the potential for the following COCs to migrate around or below the GBW:

- Volatile organic compounds (VOC)
- Perchlorate
- Chloride



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The reduced monitoring scope includes 29 well locations in the Shallow, Intermediate, and Deep hydrogeological zones. On 24 February 2023, following implementation of the GEE, LSS, ERM, and ODEQ held a meeting during which the parties agreed to continue with the reduced monitoring program, and incorporate piezometer PA-18d into the program. Collectively, the GMWP as amended by the conversations with ODEQ discussed above is referred to as the Approved Groundwater Monitoring Program in this report. ERM conducts groundwater monitoring events on a quarterly basis and assesses historical and current groundwater analytical trends in the area of the GWBW on an annual basis. The annual assessment is included in the Annual SEE Report.



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## 2. FIELD PROCEDURES

ERM collected groundwater elevation data from 128 well locations on 9 May 2025 and groundwater samples from 30 well locations between 12 May and 15 May 2025. The locations of all monitoring wells and piezometers are presented on Figure 1. A summary of groundwater level and sampling locations and analyses are displayed in Table 1.

ERM performed field sampling in accordance with the procedures outlined in the GMWP and addenda, with exception of deviations further described in Section 2.5. These procedures cover well purging, field parameter collection, analytical requirements, and quality assurance / quality control (QA/QC) protocols.

Groundwater monitoring fieldwork included collecting groundwater level measurements, water quality parameters, and groundwater samples for laboratory analysis.

### 2.1 GROUNDWATER LEVEL MEASUREMENTS

As shown in Table 1, ERM collected groundwater elevation data on 9 May 2025 from 128 well locations using a combination of transducer and manual measurements. Manual measurements were measured to the nearest 0.01 foot using a water level indicator in accordance with the GMWP. For locations with functioning transducers, transducer data were used for reporting in lieu of collecting manual measurements. For locations with transducers where a manual measurement was collected, when drift was 0.1 foot or greater, the transducer was recalibrated.

### 2.2 GROUNDWATER SAMPLE COLLECTION PROCEDURES

ERM collected groundwater samples from 30 well locations in accordance with the Approved Groundwater Monitoring Program. The monitoring well network includes eight monitoring wells and 22 piezometers (Table 1). Sample collection procedures pertaining to the 30 well locations under ERM's monitoring program are included below.

All wells and piezometers were sampled with a bladder or peristaltic pump using low-flow techniques and sample collection procedures as described in the GMWP. Field water quality measurements (i.e., temperature, pH, specific conductivity, dissolved oxygen, oxygen-reduction potential, turbidity) were collected with calibrated field water quality meters. ERM recorded field notes taken during sampling in field logs; field forms are provided as Appendix A.

After well-purging criteria were satisfied, ERM disconnected the in-line flow cell and collected groundwater samples in the appropriate containers for the analyses as shown in Table 1. For VOCs, low level analyses were performed if historical results were non-detected by standard methods.

After sampling, ERM removed the pump and associated tubing from the well, discarded disposable tubing, and decontaminated reusable equipment as described in the GMWP.



## 2.3 SAMPLE SHIPPING AND INVESTIGATION-DERIVED WASTE

After sample collection, ERM labeled samples with the required data and entered the data into the chain-of-custody record to facilitate proper tracking and control. Samples were delivered under chain-of-custody to the Eurofins Wilsonville Service Center and then shipped to their respective Eurofins laboratory in sealed containers, accompanied by the chain-of-custody record.

Investigation-derived waste generated during the groundwater monitoring included groundwater purged from monitoring wells, personal protective equipment, and disposable sampling equipment. Decontamination fluids and purge water were contained in 5-gallon buckets and then processed in the GWET system. Disposable sampling equipment and used personal protective equipment were disposed of as non-hazardous solid waste.

## 2.4 QUALITY ASSURANCE AND QUALITY CONTROL AND DATA VALIDATION

As described in the GMWP, the analyses were performed in accordance with the Quality Assurance Project Plan (QAPP) and the 2009 and 2011 QAPP addenda, as described in the GMWP.

ERM collected field QA/QC samples in accordance with the QAPP and associated addenda (listed below). QA/QC samples—including trip blanks, field duplicates, and rinsate samples—were collected, controlled, and shipped in the same manner as normal field samples.

- Trip blanks were included in each cooler that contained VOC samples.
- Field duplicate samples were collected for every 20 samples.
- Rinsate blank samples were collected for every 20 samples to verify efficacy of sampling equipment decontamination.

ERM completed data validation after receiving the laboratory analytical reports. Appendix B includes laboratory analytical reports and Appendix C includes data validation memos. QA/QC sample results were reviewed during data validation and additional details are included in the data validation memos (Appendix C). Based on the results of the data validation, qualifiers were assigned to the data, and select analytes were rejected. The following VOC results were rejected due to holding time exceedances:

- Chloromethane in sample PA-31-051425
- Acetone in duplicate sample Dup-02-051425
- All results for all VOCs except acetone in rinsate blank RB-02-051425
- All results for all VOCs in trip blank TB-051425A.

It was determined that, excluding rejected data, the qualified data are acceptable for decision making and meet the overall objectives of the monitoring program.

## 2.5 DEVIATIONS FROM GROUNDWATER MONITORING WORK PLAN

Deviations outside of the Approved Groundwater Monitoring Program include the following:



- Select wells sampled during Quarter 2, 2025 had unstable field parameters and drawdown over 1 foot. Additional details are provided below in Section 3.2.1.

## 2.6 MONITORING WELL REDEVELOPMENT

In March 2025, redevelopment was performed at five well locations (PA-19d, PA-20d, PA-21d, PA-23d, and PA-25d), which had consistent drawdown greater than 1 foot during groundwater monitoring in 2024. Redevelopment was performed at each location by using a surge block and pumping until turbidity was less than 50 nephelometric turbidity units. Following sampling during Quarter 2, 2025, well drawdown was reviewed and results of redevelopment are described below in Section 3.2.2.



### 3. GROUNDWATER MONITORING RESULTS

#### 3.1 GROUNDWATER ELEVATIONS

On 9 May 2025, ERM manually measured depth to groundwater to the nearest 0.01 foot in 56 wells at the Site using an electronic water level indicator. For the additional 72 wells with functioning transducers, ERM collected transducer groundwater elevation data on 9 May 2025. ERM averaged transducer data recorded in the respective Shallow Zone, Intermediate Zone, and Deep Zone aquifer wells during the time period that manual water level measurements were collected to estimate groundwater elevations. Table 2 presents groundwater elevation data for all 128 well locations, the time period used for averaging transducer groundwater elevation data, and transducers recalibrated based on this event. These data were used to develop potentiometric surface maps for the Shallow, Intermediate, and Deep hydrogeological zones. These maps are presented on Figures 2 through 4, respectively.

#### 3.2 GROUNDWATER SAMPLING RESULTS

ERM personnel completed groundwater sampling between 12 and 15 May 2025 at 30 monitoring well and piezometer locations, in accordance with the Approved Groundwater Monitoring Program. Results from the groundwater sampling and analyses of the well locations included in ERM's monitoring program are presented in further detail below.

##### 3.2.1 FIELD PARAMETER RESULTS

ERM measured and recorded field parameters during well purging. Table 3 presents the results of the field parameter measurements. The following well locations did not stabilize for select field parameters during the Quarter 2, 2025, groundwater monitoring event:

- Two monitoring locations (PA-19d, PA-21d) did not stabilize for turbidity.
- Two monitoring locations (PA-19d, PA-21d) did not stabilize for dissolved oxygen.
- Three monitoring locations (PA-03, PA-19d, PA-21d) had drawdown greater than 1 foot.

At each of the well locations with non-stabilized field parameters listed above, three well volumes were purged prior to sampling except at locations PA-03 and PA-21d. At the listed well locations where three well volumes were not collected, field parameters were close to stabilization and the quality of the data is not considered to be affected. Field staff will receive additional training regarding field parameter stabilization prior to the next groundwater monitoring event.

##### 3.2.2 MONITORING WELL REDEVELOPMENT RESULTS

As described above in Section 2.6, prior to the Quarter 2, 2025 groundwater monitoring event, redevelopment was performed at five well locations (PA-19d, PA-20d, PA-21d, PA-23d, and PA-25d) in March 2025.

Drawdown during the Quarter 2, 2025 groundwater monitoring event at well locations PA-20d, PA-23d, and PA-25d was less than 1 foot, indicating that redevelopment efforts at those locations



improved drawdown. Drawdown at well locations PA-19d and PA-21d was greater than 1 foot. No additional redevelopment on well locations PA-19d and PA-21d is planned. Well locations PA-19d and PA-21d are planned to be abandoned in Quarter 3, 2025, as part of the Interim Remedial Action Measure #1 In Situ Stabilization implementation.

### 3.2.3 ANALYTICAL RESULTS

Tables 4 and 5 present the analytical results for VOCs, and perchlorate and chloride, respectively, from the Quarter 2, 2025, groundwater monitoring event. Appendix B presents laboratory analytical reports. Appendix D includes previous groundwater monitoring data, beginning in October 2019, from well locations associated with the Approved Groundwater Monitoring Program. Appendix E includes historical groundwater data associated with the Site prior to implementation of the groundwater monitoring program in October 2019.

#### 3.2.3.1 VOCS

The results for chlorobenzene in the Shallow, Intermediate, and Deep Zones are presented on Figures 5 through 7, respectively. Chlorobenzene was detected in 6 out of 30 samples. The highest detected concentration of chlorobenzene was 41,000 micrograms per liter ( $\mu\text{g/L}$ ) at Deep Zone piezometer PA-21d.

The results for 1,2-dichlorobenzene in the Shallow, Intermediate, and Deep Zones are presented on Figures 8 through 10, respectively. 1,2-dichlorobenzene was detected in 1 out of 30 samples. The highest detected concentration of 1,2-dichlorobenzene was 7.4  $\mu\text{g/L}$  at Deep Zone piezometer PA-21d.

The results for tetrachloroethene (PCE), trichloroethene (TCE), and their de-chlorination daughter-products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride, in the Shallow, Intermediate, and Deep Zones, are presented on Figures 11 through 13, respectively:

- PCE was detected in 6 out of 30 samples. The highest detected concentration of PCE was 13  $\mu\text{g/L}$  at Deep Zone piezometer PA-19d.
- TCE was detected in 5 out of 30 samples. The highest detected concentration of TCE was 30  $\mu\text{g/L}$  at Deep Zone piezometer PA-19d.
- cis-1,2-DCE was detected in 4 out of 30 samples. The highest detected concentration of cis-1,2-DCE was 18  $\mu\text{g/L}$  at Deep Zone piezometer PA-19d.
- Vinyl chloride was detected in 0 out of 30 samples.

#### 3.2.3.2 PERCHLORATE

Perchlorate results for the Shallow, Intermediate, and Deep Zones are presented on Figures 14 through 16, respectively. Perchlorate was detected in 8 out of 30 samples. The highest detected concentration of perchlorate was 100,000  $\mu\text{g/L}$  at Deep Zone monitoring well MWA-31i(d).



### 3.2.3.3 CHLORIDE

Chloride results for the Shallow, Intermediate, and Deep Zones are presented on Figures 17 through 19, respectively. Chloride was detected in 30 out of 30 samples. The highest detected concentration of chloride was 31,000 milligrams per liter at Deep Zone piezometer PA-23d.



## 4. RECOMMENDATIONS

Following the Quarter 2, 2025, groundwater monitoring event, no changes are recommended to the GMWP at this time.

ERM will conduct the Quarter 3, 2025, groundwater monitoring event according to the following schedule:

- Water levels will be measured on 29 August 2025.
- Sampling will begin on 2 September 2025 and is expected to be completed over a 1-week period.
- Receipt of analytical results is anticipated to be completed over a period of 5 weeks from the completion of the sampling event (October 2025).

The Quarter 3, 2025, Groundwater Monitoring Report will be submitted to the ODEQ within 60 days after data validation (December 2025).



## 5. REFERENCES

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## TABLES

Table 1  
Groundwater Sampling Matrix  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte           |                           |                                     | Volatiles<br>Organic<br>Compounds | Volatiles<br>Organic<br>Compounds | Chloride | Perchlorate | Comments |
|-------------------|---------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------|-------------|----------|
| Analytical Method |                           |                                     | 8260C                             | 8260C_LL <sup>a</sup>             | 300      | 314         |          |
| Location ID       | Aquifer<br>Classification | Groundwater<br>Level<br>Measurement |                                   |                                   |          |             |          |
| MWA-02            | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| MWA-15r           | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-18            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-19            | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| MWA-20            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-22            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-24            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-29            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-33            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-40            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-41            | Shallow                   | X                                   | --                                | X                                 | X        | X           |          |
| MWA-42            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-43            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-46            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-47            | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| MWA-61            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-63            | Shallow                   | X                                   | X                                 | --                                | X        | X           |          |
| MWA-69            | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| MWA-71            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-72            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-73            | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| MWA-82            | Shallow                   | X                                   | --                                | X                                 | X        | X           |          |
| PA-03             | Shallow                   | X*                                  | --                                | X                                 | X        | X           |          |
| PA-04             | Shallow                   | X*                                  | --                                | X                                 | X        | X           |          |
| PA-05             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| PA-06             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| PA-07             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| PA-08             | Shallow                   | X*                                  | --                                | X                                 | X        | X           |          |
| PA-09             | Shallow                   | X*                                  | --                                | X                                 | X        | X           |          |
| PA-28             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| PA-31             | Shallow                   | X                                   | --                                | X                                 | X        | X           |          |
| PA-33             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-35             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-36             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-38             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-41             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-42             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| PA-43             | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| RP-02-31          | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| RP-10-30          | Shallow                   | X                                   | --                                | --                                | --       | --          |          |
| RW-05             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |
| RW-07             | Shallow                   | X*                                  | --                                | --                                | --       | --          |          |

Table 1  
Groundwater Sampling Matrix  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte               |                        |                               | Volatile Organic Compounds | Volatile Organic Compounds | Chloride | Perchlorate | Comments |
|-----------------------|------------------------|-------------------------------|----------------------------|----------------------------|----------|-------------|----------|
| Analytical Method     |                        |                               | 8260C                      | 8260C_LL <sup>a</sup>      | 300      | 314         |          |
| Location ID           | Aquifer Classification | Groundwater Level Measurement |                            |                            |          |             |          |
| RW-08                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-10                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-12                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-14                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-15                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-17                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-18                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-20                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-22                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-23                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| RW-25                 | Shallow                | X*                            | --                         | --                         | --       | --          |          |
| EW-1                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-2                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-3                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-4                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-5                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-6                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-7                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-8                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-9                  | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-10                 | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-11                 | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-12                 | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-13                 | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| EW-14                 | Shallow/Intermediate   | X*                            | --                         | --                         | --       | --          |          |
| MWA-83                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-84                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-85                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-86                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-87                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-88                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-89                | Shallow/Intermediate   | X                             | --                         | --                         | --       | --          |          |
| MWA-07(i)             | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-08i               | Intermediate           | X*                            | --                         | --                         | --       | --          |          |
| MWA-16i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-34iR <sup>b</sup> | Intermediate           | X*                            | --                         | --                         | --       | --          |          |
| MWA-49i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-53i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-54i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-66i               | Intermediate           | X*                            | --                         | --                         | --       | --          |          |
| MWA-70i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-74i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-75i               | Intermediate           | X                             | --                         | --                         | --       | --          |          |
| MWA-81i               | Intermediate           | X                             | --                         | X                          | X        | X           |          |

Table 1  
Groundwater Sampling Matrix  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte           |                           |                                     | Volatiles<br>Organic<br>Compounds | Volatiles<br>Organic<br>Compounds | Chloride | Perchlorate | Comments |
|-------------------|---------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------|-------------|----------|
| Analytical Method |                           |                                     | 8260C                             | 8260C_LL <sup>a</sup>             | 300      | 314         |          |
| Location ID       | Aquifer<br>Classification | Groundwater<br>Level<br>Measurement |                                   |                                   |          |             |          |
| PA-10i            | Intermediate              | X*                                  | --                                | X                                 | X        | X           |          |
| PA-11i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| PA-12i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| PA-13i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| PA-14i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| PA-15i            | Intermediate              | X*                                  | --                                | X                                 | X        | X           |          |
| PA-16i            | Intermediate              | X*                                  | --                                | X                                 | X        | X           |          |
| PA-17iR           | Intermediate              | X*                                  | --                                | X                                 | X        | X           |          |
| PA-29i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| PA-32i            | Intermediate              | X                                   | --                                | X                                 | X        | X           |          |
| PA-34i            | Intermediate              | X                                   | --                                | --                                | --       | --          |          |
| PA-37i            | Intermediate              | X                                   | --                                | --                                | --       | --          |          |
| PA-39i            | Intermediate              | X                                   | --                                | --                                | --       | --          |          |
| PA-40i            | Intermediate              | X                                   | --                                | --                                | --       | --          |          |
| PA-44i            | Intermediate              | X                                   | --                                | X                                 | X        | X           |          |
| RW-06i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-09i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-11i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-13i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-16i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-19i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-21i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-24i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| RW-26i            | Intermediate              | X*                                  | --                                | --                                | --       | --          |          |
| MWA-11i(d)        | Deep                      | X                                   | --                                | X                                 | X        | X           |          |
| MWA-12i(d)        | Deep                      | X                                   | --                                | --                                | --       | --          |          |
| MWA-31i(d)        | Deep                      | X                                   | X                                 | --                                | X        | X           |          |
| MWA-56d           | Deep                      | X                                   | X                                 | --                                | X        | X           |          |
| MWA-58d           | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-18d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-19d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-20d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-21d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-22d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-23d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-24d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-25d            | Deep                      | X*                                  | --                                | X                                 | X        | X           |          |
| PA-26d            | Deep                      | X*                                  | --                                | X                                 | X        | X           |          |
| PA-27d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| PA-30d            | Deep                      | X*                                  | X                                 | --                                | X        | X           |          |
| MWA-76g           | Gravel                    | X                                   | --                                | --                                | --       | --          |          |
| MWA-77g           | Gravel                    | X                                   | --                                | --                                | --       | --          |          |

Notes:

<sup>a</sup> low level test

<sup>b</sup> MWA-34i was abandoned on 30 May 2024 and reinstalled as MWA-34iR on 29 May 2024.

\* = indicates locations where groundwater level was measured with transducer.

NTU = nephelometric turbidity unit

Table 2  
Groundwater Elevation Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Well ID  | Date     | Time       | Aquifer Unit         | Top of Casing<br>Elevation (ft<br>NAVD88) | Depth to Water<br>(ft) | Groundwater<br>Elevation (ft<br>NAVD88) | Transducer<br>Recalibrated<br>following<br>Manual<br>Measurement <sup>a</sup> |
|----------|----------|------------|----------------------|-------------------------------------------|------------------------|-----------------------------------------|-------------------------------------------------------------------------------|
| MWA-02*  | 5/9/2025 | *          | Shallow              | 36.20                                     | --                     | 10.43                                   |                                                                               |
| MWA-15r  | 5/9/2025 | 7:58:00 AM | Shallow              | 36.06                                     | 23.96                  | 12.10                                   |                                                                               |
| MWA-18   | 5/9/2025 | 8:30:00 AM | Shallow              | 39.43                                     | 28.49                  | 10.94                                   |                                                                               |
| MWA-19*  | 5/9/2025 | *          | Shallow              | 38.26                                     | --                     | 10.94                                   | X                                                                             |
| MWA-20   | 5/9/2025 | 8:18:00 AM | Shallow              | 40.95                                     | 26.38                  | 14.57                                   |                                                                               |
| MWA-22   | 5/9/2025 | 7:55:00 AM | Shallow              | 36.59                                     | 20.70                  | 15.89                                   |                                                                               |
| MWA-24   | 5/9/2025 | 9:20:00 AM | Shallow              | 37.58                                     | 21.41                  | 16.17                                   |                                                                               |
| MWA-29   | 5/9/2025 | 8:40:00 AM | Shallow              | 44.42                                     | 33.30                  | 11.12                                   |                                                                               |
| MWA-33   | 5/9/2025 | 9:13:00 AM | Shallow              | 37.26                                     | 16.57                  | 20.69                                   |                                                                               |
| MWA-40   | 5/9/2025 | 9:18:00 AM | Shallow              | 36.96                                     | 16.62                  | 20.34                                   |                                                                               |
| MWA-41   | 5/9/2025 | 9:08:00 AM | Shallow              | 45.14                                     | 31.85                  | 13.29                                   |                                                                               |
| MWA-42   | 5/9/2025 | 8:15:00 AM | Shallow              | 37.24                                     | 23.77                  | 13.47                                   |                                                                               |
| MWA-43   | 5/9/2025 | 8:42:00 AM | Shallow              | 44.53                                     | 33.00                  | 11.53                                   |                                                                               |
| MWA-46   | 5/9/2025 | 8:28:00 AM | Shallow              | 36.67                                     | 25.95                  | 10.72                                   |                                                                               |
| MWA-47*  | 5/9/2025 | *          | Shallow              | 39.02                                     | --                     | 10.54                                   |                                                                               |
| MWA-61   | 5/9/2025 | 7:49:00 AM | Shallow              | 36.21                                     | 25.69                  | 10.52                                   |                                                                               |
| MWA-63   | 5/9/2025 | 7:32:00 AM | Shallow              | 36.29                                     | 23.01                  | 13.28                                   |                                                                               |
| MWA-69*  | 5/9/2025 | *          | Shallow              | 33.73                                     | --                     | 11.16                                   |                                                                               |
| MWA-71   | 5/9/2025 | 7:26:00 AM | Shallow              | 34.82                                     | 3.09                   | 31.73                                   |                                                                               |
| MWA-72   | 5/9/2025 | 9:28:00 AM | Shallow              | 34.16                                     | 2.57                   | 31.59                                   |                                                                               |
| MWA-73   | 5/9/2025 | 9:23:00 AM | Shallow              | 36.01                                     | 4.79                   | 31.22                                   |                                                                               |
| MWA-82   | 5/9/2025 | 9:10:00 AM | Shallow              | 37.74                                     | 22.45                  | 15.29                                   |                                                                               |
| PA-03*   | 5/9/2025 | *          | Shallow              | 37.10                                     | --                     | 26.70                                   |                                                                               |
| PA-04*   | 5/9/2025 | *          | Shallow              | 36.67                                     | --                     | 27.29                                   |                                                                               |
| PA-05*   | 5/9/2025 | *          | Shallow              | 37.22                                     | --                     | 8.86                                    |                                                                               |
| PA-06*   | 5/9/2025 | *          | Shallow              | 38.03                                     | --                     | 12.96                                   |                                                                               |
| PA-07*   | 5/9/2025 | *          | Shallow              | 39.30                                     | --                     | 14.92                                   | X                                                                             |
| PA-08*   | 5/9/2025 | *          | Shallow              | 40.47                                     | --                     | 13.60                                   |                                                                               |
| PA-09*   | 5/9/2025 | *          | Shallow              | 40.24                                     | --                     | 12.54                                   |                                                                               |
| PA-28*   | 5/9/2025 | *          | Shallow              | 38.58                                     | --                     | 15.10                                   | X                                                                             |
| PA-31    | 5/9/2025 | 7:35:00 AM | Shallow              | 36.25                                     | 8.95                   | 27.30                                   |                                                                               |
| PA-33    | 5/9/2025 | 7:37:00 AM | Shallow              | 36.29                                     | 9.63                   | 26.66                                   |                                                                               |
| PA-35    | 5/9/2025 | 7:39:00 AM | Shallow              | 35.91                                     | 25.97                  | 9.94                                    |                                                                               |
| PA-36    | 5/9/2025 | 7:45:00 AM | Shallow              | 36.90                                     | 27.80                  | 9.10                                    |                                                                               |
| PA-38    | 5/9/2025 | 8:49:00 AM | Shallow              | 42.93                                     | 27.99                  | 14.94                                   |                                                                               |
| PA-41    | 5/9/2025 | 8:44:00 AM | Shallow              | 39.69                                     | 26.25                  | 13.44                                   |                                                                               |
| PA-42    | 5/9/2025 | 8:50:00 AM | Shallow              | 40.60                                     | 27.01                  | 13.59                                   |                                                                               |
| PA-43    | 5/9/2025 | 9:04:00 AM | Shallow              | 40.41                                     | 26.30                  | 14.11                                   |                                                                               |
| RP-02-31 | 5/9/2025 | 7:17:00 AM | Shallow              | 42.49                                     | 29.02                  | 13.47                                   |                                                                               |
| RP-10-30 | 5/9/2025 | 7:22:00 AM | Shallow              | 37.47                                     | 6.78                   | 30.69                                   |                                                                               |
| RW-05*   | 5/9/2025 | *          | Shallow              | 34.80                                     | --                     | 23.97                                   |                                                                               |
| RW-07*   | 5/9/2025 | *          | Shallow              | 33.98                                     | --                     | 9.50                                    |                                                                               |
| RW-08*   | 5/9/2025 | *          | Shallow              | 34.21                                     | --                     | 10.10                                   |                                                                               |
| RW-10*   | 5/9/2025 | *          | Shallow              | 34.33                                     | --                     | 12.40                                   |                                                                               |
| RW-12*   | 5/9/2025 | *          | Shallow              | 35.58                                     | --                     | 13.63                                   |                                                                               |
| RW-14*   | 5/9/2025 | *          | Shallow              | 36.08                                     | --                     | 14.59                                   |                                                                               |
| RW-15*   | 5/9/2025 | *          | Shallow              | 35.81                                     | --                     | 14.67                                   |                                                                               |
| RW-17*   | 5/9/2025 | *          | Shallow              | 36.55                                     | --                     | 15.05                                   |                                                                               |
| RW-18*   | 5/9/2025 | *          | Shallow              | 36.51                                     | --                     | 14.73                                   |                                                                               |
| RW-20*   | 5/9/2025 | *          | Shallow              | 37.07                                     | --                     | 14.74                                   |                                                                               |
| RW-22*   | 5/9/2025 | *          | Shallow              | 38.02                                     | --                     | 9.05                                    |                                                                               |
| RW-23*   | 5/9/2025 | *          | Shallow              | 33.63                                     | --                     | 6.63                                    |                                                                               |
| RW-25*   | 5/9/2025 | *          | Shallow              | 38.06                                     | --                     | 8.18                                    |                                                                               |
| EW-1*    | 5/9/2025 | *          | Shallow/Intermediate | 33.84                                     | --                     | 1.09                                    |                                                                               |
| EW-2*    | 5/9/2025 | *          | Shallow/Intermediate | 34.20                                     | --                     | 1.80                                    |                                                                               |
| EW-3*    | 5/9/2025 | *          | Shallow/Intermediate | 34.43                                     | --                     | -3.61                                   |                                                                               |
| EW-4*    | 5/9/2025 | *          | Shallow/Intermediate | 34.61                                     | --                     | -4.74                                   |                                                                               |
| EW-5*    | 5/9/2025 | *          | Shallow/Intermediate | 35.03                                     | --                     | -6.19                                   |                                                                               |
| EW-6*    | 5/9/2025 | *          | Shallow/Intermediate | 35.43                                     | --                     | -5.92                                   |                                                                               |
| EW-7*    | 5/9/2025 | *          | Shallow/Intermediate | 35.24                                     | --                     | -0.01                                   |                                                                               |
| EW-8*    | 5/9/2025 | *          | Shallow/Intermediate | 35.07                                     | --                     | 2.00                                    |                                                                               |
| EW-9*    | 5/9/2025 | *          | Shallow/Intermediate | 36.77                                     | --                     | -17.44                                  |                                                                               |
| EW-10*   | 5/9/2025 | *          | Shallow/Intermediate | 36.35                                     | --                     | -3.00                                   |                                                                               |
| EW-11*   | 5/9/2025 | *          | Shallow/Intermediate | 37.38                                     | --                     | -2.22                                   |                                                                               |
| EW-12*   | 5/9/2025 | *          | Shallow/Intermediate | 38.24                                     | --                     | -7.32                                   |                                                                               |
| EW-13*   | 5/9/2025 | *          | Shallow/Intermediate | 39.79                                     | --                     | -5.34                                   |                                                                               |
| EW-14*   | 5/9/2025 | *          | Shallow/Intermediate | 40.03                                     | --                     | -4.45                                   |                                                                               |
| MWA-83   | 5/9/2025 | 7:42:00 AM | Shallow/Intermediate | 35.82                                     | 27.76                  | 8.06                                    |                                                                               |
| MWA-84   | 5/9/2025 | 7:51:00 AM | Shallow/Intermediate | 36.31                                     | 32.00                  | 4.31                                    |                                                                               |
| MWA-85   | 5/9/2025 | 8:02:00 AM | Shallow/Intermediate | 36.86                                     | 34.65                  | 2.21                                    |                                                                               |
| MWA-86   | 5/9/2025 | 8:14:00 AM | Shallow/Intermediate | 37.15                                     | 25.66                  | 11.49                                   |                                                                               |
| MWA-87   | 5/9/2025 | 8:21:00 AM | Shallow/Intermediate | 37.68                                     | 37.20                  | 0.47                                    |                                                                               |
| MWA-88   | 5/9/2025 | 8:35:00 AM | Shallow/Intermediate | 39.36                                     | 39.26                  | 0.10                                    |                                                                               |
| MWA-89   | 5/9/2025 | 8:53:00 AM | Shallow/Intermediate | 41.65                                     | 39.52                  | 2.13                                    |                                                                               |

Table 2  
Groundwater Elevation Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Well ID    | Date     | Time       | Aquifer Unit | Top of Casing<br>Elevation (ft<br>NAVD88) | Depth to Water<br>(ft) | Groundwater<br>Elevation (ft<br>NAVD88) | Transducer<br>Recalibrated<br>following<br>Manual<br>Measurement <sup>a</sup> |
|------------|----------|------------|--------------|-------------------------------------------|------------------------|-----------------------------------------|-------------------------------------------------------------------------------|
| MWA-07(i)  | 5/9/2025 | 9:24:00 AM | Intermediate | 36.24                                     | 5.37                   | 30.87                                   |                                                                               |
| MWA-08i*   | 5/9/2025 | *          | Intermediate | 36.25                                     | --                     | 10.61                                   |                                                                               |
| MWA-16i    | 5/9/2025 | 8:06:00 AM | Intermediate | 36.58                                     | 25.85                  | 10.73                                   |                                                                               |
| MWA-34iR   | 5/9/2025 | *          | Intermediate | 37.36                                     | --                     | 10.47                                   |                                                                               |
| MWA-49i    | 5/9/2025 | 8:29:00 AM | Intermediate | 36.68                                     | 25.80                  | 10.88                                   |                                                                               |
| MWA-53i    | 5/9/2025 | 8:39:00 AM | Intermediate | 44.63                                     | 33.73                  | 10.90                                   |                                                                               |
| MWA-54i    | 5/9/2025 | 8:15:00 AM | Intermediate | 37.35                                     | 25.20                  | 12.15                                   |                                                                               |
| MWA-66i*   | 5/9/2025 | *          | Intermediate | 33.35                                     | --                     | 10.46                                   |                                                                               |
| MWA-70i    | 5/9/2025 | 9:14:00 AM | Intermediate | 37.62                                     | 19.55                  | 18.07                                   |                                                                               |
| MWA-74i    | 5/9/2025 | 7:25:00 AM | Intermediate | 34.72                                     | 9.10                   | 25.62                                   |                                                                               |
| MWA-75i    | 5/9/2025 | 9:29:00 AM | Intermediate | 34.09                                     | 2.04                   | 32.05                                   |                                                                               |
| MWA-81i    | 5/9/2025 | 9:07:00 AM | Intermediate | 44.62                                     | 32.79                  | 11.83                                   |                                                                               |
| PA-10i*    | 5/9/2025 | *          | Intermediate | 36.67                                     | --                     | 13.87                                   |                                                                               |
| PA-11i*    | 5/9/2025 | *          | Intermediate | 37.63                                     | --                     | 11.06                                   |                                                                               |
| PA-12i*    | 5/9/2025 | *          | Intermediate | 38.03                                     | --                     | 12.82                                   |                                                                               |
| PA-13i*    | 5/9/2025 | *          | Intermediate | 38.48                                     | --                     | 11.97                                   | X                                                                             |
| PA-14i*    | 5/9/2025 | *          | Intermediate | 39.30                                     | --                     | 11.61                                   |                                                                               |
| PA-15i*    | 5/9/2025 | *          | Intermediate | 40.62                                     | --                     | 11.87                                   |                                                                               |
| PA-16i*    | 5/9/2025 | *          | Intermediate | 40.30                                     | --                     | 11.50                                   |                                                                               |
| PA-17iR*   | 5/9/2025 | *          | Intermediate | 37.59                                     | --                     | 12.83                                   |                                                                               |
| PA-29i*    | 5/9/2025 | *          | Intermediate | 39.18                                     | --                     | 10.62                                   |                                                                               |
| PA-32i     | 5/9/2025 | 7:36:00 AM | Intermediate | 36.28                                     | 22.85                  | 13.43                                   |                                                                               |
| PA-34i     | 5/9/2025 | 7:38:00 AM | Intermediate | 36.02                                     | 22.70                  | 13.32                                   |                                                                               |
| PA-37i     | 5/9/2025 | 7:47:00 AM | Intermediate | 36.54                                     | 27.28                  | 9.26                                    |                                                                               |
| PA-39i     | 5/9/2025 | 8:46:00 AM | Intermediate | 40.11                                     | 28.35                  | 11.76                                   |                                                                               |
| PA-40i     | 5/9/2025 | 8:47:00 AM | Intermediate | 41.47                                     | 29.67                  | 11.80                                   |                                                                               |
| PA-44i     | 5/9/2025 | 9:03:00 AM | Intermediate | 40.36                                     | 28.55                  | 11.81                                   |                                                                               |
| RW-06i*    | 5/9/2025 | *          | Intermediate | 35.59                                     | --                     | 13.37                                   |                                                                               |
| RW-09i*    | 5/9/2025 | *          | Intermediate | 33.73                                     | --                     | 11.04                                   |                                                                               |
| RW-11i*    | 5/9/2025 | *          | Intermediate | 34.77                                     | --                     | 11.33                                   |                                                                               |
| RW-13i*    | 5/9/2025 | *          | Intermediate | 36.09                                     | --                     | 13.83                                   |                                                                               |
| RW-16i*    | 5/9/2025 | *          | Intermediate | 35.77                                     | --                     | 14.17                                   |                                                                               |
| RW-19i*    | 5/9/2025 | *          | Intermediate | 36.56                                     | --                     | 12.31                                   |                                                                               |
| RW-21i*    | 5/9/2025 | *          | Intermediate | 37.38                                     | --                     | 11.82                                   |                                                                               |
| RW-24i*    | 5/9/2025 | *          | Intermediate | 34.03                                     | --                     | 9.77                                    |                                                                               |
| RW-26i*    | 5/9/2025 | *          | Intermediate | 38.10                                     | --                     | 11.85                                   |                                                                               |
| MWA-11i(d) | 5/9/2025 | 7:59:00 AM | Deep         | 36.49                                     | 24.88                  | 11.61                                   |                                                                               |
| MWA-12i(d) | 5/9/2025 | 9:25:00 AM | Deep         | 35.86                                     | 9.48                   | 26.38                                   |                                                                               |
| MWA-31i(d) | 5/9/2025 | 9:00:00 AM | Deep         | 38.36                                     | 28.28                  | 10.08                                   |                                                                               |
| MWA-56d    | 5/9/2025 | 8:27:00 AM | Deep         | 36.68                                     | 25.91                  | 10.77                                   |                                                                               |
| MWA-58d    | 5/9/2025 | *          | Deep         | 37.97                                     | --                     | 10.11                                   |                                                                               |
| PA-18d*    | 5/9/2025 | *          | Deep         | 36.55                                     | --                     | 11.36                                   |                                                                               |
| PA-19d*    | 5/9/2025 | *          | Deep         | 36.65                                     | --                     | 9.63                                    |                                                                               |
| PA-20d*    | 5/9/2025 | *          | Deep         | 37.91                                     | --                     | 11.16                                   |                                                                               |
| PA-21d*    | 5/9/2025 | *          | Deep         | 34.36                                     | --                     | 9.56                                    |                                                                               |
| PA-22d*    | 5/9/2025 | *          | Deep         | 38.75                                     | --                     | 9.92                                    |                                                                               |
| PA-23d*    | 5/9/2025 | *          | Deep         | 39.31                                     | --                     | 9.88                                    |                                                                               |
| PA-24d*    | 5/9/2025 | *          | Deep         | 39.06                                     | --                     | 11.01                                   |                                                                               |
| PA-25d*    | 5/9/2025 | *          | Deep         | 40.44                                     | --                     | 13.53                                   |                                                                               |
| PA-26d*    | 5/9/2025 | *          | Deep         | 40.33                                     | --                     | 12.42                                   |                                                                               |
| PA-27d*    | 5/9/2025 | *          | Deep         | 37.10                                     | --                     | 12.36                                   |                                                                               |
| PA-30d*    | 5/9/2025 | *          | Deep         | 37.34                                     | --                     | 10.73                                   |                                                                               |
| MWA-76g    | 5/9/2025 | 9:30:00 AM | Gravel       | 34.96                                     | 9.01                   | 25.95                                   |                                                                               |
| MWA-77g    | 5/9/2025 | 7:24:00 AM | Gravel       | 34.03                                     | 17.75                  | 16.28                                   |                                                                               |

Notes:

<sup>a</sup> For monitoring wells with transducers where manual measurements were collected, if drift was 0.1 foot or greater, the transducer was recalibrated.

\* = wells with transducers; transducer data were used to obtain groundwater elevation

\*\* = wells with malfunctioning or down transducers, water levels collected manually

ft = feet

NAVD 88 = North American Vertical Datum 1988

Manual measurement data collected in field with tablet.

Transducer data was averaged between 7:16 AM and 9:30 AM for the groundwater elevation value.

Table 3  
Field Parameters Measured in Groundwater  
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| Analyte Method Unit |             |                        |                   | pH               | Temperature         | Specific Conductivity | Oxidation-Reduction Potential | Dissolved Oxygen   | Turbidity         |
|---------------------|-------------|------------------------|-------------------|------------------|---------------------|-----------------------|-------------------------------|--------------------|-------------------|
|                     |             |                        |                   | Field Measure SU | Field Measure deg C | Field Measure uS/cm   | Field Measure mV              | Field Measure mg/L | Field Measure NTU |
| Location ID         | Sample Date | Aquifer Classification | Sample ID         |                  |                     |                       |                               |                    |                   |
| MWA-41              | 13-May-25   | Shallow                | MWA-41-051325     | 6.88             | 14.7                | 305.3                 | 66.9                          | 0.57               | 5.6               |
| MWA-63              | 14-May-25   | Shallow                | MWA-63-051425     | 7.19             | 15.1                | 563                   | 44.3                          | 9.23               | 19.31             |
| MWA-82              | 13-May-25   | Shallow                | MWA-82-051325     | 9.95             | 13.9                | 465.8                 | 6.4                           | 0.47               | 22.41             |
| PA-03               | 13-May-25   | Shallow                | PA-03-051325      | 10.65            | 15.5                | 688                   | -162.6                        | 1.04               | 70.1              |
| PA-04               | 13-May-25   | Shallow                | PA-04-051325      | 9.97             | 15.2                | 696                   | -145.1                        | 0.96               | 35.98             |
| PA-08               | 12-May-25   | Shallow                | PA-08-05122025    | 7.23             | 13.8                | 1517                  | 5.5                           | 0.98               | 42.3              |
| PA-09               | 12-May-25   | Shallow                | PA-09-051225      | 6.63             | 15.7                | 535                   | 32.8                          | 0.87               | 115.47            |
| PA-31               | 14-May-25   | Shallow                | PA-31-051425      | 9.51             | 14.8                | 635                   | -89.8                         | 1.13               | 29.98             |
| MWA-81i             | 13-May-25   | Intermediate           | MWA-81i-051325    | 7.01             | 14.7                | 431.3                 | -7.3                          | 0.79               | 1.68              |
| PA-10i              | 14-May-25   | Intermediate           | PA-10i-051425     | 7.47             | 13.5                | 839                   | -42.1                         | 1.13               | 4.08              |
| PA-15i              | 12-May-25   | Intermediate           | PA-15i-051225     | 7.29             | 15.1                | 623                   | -58.2                         | 0.6                | 93.84             |
| PA-16i              | 12-May-25   | Intermediate           | PA-16i-051225     | 6.96             | 15                  | 377.1                 | -63.6                         | 1.18               | 186.8             |
| PA-17iR             | 13-May-25   | Intermediate           | PA-17iR-051325    | 9.22             | 16.3                | 1026                  | -160.3                        | 1.13               | 5.98              |
| PA-32i              | 14-May-25   | Intermediate           | PA-32i-051425     | 7.53             | 17.4                | 1203                  | -68.7                         | 1.06               | 12.03             |
| PA-44i              | 13-May-25   | Intermediate           | PA-44i-051325     | 7.27             | 14.4                | 880                   | -25.5                         | 0.55               | 46.83             |
| MWA-11i(d)          | 14-May-25   | Deep                   | MWA-11i(d)-051425 | 6.82             | 16.4                | 3142                  | -73.4                         | 1.26               | 2.14              |
| MWA-31i(d)          | 13-May-25   | Deep                   | MWA-31i(d)-051325 | 6.56             | 15.8                | 57134                 | 128.2                         | 0.69               | 10.65             |
| MWA-56d             | 14-May-25   | Deep                   | MWA-56d-051425    | 6.63             | 15.2                | 37581                 | 84.7                          | 0.74               | 40.4              |
| MWA-58d             | 14-May-25   | Deep                   | MWA-58d-051425    | 6.65             | 14.9                | 48073                 | 51.5                          | 0.62               | 3.5               |
| PA-18d              | 14-May-25   | Deep                   | PA-18d-051425     | 8.83             | 15.2                | 1145                  | -89.7                         | 1                  | 125.9             |
| PA-19d              | 14-May-25   | Deep                   | PA-19d-051425     | 7.29             | 14.8                | 3159                  | -83.6                         | 0.32               | 7.05              |
| PA-20d              | 14-May-25   | Deep                   | PA-20d-051425     | 6.87             | 14.1                | 2149                  | -114.9                        | 0.78               | 23.25             |
| PA-21d              | 14-May-25   | Deep                   | PA-21d-051425     | 6.24             | 15                  | 3916                  | -40.6                         | 0.35               | 54.82             |
| PA-22d              | 13-May-25   | Deep                   | PA-22d-051325     | 7.15             | 16.1                | 15598                 | 110.5                         | 0.71               | 10.29             |
| PA-23d              | 13-May-25   | Deep                   | PA-23d-051325     | 6.87             | 13.8                | 69813                 | -42.6                         | 1.08               | 2.02              |
| PA-24d              | 12-May-25   | Deep                   | PA-24d-051225     | 6.72             | 13.9                | 69035                 | -96.1                         | 0.69               | 16.8              |
| PA-25d              | 12-May-25   | Deep                   | PA-25d-051225     | 7                | 14.9                | 670                   | -119.9                        | 0.84               | 7.34              |
| PA-26d              | 12-May-25   | Deep                   | PA-26d-051225     | 6.64             | 16.8                | 593                   | -42.9                         | 0.94               | 54.39             |
| PA-27d              | 13-May-25   | Deep                   | PA-27d-051325     | 7.15             | 16.4                | 2991                  | -67                           | 1.12               | 7.67              |
| PA-30d              | 15-May-25   | Deep                   | PA-30d-051525     | 8.32             | 14.6                | 2812                  | -168.5                        | 0.32               | 88.52             |

Notes:  
uS/cm = microSiemens per centimeter  
deg C = degrees Celsius  
mg/L = milligrams per liter  
mV = millivolts  
NTU = nephelometric turbidity units  
SU = standard units

Table 4  
Volatile Organic Compounds Results  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|------------------------|------------------------|------------------------|------------------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE                  | NE                     | NE                     | 0.076                  | NE                     |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                     |                        |                        |                        |                        |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50              | < 0.75                 | < 0.50                 | < 0.35                 | 1.3 j                  |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0               | < 1.5                  | < 1.0                  | < 0.70                 | 0.84 j                 |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.10 UJ           | < 0.15 UJ              | < 0.10 UJ              | < 0.070 UJ             | < 0.080 UJ             |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ           | < 0.75 UJ              | < 0.50 UJ              | < 0.35 UJ              | < 0.40 UJ              |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0               | < 1.5                  | < 1.0                  | < 0.70                 | < 0.80                 |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50              | < 0.75                 | < 0.50                 | < 0.35                 | < 0.40                 |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0               | < 1.5                  | < 1.0                  | < 0.70                 | < 0.80                 |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0               | < 1.5                  | < 1.0                  | < 0.70                 | < 0.80                 |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ           | < 0.75 UJ              | < 0.50 UJ              | < 0.35 UJ              | < 0.40 UJ              |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50              | < 0.75                 | < 0.50                 | < 0.35                 | < 0.40                 |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ           | < 0.15 UJ              | < 0.10 UJ              | < 0.070 UJ             | < 0.080 UJ             |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ            | < 4.0 UJ               | < 3.0 UJ               | < 3.0 UJ               | < 10 UJ                |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ            | < 8.0 UJ               | < 6.0 UJ               | < 6.0 UJ               | < 20 UJ                |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ           | < 0.40 UJ              | < 0.30 UJ              | < 0.30 UJ              | < 1.0 UJ               |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ            | < 4.0 UJ               | < 3.0 UJ               | < 3.0 UJ               | < 10 UJ                |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10              | < 0.15                 | < 0.10                 | < 0.070                | < 0.080                |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ            | < 2.0 UJ               | < 1.5 UJ               | < 1.5 UJ               | < 5.0 UJ               |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ            | < 2.0 UJ               | < 1.5 UJ               | < 1.5 UJ               | < 5.0 UJ               |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dibromo-3-chloropropane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane | 1,3,5-Trimethylbenzene |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-----------------------------|---------------------|--------------------|---------------------|------------------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE                          | 14                  | 3.7                | 1.5                 | NE                     |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                             |                     |                    |                     |                        |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                      | < 0.35              | < 0.35             | < 0.50              | 0.56 j                 |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                       | < 0.70              | < 0.70             | < 1.0               | < 0.80                 |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.10 UJ                   | < 0.070 UJ          | < 0.070 UJ         | < 0.10 UJ           | < 0.080 UJ             |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ                   | < 0.35 UJ           | < 0.35 UJ          | < 0.50 UJ           | < 0.40 UJ              |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                       | < 0.70              | < 0.70             | < 1.0               | < 0.80                 |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                      | < 0.35              | < 0.35             | < 0.50              | < 0.40                 |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                       | < 0.70              | < 0.70             | < 1.0               | < 0.80                 |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                       | < 0.70              | < 0.70             | < 1.0               | < 0.80                 |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ                   | < 0.35 UJ           | < 0.35 UJ          | < 0.50 UJ           | < 0.40 UJ              |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                      | < 0.35              | < 0.35             | < 0.50              | < 0.40                 |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ                   | < 0.070 UJ          | < 0.070 UJ         | < 0.10 UJ           | < 0.080 UJ             |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ                    | < 2.0 UJ            | < 3.0 UJ           | < 3.0 UJ            | < 3.0 UJ               |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ                    | 7.4 J-              | < 6.0 UJ           | < 6.0 UJ            | < 6.0 UJ               |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                   | < 0.20 UJ           | < 0.30 UJ          | < 0.30 UJ           | < 0.30 UJ              |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ                    | < 2.0 UJ            | < 3.0 UJ           | < 3.0 UJ            | < 3.0 UJ               |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | < 0.070            | < 0.10              | < 0.080                |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                      | < 0.070             | 0.38 j             | < 0.10              | < 0.080                |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ                    | < 1.0 UJ            | < 1.5 UJ           | < 1.5 UJ            | < 1.5 UJ               |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ                    | < 1.0 UJ            | < 1.5 UJ           | < 1.5 UJ            | < 1.5 UJ               |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Butanone (Methyl ethyl ketone) |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | 10                  | NE                  | 15                  | NE                  | 14000                            |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                     |                     |                     |                     |                                  |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.35              | < 0.40              | < 0.35              | < 0.50              | < 5.0                            |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.70              | < 0.80              | < 0.70              | < 1.0               | < 10                             |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.070 UJ          | < 0.080 UJ          | < 0.070 UJ          | < 0.10 UJ           | < 1.0 UJ                         |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.35 UJ           | < 0.40 UJ           | < 0.35 UJ           | < 0.50 UJ           | < 5.0 UJ                         |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.70              | < 0.80              | < 0.70              | < 1.0               | < 10                             |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.35              | < 0.40              | < 0.35              | < 0.50              | < 5.0                            |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.70              | < 0.80              | < 0.70              | < 1.0               | < 10                             |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.70              | < 0.80              | < 0.70              | < 1.0               | < 10                             |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.35 UJ           | < 0.40 UJ           | < 0.35 UJ           | < 0.50 UJ           | < 5.0 UJ                         |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.35              | < 0.40              | < 0.35              | < 0.50              | < 5.0                            |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.070 UJ          | < 0.080 UJ          | < 0.070 UJ          | < 0.10 UJ           | < 1.0 UJ                         |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 6.8 UJ            | < 3.0 UJ            | 3.8 J-              | < 3.0 UJ            | < 10 UJ                          |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 14 UJ             | < 6.0 UJ            | 20 J-               | < 6.0 UJ            | < 20 UJ                          |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.68 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 0.30 UJ           | < 1.0 UJ                         |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 6.8 UJ            | < 3.0 UJ            | < 3.0 UJ            | < 3.0 UJ            | < 10 UJ                          |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.070             | < 0.080             | < 0.070             | < 0.10              | < 1.0                            |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 3.4 UJ            | < 1.5 UJ            | < 1.5 UJ            | < 1.5 UJ            | < 5.0 UJ                         |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 3.4 UJ            | < 1.5 UJ            | < 1.5 UJ            | < 1.5 UJ            | < 5.0 UJ                         |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 4-Chlorotoluene | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone   | Benzene   |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-----------------|--------------------|----------------------|-----------|-----------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE              | NE                 | NE                   | 1500      | 1.4       |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                 |                    |                      |           |           |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | 5.8 J     | < 0.30 UJ |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.40             | < 5.0                | < 7.5     | 6.2       |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 0.80             | < 10                 | < 15      | < 1.0     |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.080 UJ      | < 0.080 UJ         | < 1.0 UJ             | < 1.5 UJ  | < 0.10 UJ |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ       | < 0.40 UJ          | < 5.0 UJ             | < 7.5 UJ  | < 0.50 UJ |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 0.80             | < 10                 | < 15      | < 1.0     |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.40             | < 5.0                | < 7.5     | < 0.50    |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 0.80             | < 10                 | < 15      | < 1.0     |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 0.80             | < 10                 | < 15      | < 1.0     |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ       | < 0.40 UJ          | < 5.0 UJ             | < 7.5 UJ  | < 0.50 UJ |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.40             | < 5.0                | < 7.5     | 3.0       |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.080 UJ      | < 0.080 UJ         | < 1.0 UJ             | < 1.5 UJ  | < 0.10 UJ |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | < 20 UJ   | < 0.30 UJ |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | < 0.70 UJ | < 0.30 UJ |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | 1.3 J     | 0.31 J-   |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | R         | 0.31 J-   |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | 1.6 J     | < 0.30 UJ |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ        | < 3.0 UJ           | < 5.0 UJ             | < 7.0 UJ  | 36 J-     |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | 1.1 J     | < 0.30 UJ |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ        | < 6.0 UJ           | < 10 UJ              | < 14 UJ   | < 6.0 UJ  |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | < 0.70 UJ | < 0.30 UJ |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ          | < 0.50 UJ            | < 20 UJ   | < 0.30 UJ |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ        | < 3.0 UJ           | < 5.0 UJ             | < 7.0 UJ  | < 3.0 UJ  |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.080            | < 1.0                | < 1.5     | < 0.10    |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ           | < 2.5 UJ             | < 3.5 UJ  | < 1.5 UJ  |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ           | < 2.5 UJ             | < 3.5 UJ  | 57 J-     |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | Bromobenzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|--------------|----------------------|-----------|--------------|------------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE           | 1.7                  | 14        | 150          | 0.92             |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |              |                      |           |              |                  |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40       | < 0.40               | < 1.5     | < 0.50       | < 0.50           |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80       | < 0.80               | < 3.0     | < 1.0        | < 1.0            |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.080 UJ   | < 0.080 UJ           | < 0.30 UJ | < 0.10 UJ    | < 0.10 UJ        |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ    | < 0.40 UJ            | < 1.5 UJ  | < 0.50 UJ    | < 0.50 UJ        |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80       | < 0.80               | < 3.0     | < 1.0        | < 1.0            |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40       | < 0.40               | < 1.5     | < 0.50       | < 0.50           |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80       | < 0.80               | < 3.0     | < 1.0        | < 1.0            |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80       | < 0.80               | < 3.0     | < 1.0        | < 1.0            |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ    | < 0.40 UJ            | < 1.5 UJ  | < 0.50 UJ    | < 0.50 UJ        |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40       | < 0.40               | < 1.5     | < 0.50       | < 0.50           |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.080 UJ   | < 0.080 UJ           | < 0.30 UJ | < 0.10 UJ    | < 0.10 UJ        |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | 0.48 J               | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | 1.3 J-               | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | 1.3 J-               | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ     | < 2.0 UJ             | < 10 UJ   | < 3.0 UJ     | < 3.0 UJ         |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ     | < 4.0 UJ             | < 20 UJ   | < 6.0 UJ     | < 6.0 UJ         |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ    | < 0.20 UJ            | < 1.0 UJ  | < 0.30 UJ    | < 0.30 UJ        |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ     | < 2.0 UJ             | < 10 UJ   | < 3.0 UJ     | < 3.0 UJ         |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080      | < 0.080              | < 0.30    | < 0.10       | < 0.10           |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ     | < 1.0 UJ             | < 5.0 UJ  | < 1.5 UJ     | < 1.5 UJ         |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ     | < 1.0 UJ             | < 5.0 UJ  | < 1.5 UJ     | < 1.5 UJ         |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | Carbon tetrachloride | Chlorobenzene | Chlorobromomethane | Chloroethane | Chloroform |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|----------------------|---------------|--------------------|--------------|------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | 0.16                 | 64            | NE                 | NE           | 28         |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                      |               |                    |              |            |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | < 0.090    |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | 40 J-      |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | 1.3        |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | < 0.090    |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50               | < 0.35        | < 0.40             | < 0.50       | < 0.45     |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                | < 0.70        | < 0.80             | < 1.0        | < 0.90     |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | 0.29 j     |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.10 UJ            | < 0.070 UJ    | < 0.080 UJ         | < 0.10 UJ    | 0.096 J-   |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | < 0.090    |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ            | 0.82 J-       | < 0.40 UJ          | < 0.50 UJ    | < 0.45 UJ  |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                | < 0.70        | < 0.80             | < 1.0        | < 0.90     |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50               | < 0.35        | < 0.40             | < 0.50       | < 0.45     |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                | < 0.70        | < 0.80             | < 1.0        | < 0.90     |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                | < 0.70        | < 0.80             | < 1.0        | < 0.90     |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ            | < 0.35 UJ     | < 0.40 UJ          | < 0.50 UJ    | < 0.45 UJ  |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50               | < 0.35        | < 0.40             | < 0.50       | < 0.45     |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ            | < 0.070 UJ    | < 0.080 UJ         | < 0.10 UJ    | < 0.090 UJ |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ            | 0.43 J-       | < 0.20 UJ          | < 0.30 UJ    | 77 J-      |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | 160 J-     |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | 230 J-     |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | 240 J-     |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | < 0.30 UJ  |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ             | 13,000 J-     | < 2.0 UJ           | < 3.0 UJ     | < 3.0 UJ   |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | 4.1 J-        | < 0.20 UJ          | < 0.30 UJ    | < 0.30 UJ  |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ             | 41,000 J-     | < 4.0 UJ           | 9.5 J-       | 11 J-      |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | 17 J-      |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ            | < 0.30 UJ     | < 0.20 UJ          | < 0.30 UJ    | < 0.30 UJ  |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ             | < 3.0 UJ      | < 2.0 UJ           | < 3.0 UJ     | < 3.0 UJ   |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | < 0.090    |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10               | < 0.070       | < 0.080            | < 0.10       | < 0.090    |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ             | < 1.5 UJ      | < 1.0 UJ           | < 1.5 UJ     | < 1.5 UJ   |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ             | 6,900 J-      | < 1.0 UJ           | < 1.5 UJ     | < 1.5 UJ   |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethane | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromochloromethane | Dibromomethane |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------|------------------------|-------------------------|----------------------|----------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE            | 590                    | NE                      | 1.3                  | NE             |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |               |                        |                         |                      |                |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | 0.19 j        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | 0.60 J-                | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50        | < 0.40                 | < 0.50                  | < 0.40               | < 0.40         |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0         | < 0.80                 | < 1.0                   | < 0.80               | < 0.80         |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | R             | < 0.080 UJ             | < 0.10 UJ               | < 0.080 UJ           | < 0.080 UJ     |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | 0.16 j        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ     | < 0.40 UJ              | < 0.50 UJ               | < 0.40 UJ            | < 0.40 UJ      |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0         | < 0.80                 | < 1.0                   | < 0.80               | < 0.80         |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50        | < 0.40                 | < 0.50                  | < 0.40               | < 0.40         |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0         | < 0.80                 | < 1.0                   | < 0.80               | < 0.80         |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0         | < 0.80                 | < 1.0                   | < 0.80               | < 0.80         |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ     | < 0.40 UJ              | < 0.50 UJ               | < 0.40 UJ            | < 0.40 UJ      |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50        | < 0.40                 | < 0.50                  | < 0.40               | < 0.40         |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ     | 0.22 J-                | < 0.10 UJ               | < 0.080 UJ           | < 0.080 UJ     |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | 0.51 J-              | 0.30 J-        |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | 0.51 J-              | < 0.30 UJ      |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 5.5 UJ      | 18 J-                  | < 2.0 UJ                | < 2.0 UJ             | < 3.0 UJ       |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 11 UJ       | < 6.0 UJ               | < 4.0 UJ                | < 4.0 UJ             | < 6.0 UJ       |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.55 UJ     | < 0.30 UJ              | < 0.20 UJ               | < 0.20 UJ            | < 0.30 UJ      |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 5.5 UJ      | < 3.0 UJ               | < 2.0 UJ                | < 2.0 UJ             | < 3.0 UJ       |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10        | < 0.080                | < 0.10                  | < 0.080              | < 0.080        |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 2.8 UJ      | < 1.5 UJ               | < 1.0 UJ                | < 1.0 UJ             | < 1.5 UJ       |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 2.8 UJ      | 3.6 J-                 | < 1.0 UJ                | < 1.0 UJ             | < 1.5 UJ       |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | Dichlorodifluoromethane (Freon 12) | Ethylbenzene | Ethylene dibromide | Hexachlorobutadiene | Isopropylbenzene (Cumene) |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|------------------------------------|--------------|--------------------|---------------------|---------------------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE                                 | 7.3          | NE                 | 0.01                | NE                        |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                                    |              |                    |                     |                           |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | 0.18 j              | < 0.080                   |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                             | 1.4 j        | < 0.40             | < 0.40              | < 0.40                    |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                              | < 0.80       | < 0.80             | < 0.80              | < 0.80                    |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.10 UJ                          | < 0.080 UJ   | < 0.080 UJ         | < 0.080 UJ          | < 0.080 UJ                |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ                          | < 0.40 UJ    | < 0.40 UJ          | < 0.40 UJ           | < 0.40 UJ                 |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                              | < 0.80       | < 0.80             | < 0.80              | < 0.80                    |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                             | < 0.40       | < 0.40             | < 0.40              | < 0.40                    |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                              | < 0.80       | < 0.80             | < 0.80              | < 0.80                    |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0                              | < 0.80       | < 0.80             | < 0.80              | < 0.80                    |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ                          | < 0.40 UJ    | < 0.40 UJ          | < 0.40 UJ           | < 0.40 UJ                 |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50                             | < 0.40       | < 0.40             | < 0.40              | < 0.40                    |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ                          | < 0.080 UJ   | < 0.080 UJ         | < 0.080 UJ          | < 0.080 UJ                |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ                           | < 4.0 UJ     | < 2.0 UJ           | < 20 UJ             | < 3.0 UJ                  |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ                           | < 8.0 UJ     | < 4.0 UJ           | < 40 UJ             | < 6.0 UJ                  |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ                          | < 0.40 UJ    | < 0.20 UJ          | < 2.0 UJ            | < 0.30 UJ                 |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ                           | < 4.0 UJ     | < 2.0 UJ           | < 20 UJ             | < 3.0 UJ                  |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10                             | < 0.080      | < 0.080            | < 0.080             | < 0.080                   |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ                           | < 2.0 UJ     | < 1.0 UJ           | < 10 UJ             | < 1.5 UJ                  |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ                           | < 2.0 UJ     | < 1.0 UJ           | < 10 UJ             | < 1.5 UJ                  |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
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SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
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U = Analyte was analyzed for, but not detected above, the limit displayed.  
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R = Data is rejected.

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Arkema Quarter 2, 2025, Groundwater Monitoring Report  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | m,p-Xylenes | Methyl tert-butyl ether | Methylene chloride | Naphthalene | n-Butylbenzene |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-------------|-------------------------|--------------------|-------------|----------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | 1.8         | NE                      | 59                 | 12          | NE             |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |             |                         |                    |             |                |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | < 0.30 UJ          | < 1.0 UJ    | < 0.30 UJ      |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | 2.3 j       | < 0.40                  | < 1.0              | < 0.50      | < 0.40         |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 2.0       | < 0.80                  | < 2.0              | < 1.0       | < 0.80         |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.20 UJ   | < 0.080 UJ              | < 0.20 UJ          | < 0.10 UJ   | < 0.080 UJ     |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 1.0 UJ    | < 0.40 UJ               | < 1.0 UJ           | < 0.50 UJ   | < 0.40 UJ      |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 2.0       | < 0.80                  | < 2.0              | < 1.0       | < 0.80         |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 1.0       | < 0.40                  | < 1.0              | < 0.50      | < 0.40         |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 2.0       | < 0.80                  | < 2.0              | < 1.0       | < 0.80         |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 2.0       | < 0.80                  | < 2.0              | < 1.0       | < 0.80         |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 1.0 UJ    | < 0.40 UJ               | < 1.0 UJ           | < 0.50 UJ   | < 0.40 UJ      |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 1.0       | < 0.40                  | < 1.0              | < 0.50      | < 0.40         |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.20 UJ   | < 0.080 UJ              | 0.22 J-            | < 0.10 UJ   | < 0.080 UJ     |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | 1.7 J-             | < 1.0 UJ    | < 0.30 UJ      |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | 0.68 J-            | < 1.0 UJ    | < 0.30 UJ      |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | 1.7 J-             | < 1.0 UJ    | < 0.30 UJ      |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | 1.7 J-             | < 1.0 UJ    | < 0.30 UJ      |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | < 0.30 UJ          | < 1.0 UJ    | < 0.30 UJ      |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 20 UJ     | < 2.0 UJ                | < 3.0 UJ           | < 10 UJ     | < 3.0 UJ       |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | < 0.30 UJ          | < 1.0 UJ    | < 0.30 UJ      |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 40 UJ     | < 4.0 UJ                | < 6.0 UJ           | < 20 UJ     | < 6.0 UJ       |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | 0.36 J-            | < 1.0 UJ    | < 0.30 UJ      |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 2.0 UJ    | < 0.20 UJ               | < 0.30 UJ          | < 1.0 UJ    | < 0.30 UJ      |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 20 UJ     | < 2.0 UJ                | < 3.0 UJ           | < 10 UJ     | < 3.0 UJ       |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | < 0.080                 | < 0.20             | < 0.10      | < 0.080        |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.20      | 0.14 j                  | < 0.20             | < 0.10      | < 0.080        |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 10 UJ     | < 1.0 UJ                | < 1.5 UJ           | < 5.0 UJ    | < 1.5 UJ       |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 10 UJ     | < 1.0 UJ                | < 1.5 UJ           | < 5.0 UJ    | < 1.5 UJ       |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
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| Analyte Unit                                                     |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | n-Propylbenzene | o-Chlorotoluene (2-chlorotoluene) | o-Xylene   | sec-Butylbenzene | Styrene    |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-----------------|-----------------------------------|------------|------------------|------------|
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE              | NE                                | 13         | NE               | NE         |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                 |                                   |            |                  |            |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | 0.075 j    | < 0.10           | < 0.070    |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | 0.087 j    | < 0.10           | < 0.070    |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.10          | < 0.080                           | < 0.070    | < 0.10           | < 0.070    |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50          | < 0.40                            | 0.47 j     | < 0.50           | < 0.35     |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0           | < 0.80                            | < 0.70     | < 1.0            | < 0.70     |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | < 0.070    | < 0.10           | < 0.070    |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.10 UJ       | < 0.080 UJ                        | < 0.070 UJ | < 0.10 UJ        | < 0.070 UJ |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | 0.098 j    | < 0.10           | < 0.070    |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ       | < 0.40 UJ                         | < 0.35 UJ  | < 0.50 UJ        | < 0.35 UJ  |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0           | < 0.80                            | < 0.70     | < 1.0            | < 0.70     |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50          | < 0.40                            | < 0.35     | < 0.50           | < 0.35     |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0           | < 0.80                            | < 0.70     | < 1.0            | < 0.70     |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 1.0           | < 0.80                            | < 0.70     | < 1.0            | < 0.70     |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.50 UJ       | < 0.40 UJ                         | < 0.35 UJ  | < 0.50 UJ        | < 0.35 UJ  |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.50          | < 0.40                            | < 0.35     | < 0.50           | < 0.35     |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.10 UJ       | < 0.080 UJ                        | < 0.070 UJ | < 0.10 UJ        | < 0.070 UJ |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ        | < 3.0 UJ                          | < 4.0 UJ   | < 3.0 UJ         | < 3.0 UJ   |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ        | < 6.0 UJ                          | < 8.0 UJ   | < 6.0 UJ         | < 6.0 UJ   |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.40 UJ  | < 0.30 UJ        | < 0.30 UJ  |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ        | < 3.0 UJ                          | < 4.0 UJ   | < 3.0 UJ         | < 3.0 UJ   |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | 0.11 j     | < 0.10           | < 0.070    |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.10          | < 0.080                           | < 0.070    | < 0.10           | < 0.070    |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ                          | < 2.0 UJ   | < 1.5 UJ         | < 1.5 UJ   |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ                          | < 2.0 UJ   | < 1.5 UJ         | < 1.5 UJ   |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
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SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
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U = Analyte was analyzed for, but not detected above, the limit displayed.  
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R = Data is rejected.

Table 4  
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Arkema Quarter 2, 2025, Groundwater Monitoring Report  
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| Analyte                                                          |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | tert-Butylbenzene | Tetrachloroethene | Toluene    | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-------------------|-------------------|------------|--------------------------|---------------------------|
| Unit                                                             |             |             |                        |                   | µg/L                      | µg/L                  | µg/L                      | µg/L                  | µg/L               | µg/L               | µg/L              | µg/L              | µg/L       | µg/L                     | µg/L                      |
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | NE                | 0.33              | 9.8        | 1000                     | NE                        |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                   |                   |            |                          |                           |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | < 0.20            | < 0.080    | < 0.10                   | < 0.080                   |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | 4.4 J-            | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | 0.44 j            | < 0.080    | < 0.10                   | < 0.080                   |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.080           | < 0.20            | 0.096 j    | < 0.10                   | < 0.080                   |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40            | < 1.0             | 2.0 j      | < 0.50                   | < 0.40                    |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80            | < 2.0             | < 0.80     | < 1.0                    | < 0.80                    |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | 0.20 j            | < 0.080    | < 0.10                   | < 0.080                   |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.080 UJ        | < 0.20 UJ         | < 0.080 UJ | < 0.10 UJ                | < 0.080 UJ                |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | < 0.20            | < 0.080    | < 0.10                   | < 0.080                   |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ         | < 1.0 UJ          | < 0.40 UJ  | < 0.50 UJ                | < 0.40 UJ                 |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80            | < 2.0             | < 0.80     | < 1.0                    | < 0.80                    |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40            | < 1.0             | 0.49 j     | < 0.50                   | < 0.40                    |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80            | < 2.0             | < 0.80     | < 1.0                    | < 0.80                    |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80            | < 2.0             | < 0.80     | < 1.0                    | < 0.80                    |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ         | < 1.0 UJ          | < 0.40 UJ  | < 0.50 UJ                | < 0.40 UJ                 |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40            | < 1.0             | < 0.40     | < 0.50                   | < 0.40                    |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.080 UJ        | < 0.20 UJ         | < 0.080 UJ | < 0.10 UJ                | < 0.080 UJ                |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ         | 0.43 J-           | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ          | 13 J-             | < 3.0 UJ   | < 7.0 UJ                 | < 2.0 UJ                  |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | < 6.0 UJ          | 6.7 J-            | < 6.0 UJ   | < 14 UJ                  | < 4.0 UJ                  |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ         | < 0.30 UJ         | < 0.30 UJ  | < 0.70 UJ                | < 0.20 UJ                 |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ          | < 3.0 UJ          | < 3.0 UJ   | < 7.0 UJ                 | < 2.0 UJ                  |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | < 0.20            | < 0.080    | < 0.10                   | < 0.080                   |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080           | < 0.20            | < 0.080    | < 0.10                   | < 0.080                   |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ          | < 1.5 UJ          | < 1.5 UJ   | < 3.5 UJ                 | < 1.0 UJ                  |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ          | < 1.5 UJ          | < 1.5 UJ   | < 3.5 UJ                 | < 1.0 UJ                  |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria  
N = Normal Environmental Sample  
NE = Not Established  
SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
j = The analyte was positively identified below the RDL; associated numerical value is the approximate concentration of the analyte in the sample.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 4  
Volatile Organic Compounds Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte                                                          |             |             |                        |                   | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | Trichloroethene | Trichlorofluoromethane (Freon 11) | Vinyl chloride |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|-----------------|-----------------------------------|----------------|
| Unit                                                             |             |             |                        |                   | µg/L                      | µg/L                  | µg/L                      | µg/L                  | µg/L               | µg/L               | µg/L            | µg/L                              | µg/L           |
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | NE                        | 11                    | 0.4                       | 1.6                   | 47                 | 710                | 3               | NE                                | 0.24           |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |                           |                       |                           |                       |                    |                    |                 |                                   |                |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | 0.75 J-         | < 0.30 UJ                         | < 0.30 UJ      |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | 0.25 j          | < 0.10                            | < 0.10         |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | 0.11 j             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.50                            | < 0.50         |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 1.0                             | < 1.0          |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | < 0.070 UJ                | 0.19 J-               | < 0.10 UJ                 | < 0.080 UJ            | 0.12 J-            | 0.68 J-            | < 0.080 UJ      | < 0.10 UJ                         | < 0.10 UJ      |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81I-051325    | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ       | < 0.50 UJ                         | < 0.50 UJ      |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15I-051225     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 1.0                             | < 1.0          |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16I-051225     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.50                            | < 0.50         |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17IR-051325    | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 1.0                             | < 1.0          |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | < 0.70                    | < 0.80                | < 1.0                     | < 0.80                | < 1.0              | < 1.0              | < 0.80          | < 1.0                             | < 1.0          |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32I-051425     | < 0.35 UJ                 | < 0.40 UJ             | < 0.50 UJ                 | < 0.40 UJ             | < 0.50 UJ          | < 0.50 UJ          | < 0.40 UJ       | < 0.50 UJ                         | < 0.50 UJ      |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44I-051325     | < 0.35                    | < 0.40                | < 0.50                    | < 0.40                | < 0.50             | < 0.50             | < 0.40          | < 0.50                            | < 0.50         |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11I(D)-051425 | < 0.070 UJ                | < 0.080 UJ            | < 0.10 UJ                 | < 0.080 UJ            | < 0.10 UJ          | < 0.10 UJ          | < 0.080 UJ      | < 0.10 UJ                         | < 0.10 UJ      |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31I(D)-051325 | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | 0.43 J-            | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58D-051425    | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | 0.33 J-         | < 0.30 UJ                         | < 0.30 UJ      |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19D-051425     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | 30 J-           | < 3.0 UJ                          | < 3.0 UJ       |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20D-051425     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21D-051425     | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ                  | < 6.0 UJ              | < 6.0 UJ           | < 6.0 UJ           | 6.9 J-          | < 6.0 UJ                          | < 6.0 UJ       |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23D-051325     | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ                 | < 0.30 UJ             | < 0.30 UJ          | < 0.30 UJ          | < 0.30 UJ       | < 0.30 UJ                         | < 0.30 UJ      |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24D-051225     | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ                  | < 3.0 UJ              | < 3.0 UJ           | < 3.0 UJ           | < 3.0 UJ        | < 3.0 UJ                          | < 3.0 UJ       |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26D-051225     | < 0.070                   | < 0.080               | < 0.10                    | < 0.080               | < 0.10             | < 0.10             | < 0.080         | < 0.10                            | < 0.10         |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27D-051325     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ                          | < 1.5 UJ       |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30D-051525     | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ                  | < 1.5 UJ              | < 1.5 UJ           | < 1.5 UJ           | < 1.5 UJ        | < 1.5 UJ                          | < 1.5 UJ       |

Notes:  
Bolded values indicate concentrations above the Method Detection Limit.  
Shaded values indicate concentrations above the FSWP SHSC.  
< = Compound not detected. Method Detection Limit shown.  
µg/L = micrograms per liter  
FD = Field Duplicate Sample  
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SW8260C analyses performed by TestAmerica - Seattle, WA of Seattle.

Qualifiers - Organic:  
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J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
U = Analyte was analyzed for, but not detected above, the limit displayed.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Data is rejected.

Table 5  
Additional Compounds Results  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Analyte                                                          |             |             |                        |                   | Chloride | Perchlorate |
|------------------------------------------------------------------|-------------|-------------|------------------------|-------------------|----------|-------------|
| Unit                                                             |             |             |                        |                   | mg / L   | µg / L      |
| FSWP SHSC (shaded values indicate results above the value shown) |             |             |                        |                   | 230      | 1800        |
| Location ID                                                      | Sample Date | Sample Type | Aquifer Classification | Sample ID         |          |             |
| MWA-41                                                           | 5-13-2025   | N           | Shallow                | MWA-41-051325     | 8.6      | < 0.91      |
| MWA-63                                                           | 5-14-2025   | N           | Shallow                | MWA-63-051425     | 4.7      | < 4.5       |
| MWA-82                                                           | 5-13-2025   | N           | Shallow                | MWA-82-051325     | 9.4      | 93          |
| PA-03                                                            | 5-13-2025   | N           | Shallow                | PA-03-051325      | 9.3      | < 36        |
| PA-04                                                            | 5-13-2025   | N           | Shallow                | PA-04-051325      | 60       | < 9.1       |
| PA-08                                                            | 5-12-2025   | N           | Shallow                | PA-08-051225      | 260      | < 36        |
| PA-09                                                            | 5-12-2025   | N           | Shallow                | PA-09-051225      | 69       | < 4.5       |
| PA-31                                                            | 5-14-2025   | N           | Shallow                | PA-31-051425      | 3.4      | < 9.1       |
| MWA-81i                                                          | 5-13-2025   | N           | Intermediate           | MWA-81i-051325    | 28       | < 0.91      |
| PA-10i                                                           | 5-14-2025   | N           | Intermediate           | PA-10i-051425     | 36       | < 36        |
| PA-15i                                                           | 5-12-2025   | N           | Intermediate           | PA-15i-051225     | 34       | < 36        |
| PA-16i                                                           | 5-12-2025   | N           | Intermediate           | PA-16i-051225     | 11       | < 9.1       |
| PA-17iR                                                          | 5-13-2025   | N           | Intermediate           | PA-17iR-051325    | 57       | < 91        |
| PA-17iR                                                          | 5-13-2025   | FD          | Intermediate           | DUP-01-051325     | 58       | < 91        |
| PA-32i                                                           | 5-14-2025   | N           | Intermediate           | PA-32i-051425     | 47       | < 91        |
| PA-44i                                                           | 5-13-2025   | N           | Intermediate           | PA-44i-051325     | 62       | < 36        |
| MWA-11i(d)                                                       | 5-14-2025   | N           | Deep                   | MWA-11i(d)-051425 | 900      | < 0.91      |
| MWA-31i(d)                                                       | 5-13-2025   | N           | Deep                   | MWA-31i(d)-051325 | 22,000   | 100,000     |
| MWA-56d                                                          | 5-14-2025   | N           | Deep                   | MWA-56d-051425    | 14,000   | 12,000      |
| MWA-58d                                                          | 5-14-2025   | N           | Deep                   | MWA-58d-051425    | 18,000   | 48,000      |
| MWA-58d                                                          | 5-14-2025   | FD          | Deep                   | DUP-02-051425     | 18,000   | 47,000      |
| PA-18d                                                           | 5-14-2025   | N           | Deep                   | PA-18d-051425     | 53       | < 91        |
| PA-19d                                                           | 5-14-2025   | N           | Deep                   | PA-19d-051425     | 250      | 100         |
| PA-20d                                                           | 5-14-2025   | N           | Deep                   | PA-20d-051425     | 460      | < 0.91      |
| PA-21d                                                           | 5-14-2025   | N           | Deep                   | PA-21d-051425     | 370      | 1,100       |
| PA-22d                                                           | 5-13-2025   | N           | Deep                   | PA-22d-051325     | 5,100    | 13,000      |
| PA-23d                                                           | 5-13-2025   | N           | Deep                   | PA-23d-051325     | 31,000   | < 36        |
| PA-24d                                                           | 5-12-2025   | N           | Deep                   | PA-24d-051225     | 630      | < 36        |
| PA-25d                                                           | 5-12-2025   | N           | Deep                   | PA-25d-051225     | 15       | < 0.91      |
| PA-26d                                                           | 5-12-2025   | N           | Deep                   | PA-26d-051225     | 86       | < 0.91      |
| PA-27d                                                           | 5-13-2025   | N           | Deep                   | PA-27d-051325     | 600      | < 91        |
| PA-30d                                                           | 5-15-2025   | N           | Deep                   | PA-30d-051525     | 310      | < 91        |

Notes:

Bolded values indicate concentrations above the Method Detection Limit.

Shaded values indicate concentrations above the FSWP SHSC.

< = Compound not detected. Method Detection Limit shown.

µg/L = micrograms per liter

mg/L = milligrams per liter

FD = Field Duplicate Sample

FSWP SHSC = Feasibility Study Work Plan Indirect Exposure Pathway Selected Hot Spot Criteria

N = Normal Environmental Sample

E300 analyses performed by TestAmerica - Seattle, WA of Seattle.

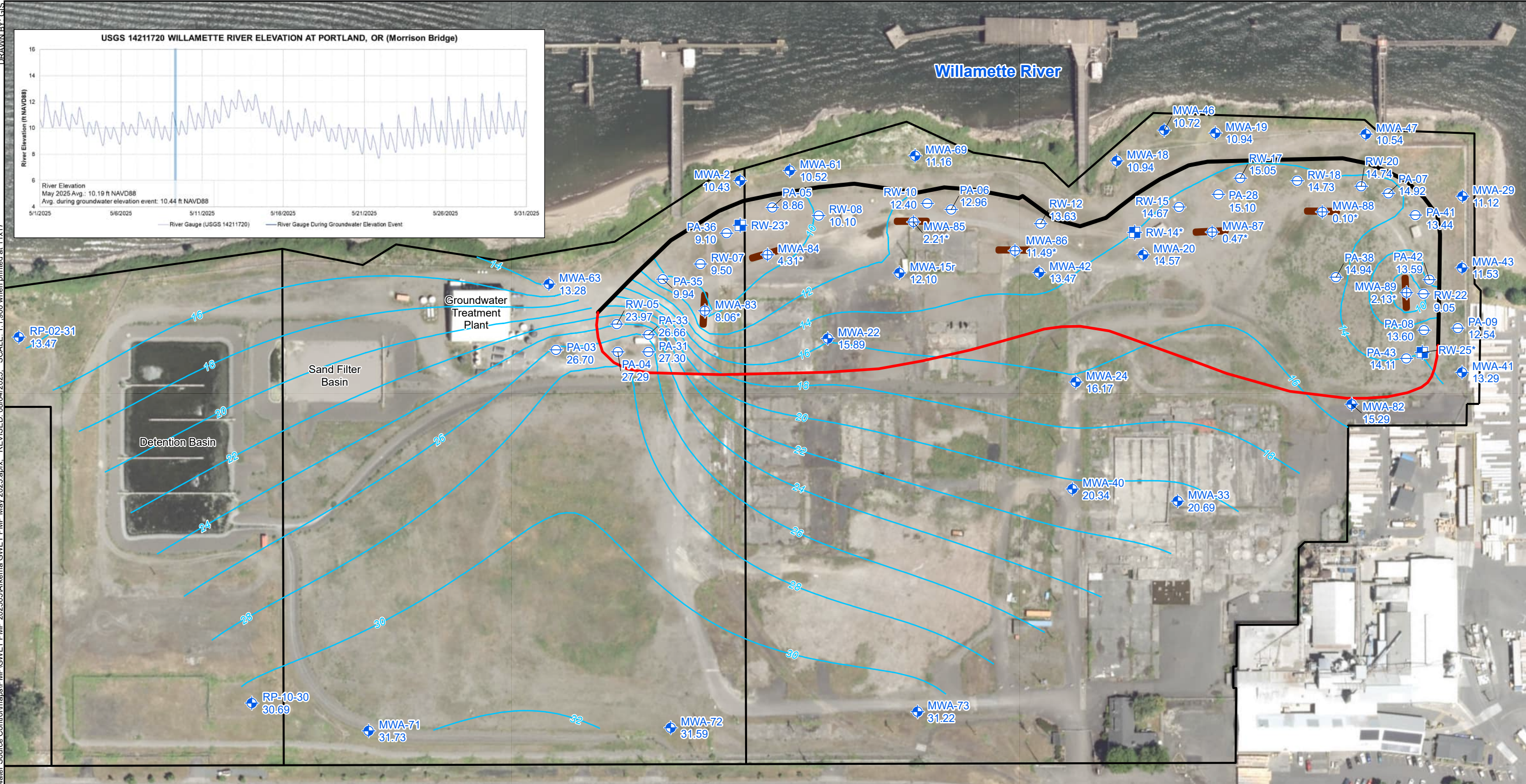
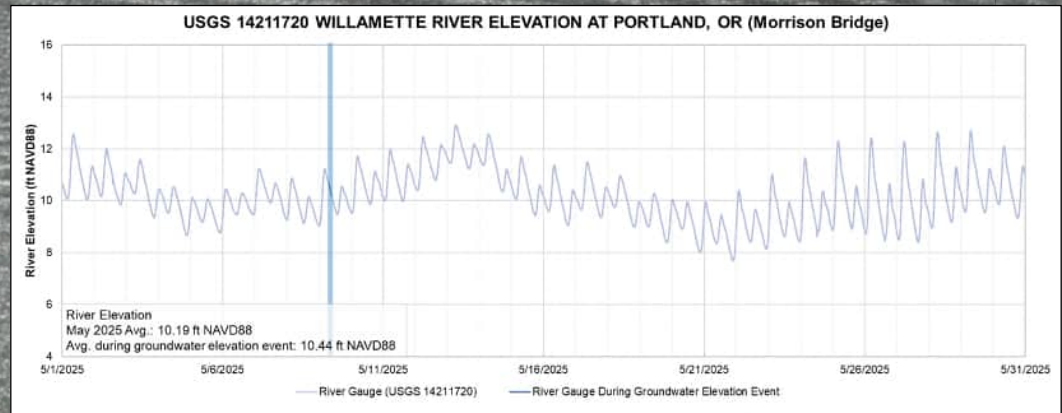
E314.0 analyses performed by TestAmerica - Sacramento, CA of West Sacramento.



## FIGURES



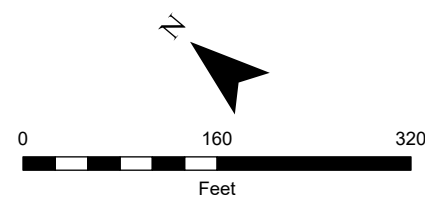
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DRAWN BY: GIS  
NAD 1983 StatePlane Oregon North FIPS 3601 Feet Intl



**Legend**

- Shallow Zone Piezometer
- Shallow Zone Monitoring Well
- Active Recovery Well;  
Not Used During Contouring
- Shallow-Intermediate Zone Monitoring Well
- 27.70 Groundwater Elevation (ft NAVD88)
- Shallow Zone Groundwater Contours  
(ft NAVD88) Dashed where Inferred
- Target Capture Zone
- Barrier Wall Alignment
- Extraction Trench (Not To Scale)

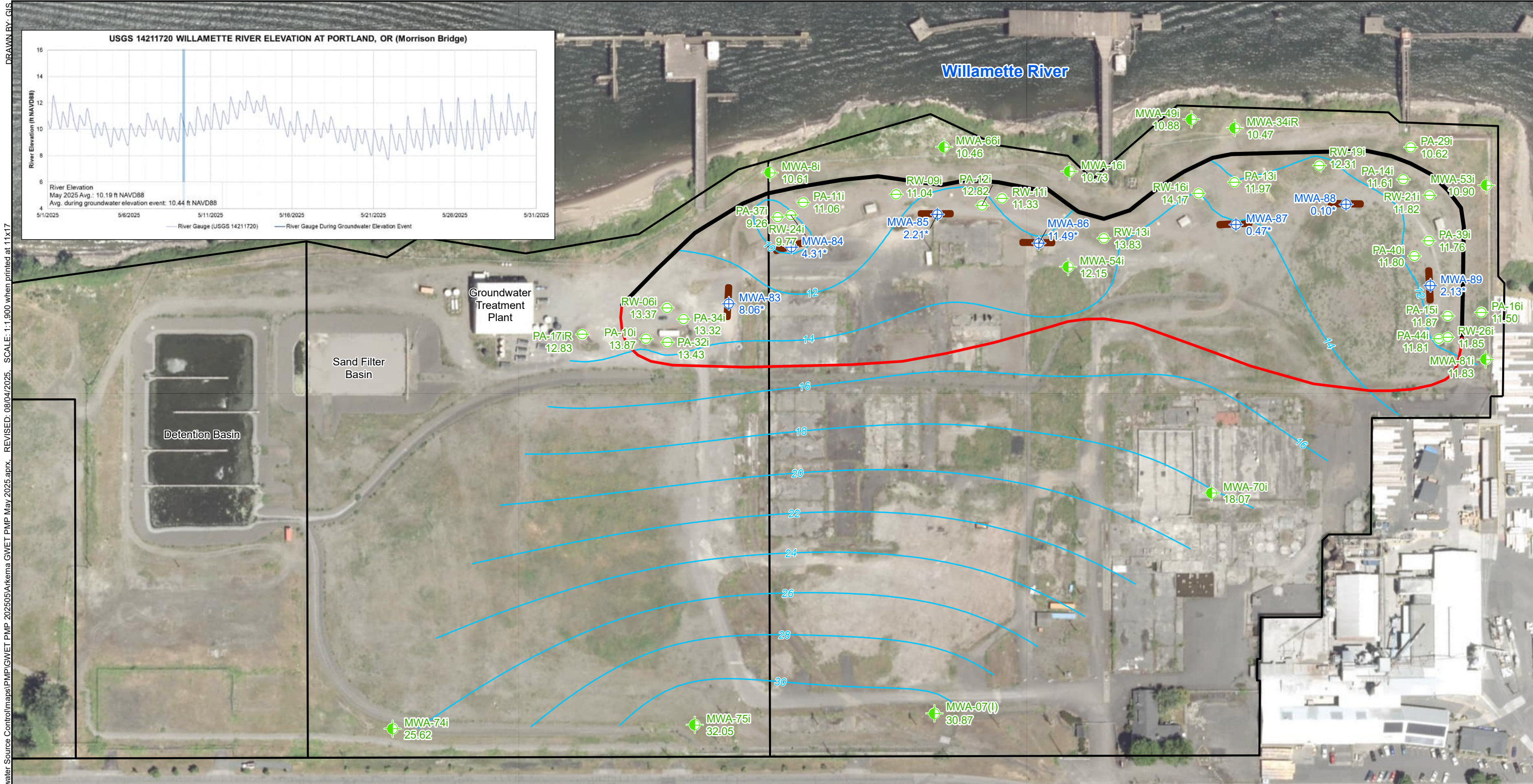
Notes:  
\* Value not used for contouring.  
Water levels collected May 9, 2025.  
ft NAVD88: feet North American Vertical Datum  
of 1988.  
Aerial Photo: City of Portland, Summer 2017.



**Figure 2**  
**May 2025 Shallow Zone Groundwater Contours**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon

M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Source Control\maps\PMP\GWET PMP 202505\Arkema GWET PMP May 2025.aprx. REVISED: 08/04/2025. SCALE: 1:1,900 when printed at 11x17

DRAWN BY: GIS



### Legend

- Intermediate Zone Piezometer
- Intermediate Zone Monitoring Well
- Shallow-Intermediate Zone Monitoring Well
- 27.70 Groundwater Elevation (ft NAVD88)
- Intermediate Zone Groundwater Contours (ft NAVD88) Dashed where Inferred
- Target Capture Zone
- Barrier Wall Alignment
- Extraction Trench (Not To Scale)

Notes:

- \* Value not used for contouring.
- Water levels collected May 9, 2025.
- ft NAVD88: feet North American Vertical Datum of 1988.
- Aerial Photo: City of Portland, Summer 2017.

0 160 320

Feet

### Figure 3

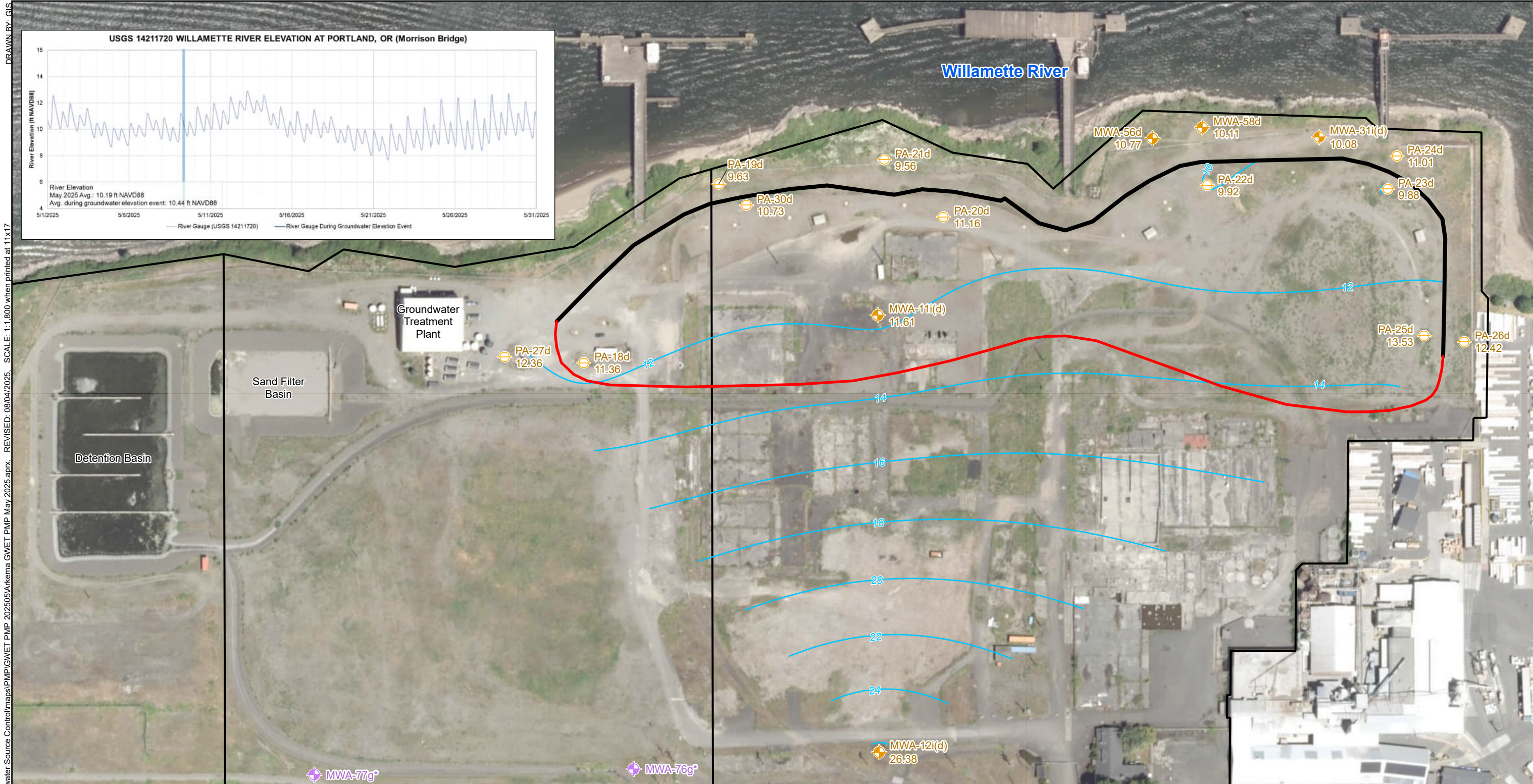
**May 2025 Intermediate Zone Groundwater Contours**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon

Environmental Resources Management  
www.erm.com

ERM

M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Source Control\maps\PMP\GWET PMP 202505\Arkema GWET PMP May 2025.aprx. REVISED: 08/04/2025. SCALE: 1:1,800 when printed at 11x17

DRAWN BY: GIS



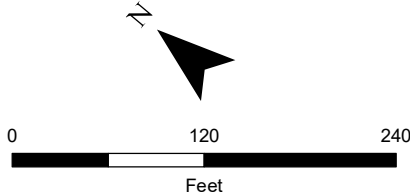
M:\US\Projects\IS-UT\Total\Arkema Portland Groundwater Monitoring Report\Data\Scripts\Arkema Working Maps\2025 Q2\Figure 5 Chlorobenzene Shallow.mxd, REVISED: 06/04/2025, SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- |                      |                                                          |
|----------------------|----------------------------------------------------------|
| ● > 6,400 µg/L       | — Target Capture Zone                                    |
| ● ≥ 640 - 6,400 µg/L | — Barrier Wall Alignment                                 |
| ● ≥ 64 - < 640 µg/L  | — Parcel and Property Boundaries                         |
| ● < 64 µg/L          | — Shallow Zone Groundwater Contours (ft NAVD88) May 2025 |
| ○ Not Detected       |                                                          |
| ⊗ Not Sampled        |                                                          |

Notes:  
Samples collected May 12-15, 2025  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening criteria for Chlorobenzene = 64 µg/L  
See Table 4 for definition of qualifiers  
ND: Non-Detect  
NS: Not Sampled



**Figure 5**  
**Chlorobenzene Groundwater Concentrations**  
**Shallow Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



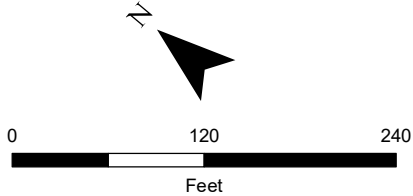
M:\US\Projects\IS-UT\Arkema Portland Groundwater Monitoring Report\ReportData\Scripts\Arkema Working Maps\2025 Q2\Figure 6 Chlorobenzene Intermediate.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 6,400 µg/L
- ≥ 640 - 6,400 µg/L
- ≥ 64 - < 640 µg/L
- < 64 µg/L
- Not Detected
- ⊙ Not Sampled
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Intermediate Zone Groundwater Contours (ft NAVD88) May 2025

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for Chlorobenzene = 64 µg/L.  
See Table 4 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 6**  
**Chlorobenzene Groundwater Concentrations**  
**Intermediate Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



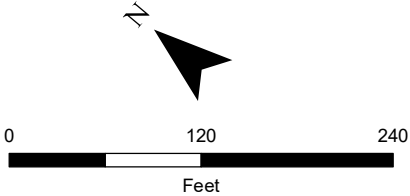
M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 7 Chlorobenzene Deep.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 6,400 µg/L
- >= 640 - 6,400 µg/L
- >= 64 - < 640 µg/L
- < 64 µg/L
- Not Detected
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Deep Zone Groundwater Contours (ft NAVD88) June 2025

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in red exceed screening criteria.  
Screening Criteria for Chlorobenzene = 64 µg/L.  
See Table 4 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 7**  
**Chlorobenzene Groundwater Concentrations**  
**Deep Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 8 12-Dichlorobenzene Shallow.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17, DRAWN BY: Jake Sullivan, DATE: 8/4/2025



**Legend**

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| ● > 1,400 µg/L       | — Target Capture Zone                                    |
| ● ≥ 140 - 1,400 µg/L | — Barrier Wall Alignment                                 |
| ● ≥ 14 - < 140 µg/L  | — Parcel and Property Boundaries                         |
| ● < 14 µg/L          | — Shallow Zone Groundwater Contours (ft NAVD88) May 2025 |
| ○ Not Detected       |                                                          |
| ⊕ Not Sampled        |                                                          |

**Notes:**  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for 1,2-Dichlorobenzene = 14 µg/L.  
See Table 4 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled

**Figure 8**  
**1,2-Dichlorobenzene Groundwater Concentrations**  
**Shallow Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon

0 120 240  
Feet

ERM

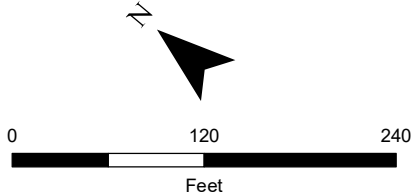
M:\US\Projects\IS-UTols\Arkema Portland Groundwater Monitoring Report\ReportData\Scripts\Arkema Working Maps\2025 Q2\Figure 9 1,2-Dichlorobenzene Intermediate Zone.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- |                      |                                                               |
|----------------------|---------------------------------------------------------------|
| ● > 1,400 µg/L       | — Target Capture Zone                                         |
| ● ≥ 140 - 1,400 µg/L | — Barrier Wall Alignment                                      |
| ● ≥ 14 - < 140 µg/L  | — Parcel and Property Boundaries                              |
| ● < 14 µg/L          | — Intermediate Zone Groundwater Contours (ft NAVD88) May 2025 |
| ○ Not Detected       |                                                               |
| ● Not Sampled        |                                                               |

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for 1,2-Dichlorobenzene = 14 µg/L.  
See Table 4 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 9**  
**1,2-Dichlorobenzene Groundwater Concentrations**  
**Intermediate Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps2025 Q2\Figure 10 12-Dichlorobenzene Deep.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 1080x720, DATE: 8/4/2025



**Legend**

- > 1,400 µg/L

>= 140 - 1,400 µg/L

>= 14 - < 140 µg/L

< 14 µg/L

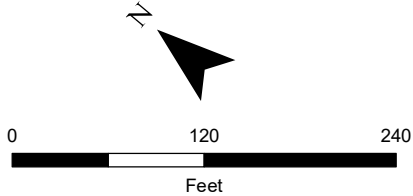
Not Detected

Target Capture Zone
- Barrier Wall Alignment

Parcel and Property Boundaries

Deep Zone Groundwater Contours (ft NAVD88) May 2025

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for 1,2-Dichlorobenzene = 14 µg/L.  
See Table 4 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 10**  
**1,2-Dichlorobenzene Groundwater Concentrations**  
**Deep Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



M:\US\Projects\IS-UT\Arkema Portland\Groundwater Monitoring\Report\Scripts\Arkema Working\Maps\2025 Q2\Figure 11 VOCs PieChart Shallow.mxd REVISED: 08/21/2025 SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Tyler Harris DATE: 8/21/2025



**Legend**

**Molar Ratio**

- Tetrachloroethene
- Trichloroethene
- cis-1,2-Dichloroethene
- Vinyl chloride

- Not Detected
- Not Sampled
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Shallow Zone Groundwater Contours (ft NAVD88) May 2025

**Notes:**  
Samples collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening criteria for tetrachloroethene (PCE) = 0.33 µg/L.  
Screening criteria for trichloroethene (TCE) = 3 µg/L.  
Screening criteria for cis-1,2-dichloroethene (Cis-1,2) = 590 µg/L.  
Screening criteria for vinyl chloride (VC) = 0.24 µg/L.  
ND: Non-Detect  
NS: Not Sampled

N

0 120 240  
Feet

**Figure 11**  
**PCE, TCE, cis-1,2-DCE and**  
**Vinyl Chloride Groundwater Concentrations**  
**Shallow Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon

M:\US\Projects\IS-UT\Arkema Portland\Groundwater Monitoring\Report\Scripts\Arkema Working\Maps\2025 Q2\Figure 12 VOCs PieChart Intermediate.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Tyler Harris DATE: 8/21/2025



**Legend**

**Molar Ratio**

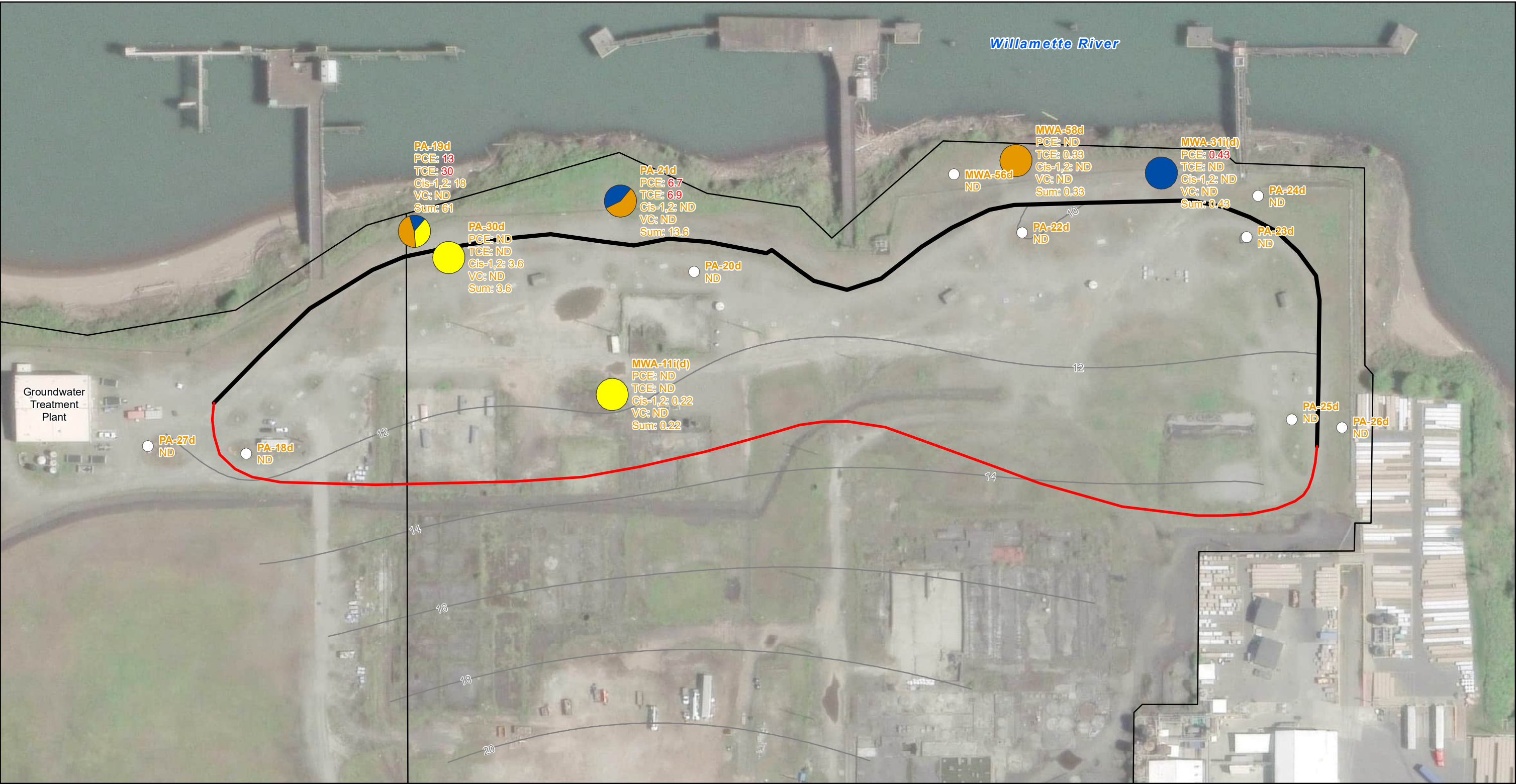
Tetrachloroethene  
Trichloroethene  
cis-1,2-Dichloroethene  
Vinyl chloride

Not Detected  
Not Sampled  
Target Capture Zone  
Barrier Wall Alignment  
Parcel and Property Boundaries  
Intermediate Zone Groundwater Contours (ft NAVD88) May 2025

**Notes:**  
Samples collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening criteria for tetrachloroethene (PCE) = 0.33 µg/L.  
Screening criteria for trichloroethene (TCE) = 3 µg/L.  
Screening criteria for cis-1,2-dichloroethene (Cis-1,2) = 590 µg/L.  
Screening criteria for vinyl chloride (VC) = 0.24 µg/L.  
ND: Non-Detect  
NS: Not Sampled

**Figure 12**  
**PCE, TCE, cis-1,2-DCE and Vinyl Chloride Groundwater Concentrations Intermediate Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon

M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps2025 Q2\Figure 13 VOCs PieChart Deep.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Tyler Harris DATE: 8/4/2025



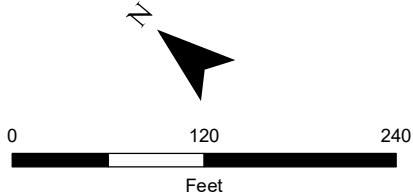
M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 14 Perchlorate Shallow.mxd, REVISED: 09/04/2025, SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 180,000 µg/L
- >= 18,000 - 180,000 µg/L
- >= 1,800 - < 18,000 µg/L
- < 1,800 µg/L
- Not Detected
- ⊕ Not Sampled
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Shallow Zone Groundwater Contours (ft NAVD88) May 2025

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for Perchlorate = 1,800 µg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 14**  
**Perchlorate Groundwater Concentrations**  
**Shallow Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



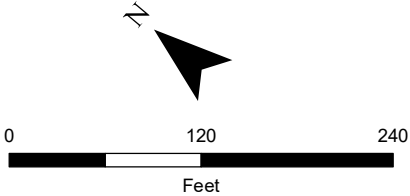
M:\US\Projects\IS-UTols\Arkema Portland Groundwater Monitoring Report\ReportData\Scripts\Arkema Working Maps\2025 Q2\Figure 15 Perchlorate Intermediate Zone.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17  
DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- |                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| ● > 180,000 µg/L           | — Target Capture Zone                                         |
| ● >= 18,000 - 180,000 µg/L | — Barrier Wall Alignment                                      |
| ● >= 1,800 - < 18,000 µg/L | — Parcel and Property Boundaries                              |
| ● < 1,800 µg/L             | — Intermediate Zone Groundwater Contours (ft NAVD88) May 2025 |
| ○ Not Detected             |                                                               |
| ⊗ Not Sampled              |                                                               |

Notes:  
Samples Collected May 12-15, 2025  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for Perchlorate = 1,800 µg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 15**  
**Perchlorate Groundwater Concentrations**  
**Intermediate Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



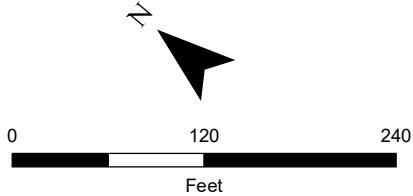
M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 16 Perchlorate Deep.mxd, REVISED: 08/04/2025, SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 180,000 µg/L
- >= 18,000 - 180,000 µg/L
- >= 1,800 - < 18,000 µg/L
- < 1,800 µg/L
- Not Detected
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Deep Zone Groundwater Contours (ft NAVD88) May 2025
- Target Capture Zone

Notes:  
Samples Collected May 12-15, 2025.  
All results in micrograms per liter (µg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for Perchlorate = 1,800 µg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 16**  
**Perchlorate Groundwater Concentrations**  
**Deep Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



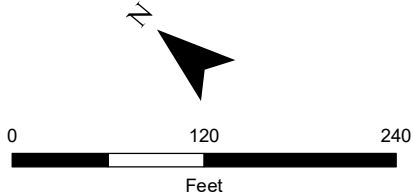
M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 17 Chloride Shallow.mxd. REVISED: 08/04/2025. SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 23,000 mg/L
- >= 2,300 - 23,000 mg/L
- >= 230 - < 2,300 mg/L
- < 230 mg/L
- Not Detected
- ⊕ Not Sampled
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Shallow Zone Groundwater Contours (ft NAVD88) May 2025

Notes:  
Samples Collected May 12-15, 2025.  
All results in milligrams per liter (mg/L).  
Results in **red** exceed screening criteria.  
Screening Criteria for Chloride = 230 mg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 17**  
**Chloride Groundwater Concentrations**  
**Shallow Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



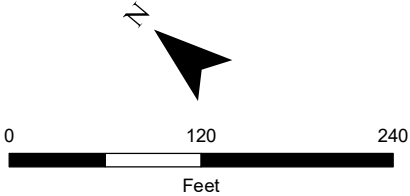
M:\US\Projects\IS-UTols\Arkema Portland Groundwater Monitoring Report\Report\Scripts\Arkema Working Maps\2025 Q2\Figure 18 Chloride Intermediate Zone.mxd REVISED: 08/04/2025 SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 23,000 mg/L
- >= 2,300 - 23,000 mg/L
- >= 230 - < 2,300 mg/L
- < 230 mg/L
- Not Detected
- ⊙ Not Sampled
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Intermediate Zone Groundwater Contours (ft NAVD88) May 2025

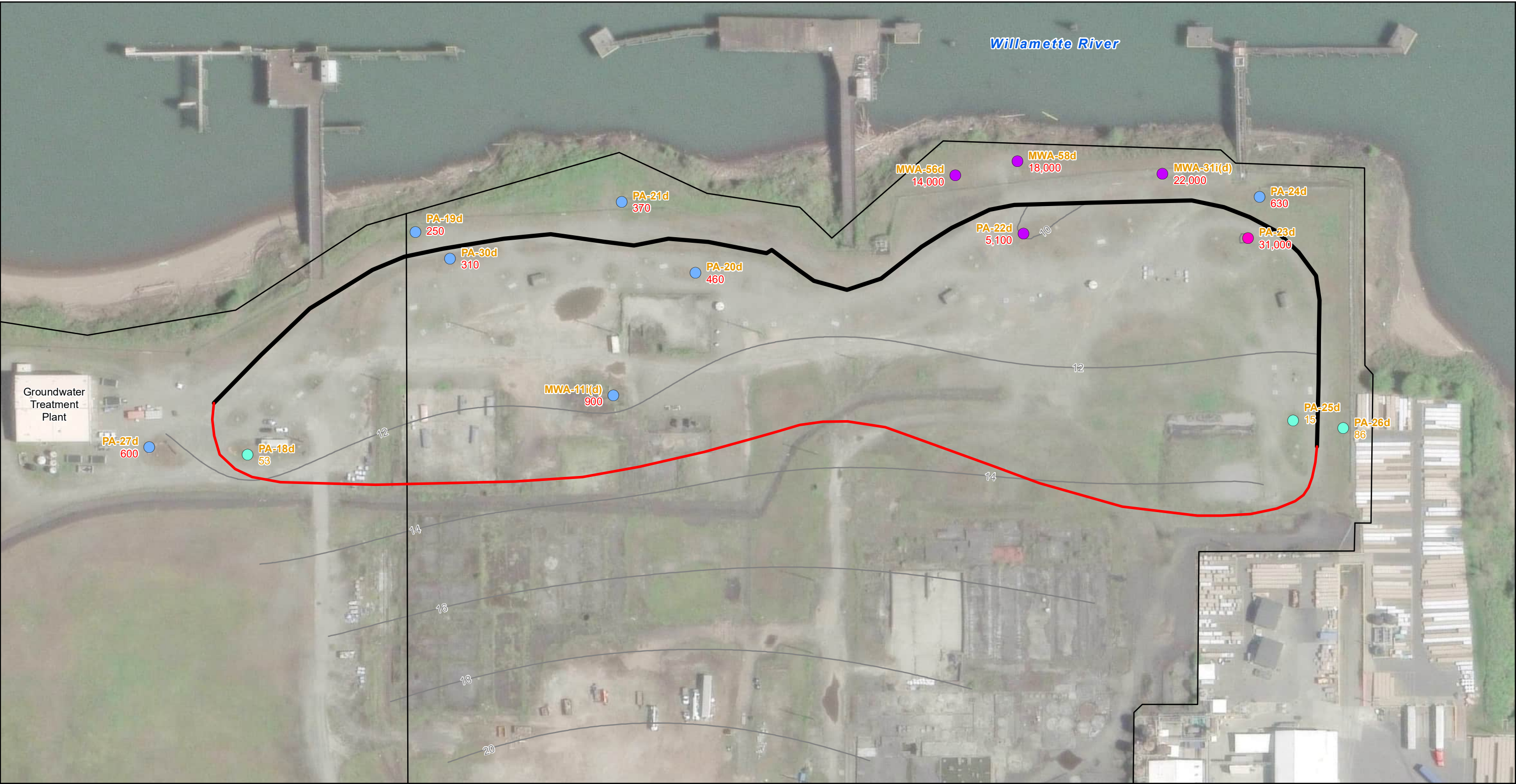
Notes:  
Samples Collected May 12-15, 2025.  
All results in milligrams per liter (mg/L).  
Results in red exceed screening criteria.  
Screening Criteria for Chloride = 230 mg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled



**Figure 18**  
**Chloride Groundwater Concentrations**  
**Intermediate Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



M:\US\Projects\S-U\Total\Arkema Portland\Groundwater Monitoring Report\Data\Scripts\Arkema Working\Maps\2025 Q2\Figure 19 Chloride Deep.mxd REVISED: 08/04/2025 SCALE: 1:1,440 when printed at 11x17 DRAWN BY: Jake Sullivan DATE: 8/4/2025



**Legend**

- > 23,000 mg/L
- >= 2,300 - < 23,000 mg/L
- < 230 mg/L
- Not Detected
- Target Capture Zone
- Barrier Wall Alignment
- Parcel and Property Boundaries
- Deep Zone Groundwater Contours (ft NAVD88) May 2025

**Notes:**  
Samples Collected May 12-15, 2025.  
All results in milligrams per liter (mg/L).  
Results in red exceed screening criteria.  
Screening Criteria for Chloride = 230 mg/L.  
See Table 5 for definition of qualifiers.  
ND: Non-Detect  
NS: Not Sampled

**Figure 19**  
**Chloride Groundwater Concentrations Deep Zone**  
Quarter 2, 2025  
Groundwater Monitoring Report  
Arkema Inc.  
Portland, Oregon



## APPENDIX A      FIELD FORMS



## Low Flow Groundwater Sampling Field Data Form

**Well ID: MWA-31I(D)**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 57 (ft)          | <b>Reference Elevation</b><br>38.36 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>26.81 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>59.38 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>160 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 3.36 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 09:52 | 26.85       | 160                   |                        | 16.4                      | 6.42               | 41556                                       | NM                            | 3.08                                  | 139.2                 | 31.28                      | NM                               |          |
| 09:55 | 26.85       |                       |                        | 16.3                      | 6.51               | 51874                                       | NM                            | 1.43                                  | 129.2                 | 21.76                      | NM                               |          |
| 09:58 | 26.85       |                       |                        | 16.1                      | 6.53               | 54589                                       | NM                            | 1.05                                  | 128.6                 | 16.04                      | NM                               |          |
| 10:01 | 26.85       |                       |                        | 16.1                      | 6.55               | 55648                                       | NM                            | 0.85                                  | 128.7                 | 9.15                       | NM                               |          |
| 10:04 | 26.85       |                       |                        | 16                        | 6.56               | 56156                                       | NM                            | 0.8                                   | 128.6                 | 10.82                      | NM                               |          |
| 10:07 | 26.85       |                       |                        | 15.9                      | 6.56               | 56585                                       | NM                            | 0.74                                  | 128.4                 | 10.34                      | NM                               |          |
| 10:10 | 26.85       | 160                   | 3.36                   | 15.8                      | 6.56               | 57134                                       | NM                            | 0.69                                  | 128.2                 | 10.65                      | NM                               |          |

|                                           |                            |                                                                                             |                     |
|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>MWA-31i(d)-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                          | 2 pump                     | ST<br> | 05/13/2025<br>17:23 |



# Low Flow Groundwater Sampling Field Data Form

Well ID: MWA-41  
Well Permit No:

Date: 2025/05/13  
Cool cloudy

|                                            |                                                                       |                                                             |
|--------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 37 (ft)         | <b>Reference Elevation</b><br>45.14 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                          | <b>Depth to Water / Free Product</b><br>31.41 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                         | <b>Total Well Depth</b><br>42.36 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>160 (mL/min)                             | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.4 (l) | <b>Well Construction</b>                                    |

## Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 08:50 | 31.45    | 160                |                  | 14.5                | 7.07            | 327.9                              | NM                      | 2.07                         | 48.4            | 10.03                | NM                         |          |
| 08:53 | 31.45    |                    |                  | 14.4                | 6.93            | 313.6                              | NM                      | 1.01                         | 54.8            | 7.67                 | NM                         |          |
| 08:56 | 31.45    |                    |                  | 14.6                | 6.89            | 307.7                              | NM                      | 0.67                         | 63.6            | 6.25                 | NM                         |          |
| 08:59 | 31.45    |                    |                  | 14.7                | 6.89            | 306.5                              | NM                      | 0.62                         | 65.5            | 6.15                 | NM                         |          |
| 09:02 | 31.45    | 160                | 2.4              | 14.7                | 6.88            | 305.3                              | NM                      | 0.57                         | 66.9            | 5.6                  | NM                         |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>MWA-41-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 2 pump                     | ST<br> | 05/13/2025<br>16:28 |



Low Flow Groundwater Sampling Field Data Form

Well ID: MWA-56D  
Well Permit No:

Date: 2025/05/14  
Cool cloudy

|                                     |                                                                 |                                                      |
|-------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 58 (ft)          | Reference Elevation<br>36.68 (ft)                    |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                           | Depth to Water / Free Product<br>24.76 (ft) / None   |
| Project Number<br>0773823           | Sample Equipment<br>NA                                          | Total Well Depth<br>60.05 (ft)                       |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>160 (mL/min)                              | Well Diameter / Well Screen Interval<br>(in) / - ( ) |
| Sampler<br>scott terranova          | Volume of Water in Well / Total Volume Purged<br>(l) / 2.88 (l) | Well Construction                                    |

Well Head Vapor Measurements  
PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 08:46 | 24.8        | 160                   |                        | 15.1                      | 6.77               | 31537                                       | NM                            | 3.6                                   | 75.4                  | 80.75                      | NM                               |          |
| 08:48 | 24.8        |                       |                        | 15.1                      | 6.65               | 35848                                       | NM                            | 1.76                                  | 80.2                  | 60.52                      | NM                               |          |
| 08:51 | 24.8        |                       |                        | 15.3                      | 6.64               | 37128                                       | NM                            | 1.14                                  | 82.8                  | 46.81                      | NM                               |          |
| 08:54 | 24.8        |                       |                        | 15.3                      | 6.63               | 37455                                       | NM                            | 0.92                                  | 83.6                  | 39.54                      | NM                               |          |
| 08:57 | 24.8        |                       |                        | 15.2                      | 6.63               | 37580                                       | NM                            | 0.81                                  | 84.3                  | 42.61                      | NM                               |          |
| 09:00 | 24.8        | 160                   | 2.88                   | 15.2                      | 6.63               | 37581                                       | NM                            | 0.74                                  | 84.7                  | 40.4                       | NM                               |          |

|                                 |                               |                                                                                                                           |                                  |
|---------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Sample ID(s):<br>MWA-56d-051425 | Additional Comments<br>2 pump | SAMPLER NAME AND SIGNATURE<br>ST<br> | Date Time<br>05/14/2025<br>16:20 |
| Analysis:                       |                               |                                                                                                                           |                                  |



Low Flow Groundwater Sampling Field Data Form

Well ID: MWA-58D  
Well Permit No:

Date: 2025/05/14  
Cool cloudy

|                                     |                                                                 |                                                      |
|-------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 58 (ft)          | Reference Elevation<br>37.97 (ft)                    |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                           | Depth to Water / Free Product<br>26.21 (ft) / None   |
| Project Number<br>0773823           | Sample Equipment<br>NA                                          | Total Well Depth<br>60.65 (ft)                       |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>160 (mL/min)                              | Well Diameter / Well Screen Interval<br>(in) / - ( ) |
| Sampler<br>scott terranova          | Volume of Water in Well / Total Volume Purged<br>(l) / 2.88 (l) | Well Construction                                    |

| Well Head Vapor Measurements<br>PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA |             |                       |                        |                           |                    |                                             |                               |                                       |                       |                            |                                  |          |
|---------------------------------------------------------------------------------------------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| Time                                                                                        | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
| 07:55                                                                                       | 26.4        | 160                   |                        | 14.8                      | 6.7                | 44243                                       | NM                            | 2.62                                  | 43.5                  | 10.66                      | NM                               |          |
| 07:58                                                                                       | 26.4        |                       |                        | 14.9                      | 6.67               | 47054                                       | NM                            | 1.08                                  | 44.2                  | 6.76                       | NM                               |          |
| 08:01                                                                                       | 26.4        |                       |                        | 15                        | 6.65               | 47673                                       | NM                            | 0.88                                  | 46                    | 4.96                       | NM                               |          |
| 08:04                                                                                       | 26.4        |                       |                        | 15                        | 6.65               | 47868                                       | NM                            | 0.73                                  | 47.9                  | 4.37                       | NM                               |          |
| 08:07                                                                                       | 26.4        |                       |                        | 14.9                      | 6.65               | 47987                                       | NM                            | 0.66                                  | 49.9                  | 3.74                       | NM                               |          |
| 08:10                                                                                       | 26.4        | 160                   | 2.88                   | 14.9                      | 6.65               | 48073                                       | NM                            | 0.62                                  | 51.5                  | 3.5                        | NM                               |          |

|                                               |                               |                                                                                                                           |                                  |
|-----------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Sample ID(s):<br>DUP-02-051425,MWA-58d-051425 | Additional Comments<br>2 pump | SAMPLER NAME AND SIGNATURE<br>ST<br> | Date Time<br>05/14/2025<br>15:28 |
| Analysis:                                     |                               |                                                                                                                           |                                  |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: MWA-81I**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 49 (ft)          | <b>Reference Elevation</b><br>44.62 (ft)                    |
| <b>Site Address</b><br>Portland, US-OR     | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>31.68 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>51.45 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>160 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.88 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 08:12 | 31.7     | 160                |                  | 14.6                | 7.26            | 397.2                              | NM                      | 2.28                         | 61.4            | 4.27                 | NM                         |          |
| 08:15 | 31.7     |                    |                  | 14.6                | 7.11            | 395.7                              | NM                      | 1.04                         | 49.7            | 2.8                  | NM                         |          |
| 08:18 | 31.7     |                    |                  | 14.8                | 7.05            | 404.3                              | NM                      | 0.84                         | 21.5            | 2.02                 | NM                         |          |
| 08:21 | 31.7     |                    |                  | 14.8                | 7.03            | 410.9                              | NM                      | 0.79                         | 2.2             | 1.77                 | NM                         |          |
| 08:24 | 31.7     |                    |                  | 14.8                | 7.02            | 420.4                              | NM                      | 0.8                          | -4.6            | 1.82                 | NM                         |          |
| 08:27 | 31.7     | 160                | 2.88             | 14.7                | 7.01            | 431.3                              | NM                      | 0.79                         | -7.3            | 1.68                 | NM                         |          |

|                                        |                                                                        |                                                                                                                                  |                                      |
|----------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Sample ID(s):</b><br>MWA-81i-051325 | <b>Additional Comments</b><br>2 pump, took RB-01-051325 before purging | <b>SAMPLER NAME AND SIGNATURE</b><br>ST<br> | <b>Date Time</b><br>05/13/2025 15:39 |
| <b>Analysis:</b>                       |                                                                        |                                                                                                                                  |                                      |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: MWA-82**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 27 (ft)          | <b>Reference Elevation</b><br>37.74 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>22.45 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>31.83 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>140 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.52 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 05:56 | 22.5        | 140                   |                        | 13.9                      | 9.83               | 977                                         | NM                            | 1.43                                  | 22                    | 26.47                      | NM                               |          |
| 05:59 | 22.5        |                       |                        | 13.9                      | 9.86               | 868                                         | NM                            | 0.85                                  | 21.9                  | 24.84                      | NM                               |          |
| 06:02 | 22.5        |                       |                        | 14                        | 9.92               | 695                                         | NM                            | 0.68                                  | 13                    | 22.9                       | NM                               |          |
| 06:05 | 22.5        |                       |                        | 13.9                      | 9.93               | 523                                         | NM                            | 0.64                                  | 10.7                  | 22.45                      | NM                               |          |
| 06:08 | 22.5        |                       |                        | 13.8                      | 9.95               | 488.9                                       | NM                            | 0.52                                  | 7.8                   | 22.64                      | NM                               |          |
| 06:11 | 22.5        | 140                   | 2.52                   | 13.9                      | 9.95               | 465.8                                       | NM                            | 0.47                                  | 6.4                   | 22.41                      | NM                               |          |

|                                       |                                      |                                                                                                                                  |                                         |
|---------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Sample ID(s):</b><br>MWA-82-051325 | <b>Additional Comments</b><br>2 pump | <b>SAMPLER NAME AND SIGNATURE</b><br>ST<br> | <b>Date Time</b><br>05/13/2025<br>13:21 |
| <b>Analysis:</b>                      |                                      |                                                                                                                                  |                                         |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-19D**  
**Well Permit No:**

**Date: 2025/05/14**  
**Cool cloudy**

|                                            |                                                                      |                                                             |
|--------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 47 (ft)        | <b>Reference Elevation</b><br>36.65 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                         | <b>Depth to Water / Free Product</b><br>25.7 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                        | <b>Total Well Depth</b><br>49.27 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>0 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 11 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 11:26 | 26.5        | 100                   | 0.5                    | 15                        | 7.25               | 3239                                        | NM                            | 0.97                                  | -80.5                 | 47.78                      | NM                               |          |
| 11:32 | 28.9        | 150                   | 1.4                    | 14.6                      | 7.29               | 3210                                        | NM                            | 0.65                                  | -93.6                 | 90.75                      | NM                               |          |
| 11:40 | 29.95       | 150                   | 2.6                    | 14.7                      | 7.31               | 3201                                        | NM                            | 0.35                                  | -94.4                 | 72.75                      | NM                               |          |
| 11:48 | 31.2        | 150                   | 3.8                    | 15.2                      | 7.31               | 3198                                        | NM                            | 0.26                                  | -89.6                 | 36.53                      | NM                               |          |
| 12:04 | 31.9        | 150                   | 6.2                    | 15.3                      | 7.29               | 3190                                        | NM                            | 0.18                                  | -86.9                 | 13.58                      | NM                               |          |
| 12:20 | 31.72       | 150                   | 8.6                    | 15.4                      | 7.29               | 3168                                        | NM                            | 0.24                                  | -86.7                 | 7.72                       | NM                               |          |
| 12:28 | 31.85       | 150                   | 9.8                    | 15                        | 7.29               | 3163                                        | NM                            | 0.27                                  | -86.2                 | 5.58                       | NM                               |          |
| 12:36 | 32.12       | 150                   | 11                     | 14.8                      | 7.29               | 3159                                        | NM                            | 0.32                                  | -83.6                 | 7.05                       | NM                               |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-19d-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/14/2025<br>19:49 |



Low Flow Groundwater Sampling Field Data Form

Well ID: PA-20D  
Well Permit No:

Date: 2025/05/14  
Cool cloudy

|                                     |                                                              |                                                      |
|-------------------------------------|--------------------------------------------------------------|------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 61 (ft)       | Reference Elevation<br>37.91 (ft)                    |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                        | Depth to Water / Free Product<br>25.7 (ft) / None    |
| Project Number<br>0773823           | Sample Equipment<br>NA                                       | Total Well Depth<br>63.98 (ft)                       |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>100 (mL/min)                           | Well Diameter / Well Screen Interval<br>(in) / - ( ) |
| Sampler<br>scott terranova          | Volume of Water in Well / Total Volume Purged<br>(l) / 2 (l) | Well Construction                                    |

| Well Head Vapor Measurements<br>PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA |             |                       |                        |                           |                    |                                             |                               |                                       |                       |                            |                                  |          |
|---------------------------------------------------------------------------------------------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| Time                                                                                        | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
| 07:03                                                                                       | 26          | 100                   |                        | 14.1                      | 6.95               | 2711                                        | NM                            | 2.2                                   | -99.1                 | 27.13                      | NM                               |          |
| 07:06                                                                                       | 26          |                       |                        | 14                        | 6.9                | 2324                                        | NM                            | 1.4                                   | -105.8                | 23.03                      | NM                               |          |
| 07:09                                                                                       | 26          |                       |                        | 14                        | 6.88               | 2320                                        | NM                            | 1.14                                  | -112.4                | 23.92                      | NM                               |          |
| 07:12                                                                                       | 26          |                       |                        | 14                        | 6.87               | 2207                                        | NM                            | 0.91                                  | -113.6                | 23.62                      | NM                               |          |
| 07:15                                                                                       | 26          |                       |                        | 14.1                      | 6.87               | 2122                                        | NM                            | 0.83                                  | -115                  | 22.85                      | NM                               |          |
| 07:18                                                                                       | 26          | 100                   | 2                      | 14.1                      | 6.87               | 2149                                        | NM                            | 0.78                                  | -114.9                | 23.25                      | NM                               |          |

|                                |                                                                 |                                                                                                                           |                                  |
|--------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Sample ID(s):<br>PA-20d-051425 | Additional Comments<br>1 pump, took RB-02-051425 before purging | SAMPLER NAME AND SIGNATURE<br>ST<br> | Date Time<br>05/14/2025<br>14:32 |
| Analysis:                      |                                                                 |                                                                                                                           |                                  |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-21D**  
**Well Permit No:**

**Date: 2025/05/14**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 53.5 (ft)        | <b>Reference Elevation</b><br>34.36 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>23.3 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>56.67 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>100 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 5.78 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 09:46 | 24.1        | 100                   | 0.5                    | 15                        | 6.42               | 5253                                        | NM                            | 1.67                                  | -34.8                 | 21.86                      | NM                               |          |
| 09:54 | 25.9        | 100                   | 1.3                    | 14.9                      | 6.28               | 4193                                        | NM                            | 0.8                                   | -31.1                 | 17.86                      | NM                               |          |
| 10:00 | 27.2        | 160                   | 2.26                   | 14.8                      | 6.24               | 4102                                        | NM                            | 0.81                                  | -36.1                 | 47.32                      | NM                               |          |
| 10:06 | 29.5        | 160                   | 3.22                   | 14.9                      | 6.5                | 4051                                        | NM                            | 0.55                                  | -38.4                 | 53.95                      | NM                               |          |
| 10:12 | 30.57       | 160                   | 4.18                   | 14.9                      | 6.24               | 4019                                        | NM                            | 0.47                                  | -39.9                 | 63.98                      | NM                               |          |
| 10:17 | 31.1        | 160                   | 4.98                   | 14.9                      | 6.24               | 3981                                        | NM                            | 0.39                                  | -40.1                 | 69.52                      | NM                               |          |
| 10:22 | 31.85       | 160                   | 5.78                   | 15                        | 6.24               | 3916                                        | NM                            | 0.35                                  | -40.6                 | 54.82                      | NM                               |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-21d-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/14/2025<br>17:43 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-22D**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cool cloudy**

|                                            |                                                                       |                                                             |
|--------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 60 (ft)         | <b>Reference Elevation</b><br>38.75 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                          | <b>Depth to Water / Free Product</b><br>25.7 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                         | <b>Total Well Depth</b><br>63.68 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>100 (mL/min)                             | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 1.8 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 11:14 | 26.05       | 100                   |                        | 16.4                      | 7.18               | 10634                                       | NM                            | 2.14                                  | 111.2                 | 8.69                       | NM                               |          |
| 11:17 | 26.05       |                       |                        | 16.3                      | 7.16               | 12445                                       | NM                            | 1.44                                  | 110.4                 | 8.87                       | NM                               |          |
| 11:20 | 26.05       |                       |                        | 16.1                      | 7.15               | 14264                                       | NM                            | 1.08                                  | 110.6                 | 9.63                       | NM                               |          |
| 11:23 | 26.05       |                       |                        | 16.1                      | 7.14               | 14578                                       | NM                            | 0.84                                  | 110.7                 | 10.42                      | NM                               |          |
| 11:26 | 26.05       |                       |                        | 16.1                      | 7.15               | 15265                                       | NM                            | 0.79                                  | 110.7                 | 10.06                      | NM                               |          |
| 11:29 | 26.05       | 100                   | 1.8                    | 16.1                      | 7.15               | 15598                                       | NM                            | 0.71                                  | 110.5                 | 10.29                      | NM                               |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-22d-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/13/2025<br>18:44 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-24D**  
**Well Permit No:**

**Date: 2025/05/12**  
**Cool cloudy**

|                                            |                                                                       |                                                             |
|--------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 81 (ft)         | <b>Reference Elevation</b><br>39.06 (ft)                    |
| <b>Site Address</b><br>Portland, US-OR     | <b>Purge Equipment</b><br>NA                                          | <b>Depth to Water / Free Product</b><br>28.45 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                         | <b>Total Well Depth</b><br>84.87 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>100 (mL/min)                             | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.4 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 11:29 | 29.15    | 100                |                  | 14.4                | 6.55            | 66196                              | NM                      | 2.42                         | -73.4           | 17.03                | NM                         |          |
| 11:32 | 29.2     |                    |                  | 14.2                | 6.61            | 67399                              | NM                      | 1.53                         | -81.8           | 15.4                 | NM                         |          |
| 11:35 | 29.24    |                    |                  | 14                  | 6.63            | 68308                              | NM                      | 1.05                         | -84.7           | 16.42                | NM                         |          |
| 11:38 | 29.24    |                    |                  | 13.8                | 6.67            | 68375                              | NM                      | 0.91                         | -91.9           | 15.63                | NM                         |          |
| 11:41 | 29.25    |                    |                  | 13.8                | 6.7             | 68622                              | NM                      | 0.85                         | -92.7           | 17.64                | NM                         |          |
| 11:44 | 29.25    |                    |                  | 13.8                | 6.71            | 68900                              | NM                      | 0.73                         | -95.5           | 16.29                | NM                         |          |
| 11:47 | 29.25    | 100                | 2.4              | 13.9                | 6.72            | 69035                              | NM                      | 0.69                         | -96.1           | 16.8                 | NM                         |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-24d-051225 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/12/2025<br>19:07 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-25D**  
**Well Permit No:**

**Date: 2025/05/12**  
**Cool pt cloudy**

|                                            |                                                                     |                                                             |
|--------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 82 (ft)       | <b>Reference Elevation</b><br>40.44 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                        | <b>Depth to Water / Free Product</b><br>27.7 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                       | <b>Total Well Depth</b><br>85.07 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>100 (mL/min)                           | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 3 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 10:11 | 28.5     | 100                |                  | 15.5                | 6.81            | 631                                | NM                      | 4.23                         | -46.3           | 16.09                | NM                         |          |
| 10:14 | 28.65    |                    |                  | 15.5                | 6.84            | 634                                | NM                      | 2.2                          | -72.8           | 17.52                | NM                         |          |
| 10:17 | 28.7     |                    |                  | 15.4                | 6.87            | 634                                | NM                      | 3.03                         | -67.1           | 15.86                | NM                         |          |
| 10:20 | 28.8     |                    |                  | 15.2                | 6.9             | 639                                | NM                      | 1.94                         | -83.9           | 14.64                | NM                         |          |
| 10:23 | 28.8     |                    |                  | 15.3                | 6.92            | 649                                | NM                      | 1.42                         | -93.9           | 10.95                | NM                         |          |
| 10:26 | 28.8     |                    |                  | 15.2                | 6.95            | 660                                | NM                      | 1.06                         | -105.5          | 9.32                 | NM                         |          |
| 10:29 | 28.8     |                    |                  | 15.1                | 6.98            | 667                                | NM                      | 0.97                         | -111.9          | 7.78                 | NM                         |          |
| 10:32 | 28.8     |                    |                  | 15                  | 7               | 670                                | NM                      | 0.8                          | -115.7          | 7.45                 | NM                         |          |
| 10:35 | 28.8     | 100                | 3                | 14.9                | 7               | 670                                | NM                      | 0.84                         | -119.9          | 7.34                 | NM                         |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-25d-051225 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/12/2025<br>19:10 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-30D**  
**Well Permit No:**

**Date: 2025/05/15**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 48 (ft)          | <b>Reference Elevation</b><br>37.34 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>25.75 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>53.23 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>120 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.52 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 06:25 | 25.9     | 120                |                  | 14.4                | 7.98            | 2948                               | NM                      | 1.46                         | 16.6            | 39.72                | NM                         |          |
| 06:28 | 25.9     |                    |                  | 14.6                | 8.13            | 2589                               | NM                      | 0.61                         | -76.9           | 32.22                | NM                         |          |
| 06:31 | 25.9     |                    |                  | 14.8                | 8.13            | 2507                               | NM                      | 0.35                         | -138.9          | 39.71                | NM                         |          |
| 06:34 | 25.9     |                    |                  | 14.6                | 8.25            | 2705                               | NM                      | 0.3                          | -164.9          | 60.52                | NM                         |          |
| 06:37 | 25.9     |                    |                  | 14.6                | 8.3             | 2780                               | NM                      | 0.34                         | -166.8          | 86.73                | NM                         |          |
| 06:40 | 25.9     |                    |                  | 14.6                | 8.31            | 2799                               | NM                      | 0.29                         | -167.8          | 85.14                | NM                         |          |
| 06:43 | 25.9     | 120                | 2.52             | 14.6                | 8.32            | 2812                               | NM                      | 0.32                         | -168.5          | 88.52                | NM                         |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-30d-051525 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/15/2025<br>13:58 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-15I**  
**Well Permit No:**

**Date: 2025/05/12**  
**Cool cloudy**

|                                            |                                                                       |                                                             |
|--------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 44 (ft)         | <b>Reference Elevation</b><br>40.62 (ft)                    |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                          | <b>Depth to Water / Free Product</b><br>27.95 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                         | <b>Total Well Depth</b><br>47.58 (ft)                       |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>100 (mL/min)                             | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 1.8 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10% | Total<br>Conductivity<br>(NA) | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(NA) | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|---------------------------------------------|-------------------------------|---------------------------------------|-----------------------|----------------------------|----------------------------------|----------|
| 09:18 | 28.1        | 100                   |                        | 14.7                      | 6.93               | 649                                         | NM                            | 1.73                                  | 57.3                  | 99.85                      | NM                               |          |
| 09:21 | 28.1        |                       |                        | 14.8                      | 7.15               | 616                                         | NM                            | 0.93                                  | -37.8                 | 97.43                      | NM                               |          |
| 09:24 | 28.1        |                       |                        | 15.1                      | 7.19               | 613                                         | NM                            | 0.75                                  | -43.6                 | 96.53                      | NM                               |          |
| 09:27 | 28.1        |                       |                        | 15.1                      | 7.21               | 618                                         | NM                            | 0.69                                  | -49.7                 | 95.74                      | NM                               |          |
| 09:30 | 28.1        |                       |                        | 15.5                      | 7.25               | 621                                         | NM                            | 0.62                                  | -55.9                 | 97.61                      | NM                               |          |
| 09:33 | 28.1        | 100                   | 1.8                    | 15.1                      | 7.29               | 623                                         | NM                            | 0.6                                   | -58.2                 | 93.84                      | NM                               |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-15i-051225 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 1 pump                     | ST<br> | 05/12/2025<br>19:09 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-44I**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cool cloudy**

|                                            |                                                                        |                                                             |
|--------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 45 (ft)          | <b>Reference Elevation</b><br>40.36 (ft)                    |
| <b>Site Address</b><br>Portland, US-OR     | <b>Purge Equipment</b><br>NA                                           | <b>Depth to Water / Free Product</b><br>27.51 (ft) / None   |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                          | <b>Total Well Depth</b><br>47.7 (ft)                        |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>140 (mL/min)                              | <b>Well Diameter / Well Screen Interval</b><br>(in) / - ( ) |
| <b>Sampler</b><br>scott terranova          | <b>Volume of Water in Well / Total Volume Purged</b><br>(l) / 2.94 (l) | <b>Well Construction</b>                                    |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10% | Total Conductivity (NA) | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(NA) | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|------------------------------------|-------------------------|------------------------------|-----------------|----------------------|----------------------------|----------|
| 07:07 | 27.53    | 140                |                  | 14.3                | 7.53            | 1021                               | NM                      | 2.23                         | 37.1            | 48.05                | NM                         |          |
| 07:10 | 27.53    |                    |                  | 14.4                | 7.37            | 973                                | NM                      | 1.21                         | -5.7            | 48.19                | NM                         |          |
| 07:13 | 27.53    |                    |                  | 14.5                | 7.32            | 955                                | NM                      | 0.96                         | -18.7           | 47.73                | NM                         |          |
| 07:16 | 27.53    |                    |                  | 14.4                | 7.3             | 927                                | NM                      | 0.82                         | -20.9           | 47.4                 | NM                         |          |
| 07:19 | 27.53    |                    |                  | 14.3                | 7.29            | 913                                | NM                      | 0.69                         | -22.3           | 47.03                | NM                         |          |
| 07:22 | 27.53    |                    |                  | 14.3                | 7.28            | 887                                | NM                      | 0.6                          | -24.5           | 45.93                | NM                         |          |
| 07:25 | 27.53    | 140                | 2.94             | 14.4                | 7.27            | 880                                | NM                      | 0.55                         | -25.5           | 46.83                | NM                         |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-44i-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      | 2 pump                     | ST<br> | 05/13/2025<br>14:36 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: MWA-11I(D)**  
**Well Permit No:**

**Date: 2025/05/14**  
**Cloudy**

|                                            |                                                                             |                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 48 (ft)               | <b>Reference Elevation</b><br>36.49 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                                | <b>Depth to Water / Free Product</b><br>24.16 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                               | <b>Total Well Depth</b><br>49.93 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                   | <b>Well Diameter / Well Screen Interval</b><br>2 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>15.92 (l) / 4.8 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10 % | Total Conductivity (uS/cm) ±3% | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(ppm) ±10% | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|-------------------------------------|--------------------------------|------------------------------|-----------------|----------------------|----------------------------------|----------|
| 13:41 | 24.51    | 200                | 0.6              | 16.2                | 9.59            | 310.4                               | NM                             | 3.63                         | -77.4           | 5.51                 | NM                               |          |
| 13:44 | 24.51    | 200                | 1.2              | 16.1                | 9.72            | 338.6                               | NM                             | 2.59                         | -83.6           | 5.05                 | NM                               |          |
| 13:47 | 24.5     | 200                | 1.8              | 15.9                | 9.72            | 448                                 | NM                             | 2.07                         | -84             | 5                    | NM                               |          |
| 13:50 | 24.49    | 200                | 2.4              | 15.9                | 8.33            | 2251                                | NM                             | 1.83                         | -59             | 2.79                 | NM                               |          |
| 13:53 | 24.5     | 200                | 3                | 16.1                | 7.19            | 3050                                | NM                             | 1.57                         | -69.4           | 2.29                 | NM                               |          |
| 13:56 | 24.5     | 200                | 3.6              | 16.1                | 6.98            | 3110                                | NM                             | 1.47                         | -72.4           | 2.26                 | NM                               |          |
| 13:59 | 24.51    | 200                | 4.2              | 16.5                | 6.88            | 3109                                | NM                             | 1.37                         | -73.7           | 2.16                 | NM                               |          |
| 14:02 | 24.51    | 200                | 4.8              | 16.4                | 6.82            | 3142                                | NM                             | 1.26                         | -73.4           | 2.14                 | NM                               |          |

|                                           |                            |                                   |                                                                                       |                     |
|-------------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>MWA-11i(d)-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                          |                            | FP                                |  | 05/14/2025<br>21:24 |



Low Flow Groundwater Sampling Field Data Form

Well ID: MWA-63  
Well Permit No:

Date: 2025/05/14  
Overcast

|                                     |                                                                     |                                                        |
|-------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 25 (ft)              | Reference Elevation<br>36.29 (ft)                      |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                               | Depth to Water / Free Product<br>22.61 (ft) / None     |
| Project Number<br>0773823           | Sample Equipment<br>NA                                              | Total Well Depth<br>29.78 (ft)                         |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>150 (mL/min)                                  | Well Diameter / Well Screen Interval<br>2 (in) / - ( ) |
| Sampler<br>faye parish              | Volume of Water in Well / Total Volume Purged<br>1.17 (l) / 3.6 (l) | Well Construction                                      |

| Well Head Vapor Measurements<br>PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA |          |                    |                  |                     |                 |                                     |                                |                              |                 |                      |                                  |          |
|---------------------------------------------------------------------------------------------|----------|--------------------|------------------|---------------------|-----------------|-------------------------------------|--------------------------------|------------------------------|-----------------|----------------------|----------------------------------|----------|
| Time                                                                                        | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10 % | Total Conductivity (uS/cm) ±3% | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(ppm) ±10% | Comments |
| 10:11                                                                                       | 23.91    | 150                | 0.45             | 15.8                | 7.34            | 572                                 | NM                             | 8.13                         | 2.6             | 49.08                | NM                               |          |
| 10:14                                                                                       | 23.82    | 150                | 0.9              | 15.6                | 7.19            | 569                                 | NM                             | 8.16                         | 16              | 42.08                | NM                               |          |
| 10:17                                                                                       | 23.83    | 150                | 1.35             | 15.3                | 7.15            | 567                                 | NM                             | 8.25                         | 24.6            | 33.21                | NM                               |          |
| 10:20                                                                                       | 23.81    | 150                | 1.8              | 15.2                | 7.12            | 565                                 | NM                             | 8.35                         | 31.3            | 28.7                 | NM                               |          |
| 10:23                                                                                       | 23.8     | 150                | 2.25             | 15.1                | 7.11            | 565                                 | NM                             | 8.48                         | 36.2            | 25.31                | NM                               |          |
| 10:26                                                                                       | 23.81    | 150                | 2.7              | 15.1                | 7.12            | 565                                 | NM                             | 8.86                         | 41.9            | 19.69                | NM                               |          |
| 10:29                                                                                       | 23.8     | 150                | 3.15             | 15.1                | 7.17            | 563                                 | NM                             | 9.08                         | 43.5            | 19.98                | NM                               |          |
| 10:32                                                                                       | 23.81    | 150                | 3.6              | 15.1                | 7.19            | 563                                 | NM                             | 9.23                         | 44.3            | 19.31                | NM                               |          |

|                                |                     |                                                                                             |                     |
|--------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------------|
| Sample ID(s):<br>MWA-63-051425 | Additional Comments | SAMPLER NAME AND SIGNATURE                                                                  | Date Time           |
| Analysis:                      |                     |                                                                                             |                     |
|                                |                     | FP<br> | 05/14/2025<br>17:53 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-32I**  
**Well Permit No:**

**Date: 2025/05/14**  
**Cloudy**

|                                            |                                                                             |                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 37 (ft)               | <b>Reference Elevation</b><br>36.28 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                                | <b>Depth to Water / Free Product</b><br>22.22 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                               | <b>Total Well Depth</b><br>40.6 (ft)                          |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                   | <b>Well Diameter / Well Screen Interval</b><br>2 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>11.35 (l) / 5.4 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 12:19 | 22.26       | 200                   | 0.6                    | 16.3                      | 8.06               | 638                                          | NM                                      | 4.99                                  | -2.9                  | 19.11                      | NM                                        |          |
| 12:22 | 22.26       | 200                   | 1.2                    | 16.4                      | 7.73               | 1002                                         | NM                                      | 3.17                                  | -8.3                  | 14.5                       | NM                                        |          |
| 12:25 | 22.26       | 200                   | 1.8                    | 16.8                      | 7.65               | 1099                                         | NM                                      | 2.08                                  | -24.3                 | 13.32                      | NM                                        |          |
| 12:28 | 22.26       | 200                   | 2.4                    | 17.1                      | 7.6                | 1160                                         | NM                                      | 1.63                                  | -36.9                 | 12.57                      | NM                                        |          |
| 12:31 | 22.25       | 200                   | 3                      | 17.2                      | 7.59               | 1175                                         | NM                                      | 1.53                                  | -41.3                 | 12.68                      | NM                                        |          |
| 12:34 | 22.25       | 200                   | 3.6                    | 17.3                      | 7.57               | 1182                                         | NM                                      | 1.31                                  | -52.7                 | 12.45                      | NM                                        |          |
| 12:37 | 22.25       | 200                   | 4.2                    | 17.4                      | 7.57               | 1189                                         | NM                                      | 1.21                                  | -58.9                 | 12.26                      | NM                                        |          |
| 12:40 | 22.26       | 200                   | 4.8                    | 17.4                      | 7.54               | 1198                                         | NM                                      | 1.1                                   | -66.7                 | 12.01                      | NM                                        |          |
| 12:43 | 22.26       | 200                   | 5.4                    | 17.4                      | 7.53               | 1203                                         | NM                                      | 1.06                                  | -68.7                 | 12.03                      | NM                                        |          |

|                                       |                            |                                   |                                                                                       |                                             |
|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Sample ID(s):</b><br>PA-32i-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b><br><br>05/14/2025<br>20:11 |
| <b>Analysis:</b>                      |                            | FP                                |  |                                             |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-08**  
**Well Permit No:**

**Date: 2025/05/12**  
**Overcast**

|                                            |                                                                             |                                                              |
|--------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 28.5 (ft)             | <b>Reference Elevation</b><br>40.47 (ft)                     |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                                | <b>Depth to Water / Free Product</b><br>26.62 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                               | <b>Total Well Depth</b><br>33.98 (ft)                        |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>150 (mL/min)                                   | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - () |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>1.14 (l) / 3.15 (l) | <b>Well Construction</b>                                     |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 08:15 | 26.62       | 150                   | 0.45                   | 13.9                      | 7.44               | 1601                                         | NM                                      | 3.44                                  | -15                   | 44.92                      | NM                                        |          |
| 08:18 | 26.65       | 150                   | 0.9                    | 13.9                      | 7.29               | 1660                                         | NM                                      | 2.05                                  | -3.3                  | 46.52                      | NM                                        |          |
| 08:21 | 26.62       | 150                   | 1.35                   | 13.8                      | 7.23               | 1646                                         | NM                                      | 1.42                                  | 2.9                   | 45.62                      | NM                                        |          |
| 08:24 | 26.64       | 150                   | 1.8                    | 13.8                      | 7.22               | 1634                                         | NM                                      | 1.32                                  | 4.2                   | 45.83                      | NM                                        |          |
| 08:27 | 26.64       | 150                   | 2.25                   | 13.8                      | 7.21               | 1605                                         | NM                                      | 1.18                                  | 5.2                   | 44.73                      | NM                                        |          |
| 08:30 | 26.63       | 150                   | 2.7                    | 13.8                      | 7.22               | 1572                                         | NM                                      | 1.09                                  | 5.5                   | 43.73                      | NM                                        |          |
| 08:33 | 26.65       | 150                   | 3.15                   | 13.8                      | 7.23               | 1517                                         | NM                                      | 0.98                                  | 5.5                   | 42.3                       | NM                                        |          |

|                                        |                                                                         |                                                                                                                               |                                         |
|----------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Sample ID(s):</b><br>PA-08-05122025 | <b>Additional Comments</b><br>DO stable, last 3 readings within +/- 0.2 | <b>SAMPLER NAME AND SIGNATURE</b><br>FP  | <b>Date Time</b><br>05/12/2025<br>16:16 |
| <b>Analysis:</b>                       |                                                                         |                                                                                                                               |                                         |



Low Flow Groundwater Sampling Field Data Form

Well ID: PA-09  
Well Permit No:

Date: 2025/05/12  
Cloudy

|                                     |                                                                     |                                                        |
|-------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 29 (ft)              | Reference Elevation<br>40.24 (ft)                      |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                               | Depth to Water / Free Product<br>27.11 (ft) / None     |
| Project Number<br>0773823           | Sample Equipment<br>NA                                              | Total Well Depth<br>32.95 (ft)                         |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>150 (mL/min)                                  | Well Diameter / Well Screen Interval<br>1 (in) / - ( ) |
| Sampler<br>faye parish              | Volume of Water in Well / Total Volume Purged<br>0.9 (l) / 3.15 (l) | Well Construction                                      |

| Well Head Vapor Measurements<br>PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA |          |                    |                  |                     |                 |                                     |                                |                              |                 |                      |                                  |          |
|---------------------------------------------------------------------------------------------|----------|--------------------|------------------|---------------------|-----------------|-------------------------------------|--------------------------------|------------------------------|-----------------|----------------------|----------------------------------|----------|
| Time                                                                                        | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10 % | Total Conductivity (uS/cm) ±3% | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(ppm) ±10% | Comments |
| 09:34                                                                                       | 27.15    | 150                | 0.45             | 15.3                | 7.39            | 478.9                               | NM                             | 3.75                         | 0.5             | 110.93               | NM                               |          |
| 09:37                                                                                       | 27.16    | 150                | 0.9              | 15                  | 6.96            | 499.2                               | NM                             | 2.13                         | 3.4             | 131.74               | NM                               |          |
| 09:40                                                                                       | 27.18    | 150                | 1.35             | 14.9                | 6.75            | 522                                 | NM                             | 1.47                         | -8.7            | 146.46               | NM                               |          |
| 09:43                                                                                       | 27.17    | 150                | 1.8              | 14.8                | 6.68            | 525                                 | NM                             | 1.21                         | -17.2           | 141.77               | NM                               |          |
| 09:46                                                                                       | 27.17    | 150                | 2.25             | 15.4                | 6.65            | 530                                 | NM                             | 1.04                         | 24.7            | 131.59               | NM                               |          |
| 09:49                                                                                       | 27.15    | 150                | 2.7              | 15.5                | 6.64            | 533                                 | NM                             | 0.96                         | 28.4            | 123.84               | NM                               |          |
| 09:51                                                                                       | 27.15    | 150                | 3.15             | 15.7                | 6.63            | 535                                 | NM                             | 0.87                         | 32.8            | 115.47               | NM                               |          |

|                               |                     |                                                                                             |                     |
|-------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------------|
| Sample ID(s):<br>PA-09-051225 | Additional Comments | SAMPLER NAME AND SIGNATURE                                                                  | Date Time           |
| Analysis:                     |                     |                                                                                             |                     |
|                               |                     | FP<br> | 05/12/2025<br>17:03 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-10I**  
**Well Permit No:**

**Date: 2025/05/14**  
**Overcast**

|                                            |                                                                          |                                                              |
|--------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 34.5 (ft)          | <b>Reference Elevation</b><br>36.67 (ft)                     |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                             | <b>Depth to Water / Free Product</b><br>22.39 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                            | <b>Total Well Depth</b><br>36.3 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - () |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>2.15 (l) / 6 (l) | <b>Well Construction</b>                                     |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 06:57 | 22.51       | 200                   | 0.6                    | 13.9                      | 7.35               | 841                                          | NM                                      | 3.8                                   | 72.3                  | 13.02                      | NM                                        |          |
| 07:00 | 22.5        | 200                   | 1.2                    | 13.9                      | 7.43               | 841                                          | NM                                      | 2.7                                   | 51.2                  | 6.68                       | NM                                        |          |
| 07:03 | 22.49       | 200                   | 1.8                    | 13.9                      | 7.64               | 841                                          | NM                                      | 2.08                                  | 24.2                  | 5.11                       | NM                                        |          |
| 07:06 | 22.48       | 200                   | 2.4                    | 13.9                      | 7.47               | 842                                          | NM                                      | 1.72                                  | 0.3                   | 5.48                       | NM                                        |          |
| 07:09 | 22.39       | 200                   | 3                      | 13.8                      | 7.46               | 843                                          | NM                                      | 1.55                                  | -14.9                 | 5.42                       | NM                                        |          |
| 07:12 | 22.38       | 200                   | 3.6                    | 13.5                      | 7.46               | 843                                          | NM                                      | 1.42                                  | -27.9                 | 5.86                       | NM                                        |          |
| 07:15 | 22.36       | 200                   | 4.2                    | 13.5                      | 7.46               | 841                                          | NM                                      | 1.32                                  | -36.3                 | 5.22                       | NM                                        |          |
| 07:18 | 22.37       | 200                   | 4.8                    | 13.5                      | 7.46               | 840                                          | NM                                      | 1.26                                  | -41.7                 | 4.56                       | NM                                        |          |
| 07:21 | 22.36       | 200                   | 5.4                    | 13.5                      | 7.46               | 840                                          | NM                                      | 1.2                                   | -44.1                 | 4.2                        | NM                                        |          |
| 07:24 | 22.37       | 200                   | 6                      | 13.5                      | 7.47               | 839                                          | NM                                      | 1.13                                  | -42.1                 | 4.08                       | NM                                        |          |

|                                       |                            |                                   |                                                                                       |                     |
|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-10i-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                      |                            | FP                                |  | 05/14/2025<br>14:44 |



Low Flow Groundwater Sampling Field Data Form

Well ID: PA-16I  
Well Permit No:

Date: 2025/05/12  
Cloudy

|                                     |                                                                     |                                                        |
|-------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| Site ID<br>ARKEMA-PORTLAND          | Purge Method / Pump Intake Depth<br>Low Flow / 42.5 (ft)            | Reference Elevation<br>40.3 (ft)                       |
| Site Address<br>, Portland, US-OR   | Purge Equipment<br>NA                                               | Depth to Water / Free Product<br>27.79 (ft) / None     |
| Project Number<br>0773823           | Sample Equipment<br>NA                                              | Total Well Depth<br>45.44 (ft)                         |
| Project Name<br>202505012-GWMonitor | Average Purge Rate<br>150 (mL/min)                                  | Well Diameter / Well Screen Interval<br>1 (in) / - ( ) |
| Sampler<br>faye parish              | Volume of Water in Well / Total Volume Purged<br>2.73 (l) / 2.7 (l) | Well Construction                                      |

| Well Head Vapor Measurements<br>PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA |          |                    |                  |                     |                 |                                     |                                |                              |                 |                      |                                  |          |
|---------------------------------------------------------------------------------------------|----------|--------------------|------------------|---------------------|-----------------|-------------------------------------|--------------------------------|------------------------------|-----------------|----------------------|----------------------------------|----------|
| Time                                                                                        | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10 % | Total Conductivity (uS/cm) ±3% | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(ppm) ±10% | Comments |
| 10:50                                                                                       | 27.88    | 150                | 0.45             | 15.3                | 6.8             | 315.9                               | NM                             | 2.33                         | -28.2           | 187.53               | NM                               |          |
| 10:53                                                                                       | 27.83    | 150                | 0.9              | 15.2                | 6.82            | 330.92                              | NM                             | 1.72                         | -42.1           | 211.22               | NM                               |          |
| 10:56                                                                                       | 27.85    | 150                | 1.35             | 15.1                | 6.84            | 338.3                               | NM                             | 1.63                         | -45.2           | 217.14               | NM                               |          |
| 10:59                                                                                       | 27.78    | 150                | 1.8              | 15                  | 6.88            | 356.9                               | NM                             | 1.31                         | -54.9           | 215.18               | NM                               |          |
| 11:02                                                                                       | 27.81    | 150                | 2.25             | 15                  | 6.95            | 370.7                               | NM                             | 1.23                         | -61.3           | 197.94               | NM                               |          |
| 11:05                                                                                       | 27.83    | 150                | 2.7              | 15                  | 6.96            | 377.1                               | NM                             | 1.18                         | -63.6           | 186.8                | NM                               |          |

|                                |                     |                                                                                             |                     |
|--------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------------|
| Sample ID(s):<br>PA-16i-051225 | Additional Comments | SAMPLER NAME AND SIGNATURE                                                                  | Date Time           |
| Analysis:                      |                     |                                                                                             |                     |
|                                |                     | FP<br> | 05/12/2025<br>19:49 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-18D**  
**Well Permit No:**

**Date: 2025/05/14**  
**Overcast**

|                                            |                                                                            |                                                              |
|--------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 42.5 (ft)            | <b>Reference Elevation</b><br>36.55 (ft)                     |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>24.14 (ft) / None    |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>43.1 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - () |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>2.93 (l) / 6.6 (l) | <b>Well Construction</b>                                     |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 08:10 | 27.69       | 200                   | 0.6                    | 15.2                      | 8.44               | 1156                                         | NM                                      | 4.08                                  | -11.4                 | 15.44                      | NM                                        |          |
| 08:13 | 27.75       | 200                   | 1.2                    | 15.3                      | 8.59               | 1159                                         | NM                                      | 2.57                                  | -29.3                 | 30.79                      | NM                                        |          |
| 08:16 | 27.68       | 200                   | 1.8                    | 15.4                      | 8.66               | 1161                                         | NM                                      | 2                                     | -42.9                 | 41.46                      | NM                                        |          |
| 08:19 | 27.61       | 200                   | 2.4                    | 15.2                      | 8.72               | 1158                                         | NM                                      | 1.67                                  | -54                   | 41.54                      | NM                                        |          |
| 08:22 | 27.6        | 200                   | 3                      | 15                        | 8.75               | 1154                                         | NM                                      | 1.49                                  | -62.2                 | 54.48                      | NM                                        |          |
| 08:25 | 27.35       | 200                   | 3.6                    | 14.8                      | 8.8                | 1150                                         | NM                                      | 1.29                                  | -74.2                 | 138.03                     | NM                                        |          |
| 08:28 | 27.35       | 200                   | 4.2                    | 14.8                      | 8.81               | 1146                                         | NM                                      | 1.24                                  | -77.3                 | 135.56                     | NM                                        |          |
| 08:31 | 27.35       | 200                   | 5.4                    | 14.9                      | 8.83               | 1145                                         | NM                                      | 1.13                                  | -86.5                 | 133.71                     | NM                                        |          |
| 08:34 | 27.35       | 200                   | 6                      | 15.2                      | 8.83               | 1140                                         | NM                                      | 1.05                                  | -93.3                 | 126.4                      | NM                                        |          |
| 08:37 | 27.35       | 200                   | 6.6                    | 15.2                      | 8.83               | 1145                                         | NM                                      | 1                                     | -89.7                 | 125.9                      | NM                                        |          |

|                                       |                            |                                   |                                                                                       |                                             |
|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Sample ID(s):</b><br>PA-18d-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b><br><br>05/14/2025<br>16:03 |
| <b>Analysis:</b>                      |                            | FP                                |  |                                             |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-27D**  
**Well Permit No:**

**Date: 2025/05/13**  
**Overcast**

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 46.5 (ft)            | <b>Reference Elevation</b><br>37.1 (ft)                       |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>24.14 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>47.01 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>0.93 (l) / 5.4 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 12:28 | 26.1        | 200                   | 0.6                    | 16.4                      | 7.45               | 2953                                         | NM                                      | 2.83                                  | -91.6                 | 12.42                      | NM                                        |          |
| 12:31 | 26.01       | 200                   | 1.2                    | 16.4                      | 7.39               | 2951                                         | NM                                      | 2.51                                  | -90.7                 | 11.24                      | NM                                        |          |
| 12:35 | 25.9        | 200                   | 1.8                    | 16.1                      | 7.29               | 2965                                         | NM                                      | 2.02                                  | -86                   | 9.17                       | NM                                        |          |
| 12:38 | 25.81       | 200                   | 3                      | 16.1                      | 7.26               | 2968                                         | NM                                      | 1.76                                  | -81.1                 | 8.36                       | NM                                        |          |
| 12:41 | 25.69       | 200                   | 3.6                    | 16.2                      | 7.22               | 2975                                         | NM                                      | 1.38                                  | -75.2                 | 6.69                       | NM                                        |          |
| 12:44 | 25.6        | 200                   | 4.2                    | 16.2                      | 7.2                | 2981                                         | NM                                      | 1.24                                  | -72                   | 6.87                       | NM                                        |          |
| 12:48 | 25.58       | 200                   | 4.8                    | 16.3                      | 7.16               | 2991                                         | NM                                      | 1.15                                  | -68.8                 | 7.3                        | NM                                        |          |
| 12:51 | 25.61       | 200                   | 5.4                    | 16.4                      | 7.15               | 2991                                         | NM                                      | 1.12                                  | -67                   | 7.67                       | NM                                        |          |

|                                       |                            |                                   |                                                                                       |                     |
|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-27d-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                      |                            | FP                                |  | 05/13/2025<br>20:10 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-31**  
**Well Permit No:**

**Date: 2025/05/14**  
**Cloudy**

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 23 (ft)              | <b>Reference Elevation</b><br>36.25 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>9.17 (ft) / None      |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>24.76 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>197 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>2 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>2.54 (l) / 5.4 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 11:17 | 9.7         | 200                   | 0.6                    | 15                        | 9.49               | 611                                          | NM                                      | 3.52                                  | -37.4                 | 12.13                      | NM                                        |          |
| 11:20 | 9.74        | 200                   | 1.2                    | 15.1                      | 9.5                | 612                                          | NM                                      | 2.46                                  | -47.6                 | 19.07                      | NM                                        |          |
| 11:23 | 9.73        | 200                   | 1.8                    | 15                        | 9.5                | 615                                          | NM                                      | 2                                     | -55                   | 26.83                      | NM                                        |          |
| 11:26 | 9.72        | 200                   | 2.4                    | 14.9                      | 9.5                | 619                                          | NM                                      | 1.69                                  | -63.3                 | 34.42                      | NM                                        |          |
| 11:29 | 9.76        | 200                   | 3                      | 14.7                      | 9.51               | 628                                          | NM                                      | 1.49                                  | -70.7                 | 32.9                       | NM                                        |          |
| 11:32 | 9.78        | 173.2                 | 3.6                    | 14.7                      | 9.51               | 628                                          | NM                                      | 1.35                                  | -76.9                 | 24.06                      | NM                                        |          |
| 11:35 | 9.79        | 200                   | 4.2                    | 14.8                      | 9.52               | 634                                          | NM                                      | 1.24                                  | -82.8                 | 32                         | NM                                        |          |
| 11:38 | 9.79        | 200                   | 4.8                    | 14.8                      | 9.52               | 635                                          | NM                                      | 1.19                                  | -85.8                 | 32.05                      | NM                                        |          |
| 11:41 | 9.78        | 200                   | 5.4                    | 14.8                      | 9.51               | 635                                          | NM                                      | 1.13                                  | -89.8                 | 29.98                      | NM                                        |          |

|                                      |                            |                                   |                                                                                       |                     |
|--------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-31-051425 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                     |                            | FP                                |  | 05/14/2025<br>18:57 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-26D**  
**Well Permit No:**

**Date: 2025/05/12**  
**Overcast**

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 80 (ft)              | <b>Reference Elevation</b><br>40.33 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>27.11 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>83.79 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>125 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>8.75 (l) / 4.5 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 13:36 | 28.03       | 125                   | 0.75                   | 16.6                      | 6.41               | 193.9                                        | NM                                      | 2.63                                  | 0.3                   | 52.49                      | NM                                        |          |
| 13:39 | 28.04       | 125                   | 1.125                  | 16.5                      | 6.33               | 194.1                                        | NM                                      | 2.11                                  | -2.8                  | 67.6                       | NM                                        |          |
| 13:42 | 28.09       | 125                   | 1.5                    | 16.2                      | 6.26               | 211.7                                        | NM                                      | 1.66                                  | -4.6                  | 104.27                     | NM                                        |          |
| 13:45 | 28.09       | 125                   | 1.875                  | 16                        | 6.23               | 355.7                                        | NM                                      | 1.4                                   | -4.2                  | 119.45                     | NM                                        |          |
| 13:48 | 28.05       | 125                   | 2.25                   | 15.8                      | 6.33               | 484.3                                        | NM                                      | 1.27                                  | -10.5                 | 110.2                      | NM                                        |          |
| 13:51 | 28.06       | 125                   | 2.625                  | 15.9                      | 6.43               | 535                                          | NM                                      | 1.17                                  | -16.5                 | 97.07                      | NM                                        |          |
| 13:54 | 28.04       | 125                   | 3                      | 16.2                      | 6.5                | 557                                          | NM                                      | 1.08                                  | -22                   | 86.2                       | NM                                        |          |
| 13:57 | 28.05       | 125                   | 3.375                  | 16.5                      | 6.56               | 564                                          | NM                                      | 1.02                                  | -30.6                 | 73.2                       | NM                                        |          |
| 14:00 | 27.97       | 125                   | 3.75                   | 16.6                      | 6.62               | 589                                          | NM                                      | 0.97                                  | -38.6                 | 61.92                      | NM                                        |          |
| 14:03 | 27.92       | 125                   | 4.125                  | 16.8                      | 6.64               | 592                                          | NM                                      | 0.95                                  | -41.9                 | 59.8                       | NM                                        |          |
| 14:06 | 27.89       | 125                   | 4.5                    | 16.8                      | 6.64               | 593                                          | NM                                      | 0.94                                  | -42.9                 | 54.39                      | NM                                        |          |

|                                       |                            |                                                                                             |                     |
|---------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-26d-051225 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b>                                                           | <b>Date Time</b>    |
| <b>Analysis:</b>                      |                            |                                                                                             |                     |
|                                       |                            | FP<br> | 05/12/2025<br>21:30 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-23D**  
**Well Permit No:**

**Date: 2025/05/13**  
**Overcast**

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 80 (ft)              | <b>Reference Elevation</b><br>39.31 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>27.98 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>83.4 (ft)                          |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>150 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>2.26 (l) / 5.4 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 07:20 | 28.79       | 150                   | 0.45                   | 13.3                      | 6.38               | 66943                                        | NM                                      | 39.2                                  | 83                    | 4.73                       | NM                                        |          |
| 07:23 | 28.78       | 150                   | 0.9                    | 13.5                      | 6.53               | 67559                                        | NM                                      | 2.14                                  | 45.7                  | 3.24                       | NM                                        |          |
| 07:25 | 28.87       | 150                   | 1.35                   | 13.7                      | 6.6                | 67870                                        | NM                                      | 1.84                                  | 28                    | 2.7                        | NM                                        |          |
| 07:28 | 28.98       | 150                   | 1.8                    | 13.8                      | 6.65               | 68162                                        | NM                                      | 1.65                                  | 14.1                  | 2.74                       | NM                                        |          |
| 07:31 | 28.87       | 150                   | 2.25                   | 13.8                      | 6.7                | 68466                                        | NM                                      | 1.51                                  | 1.6                   | 2.01                       | NM                                        |          |
| 07:34 | 28.89       | 150                   | 2.7                    | 13.8                      | 6.74               | 68657                                        | NM                                      | 1.39                                  | -8.2                  | 2.13                       | NM                                        |          |
| 07:37 | 28.83       | 150                   | 3.15                   | 13.7                      | 6.77               | 68789                                        | NM                                      | 1.31                                  | -16.7                 | 2.14                       | NM                                        |          |
| 07:40 | 28.71       | 150                   | 3.6                    | 13.8                      | 6.79               | 68853                                        | NM                                      | 1.25                                  | -23.1                 | 2.16                       | NM                                        |          |
| 07:43 | 28.49       | 150                   | 4.05                   | 13.8                      | 6.83               | 69027                                        | NM                                      | 1.2                                   | -28.8                 | 2.09                       | NM                                        |          |
| 07:46 | 28.68       | 150                   | 4.5                    | 13.8                      | 6.84               | 69387                                        | NM                                      | 1.14                                  | -35.6                 | 1.95                       | NM                                        |          |
| 07:49 | 28.55       | 150                   | 4.95                   | 13.8                      | 6.89               | 69618                                        | NM                                      | 1.11                                  | -39.6                 | 1.89                       | NM                                        |          |
| 07:52 | 28.59       | 150                   | 5.4                    | 13.8                      | 6.87               | 69813                                        | NM                                      | 1.08                                  | -42.6                 | 2.02                       | NM                                        |          |

|                                       |                            |                                   |                                                                                       |                     |
|---------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-23d-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                      |                            | FP                                |  | 05/13/2025<br>15:12 |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-17IR**  
**Well Permit No:**

**Date: 2025/05/13**  
**Cloudy**

|                                            |                                                                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 40 (ft)              | <b>Reference Elevation</b><br>37.59 (ft)                       |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>24.33 (ft) / None      |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>42.05 (ft)                          |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>150 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>2 (in) / - (ft) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>2.89 (l) / 3.6 (l) | <b>Well Construction</b>                                       |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 10:28 | 25.28       | 150                   | 0.45                   | 17.1                      | 7                  | 160.2                                        | NM                                      | 2.36                                  | -53.3                 | 13.15                      | NM                                        |          |
| 10:31 | 25.31       | 150                   | 0.9                    | 16.4                      | 7.16               | 329.2                                        | NM                                      | 2.47                                  | -70.7                 | 7.42                       | NM                                        |          |
| 10:34 | 25.41       | 150                   | 1.35                   | 16.4                      | 7.21               | 392                                          | NM                                      | 2.42                                  | -87.4                 | 7.09                       | NM                                        |          |
| 10:37 | 25.5        | 150                   | 1.8                    | 16.2                      | 7.74               | 648                                          | NM                                      | 2.3                                   | -114.4                | 6.84                       | NM                                        |          |
| 10:40 | 25.57       | 150                   | 2.25                   | 16.1                      | 8.75               | 886                                          | NM                                      | 2.15                                  | -148.1                | 7.22                       | NM                                        |          |
| 10:43 | 25.61       | 150                   | 2.7                    | 16.2                      | 8.9                | 928                                          | NM                                      | 2.08                                  | -152.7                | 7.31                       | NM                                        |          |
| 10:46 | 25.69       | 150                   | 3.15                   | 16.1                      | 8.7                | 705                                          | NM                                      | 1.88                                  | -134.7                | 6.92                       | NM                                        |          |
| 10:49 | 25.71       | 150                   | 3.6                    | 16.2                      | 8.55               | 730                                          | NM                                      | 1.65                                  | -135.2                | 6.88                       | NM                                        |          |
| 10:52 | 25.75       | 150                   | 4.05                   | 16.1                      | 8.95               | 843                                          | NM                                      | 1.26                                  | -149.4                | 6.02                       | NM                                        |          |
| 10:55 | 25.79       | 150                   | 4.5                    | 16.2                      | 9.07               | 918                                          | NM                                      | 1.19                                  | -154.4                | 6.02                       | NM                                        |          |
| 10:58 | 25.78       | 150                   | 4.95                   | 16.2                      | 9.18               | 985                                          | NM                                      | 1.18                                  | -158.2                | 6.23                       | NM                                        |          |
| 11:01 | 25.75       | 150                   | 5.4                    | 16.3                      | 9.22               | 1026                                         | NM                                      | 1.13                                  | -160.3                | 5.98                       | NM                                        |          |

|                                                      |                            |                                   |                                                                                       |                                             |
|------------------------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Sample ID(s):</b><br>DUP-01-051325,PA-17iR-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b><br><br>05/19/2025<br>19:29 |
| <b>Analysis:</b>                                     |                            | FP                                |  |                                             |



# Low Flow Groundwater Sampling Field Data Form

Well ID: PA-03  
Well Permit No:

Date: 2025/05/13  
Overcast

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 24 (ft)              | <b>Reference Elevation</b><br>37.1 (ft)                       |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>10.19 (ft) / None     |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>26.4 (ft)                          |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>0.66 (l) / 4.2 (l) | <b>Well Construction</b>                                      |

## Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW (ft) | Flow Rate (mL/min) | Purge Volume (l) | Temperature (C) ±3% | pH ±0.2pH units | Specific Conductivity (uS/cm) ±10 % | Total Conductivity (uS/cm) ±3% | Dissolved Oxygen (mg/L) ±10% | ORP (mV) ±10 mV | Turbidity (NTU) ±10% | Total Dissolved Solids(ppm) ±10% | Comments |
|-------|----------|--------------------|------------------|---------------------|-----------------|-------------------------------------|--------------------------------|------------------------------|-----------------|----------------------|----------------------------------|----------|
| 09:01 | 12.46    | 200                | 0.6              | 15.1                | 10.41           | 1556                                | NM                             | 3.32                         | -107.2          | 148.6                | NM                               |          |
| 09:04 | 12.38    | 200                | 1.2              | 15                  | 10.55           | 999                                 | NM                             | 2.3                          | -125.8          | 116.78               | NM                               |          |
| 09:07 | 12.01    | 200                | 1.8              | 14.8                | 10.6            | 754                                 | NM                             | 1.58                         | -141.6          | 84.28                | NM                               |          |
| 09:10 | 11.76    | 200                | 2.4              | 14.9                | 10.65           | 728                                 | NM                             | 1.38                         | -146.8          | 78.97                | NM                               |          |
| 09:13 | 11.35    | 200                | 3                | 15.2                | 10.62           | 699                                 | NM                             | 1.19                         | -154.2          | 77.26                | NM                               |          |
| 09:16 | 11.18    | 200                | 3.6              | 15.4                | 10.64           | 691                                 | NM                             | 1.09                         | -159.1          | 70                   | NM                               |          |
| 09:19 | 11.16    | 200                | 4.2              | 15.5                | 10.65           | 688                                 | NM                             | 1.04                         | -162.6          | 70.1                 | NM                               |          |

|                                      |                            |                                   |                                                                                       |                  |
|--------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|------------------|
| <b>Sample ID(s):</b><br>PA-03-051325 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b> |
| <b>Analysis:</b>                     |                            | FP                                |  |                  |



## Low Flow Groundwater Sampling Field Data Form

**Well ID: PA-04**  
**Well Permit No:**

**Date: 2025/05/13**  
**Overcast**

|                                            |                                                                            |                                                               |
|--------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site ID</b><br>ARKEMA-PORTLAND          | <b>Purge Method / Pump Intake Depth</b><br>Low Flow / 25 (ft)              | <b>Reference Elevation</b><br>36.67 (ft)                      |
| <b>Site Address</b><br>, Portland, US-OR   | <b>Purge Equipment</b><br>NA                                               | <b>Depth to Water / Free Product</b><br>9.38 (ft) / None      |
| <b>Project Number</b><br>0773823           | <b>Sample Equipment</b><br>NA                                              | <b>Total Well Depth</b><br>27.21 (ft)                         |
| <b>Project Name</b><br>202505012-GWMonitor | <b>Average Purge Rate</b><br>200 (mL/min)                                  | <b>Well Diameter / Well Screen Interval</b><br>1 (in) / - ( ) |
| <b>Sampler</b><br>faye parish              | <b>Volume of Water in Well / Total Volume Purged</b><br>0.73 (l) / 5.4 (l) | <b>Well Construction</b>                                      |

### Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

| Time  | DTW<br>(ft) | Flow Rate<br>(mL/min) | Purge<br>Volume<br>(l) | Temperature<br>(C)<br>±3% | pH<br>±0.2pH units | Specific<br>Conductivity<br>(uS/cm)<br>±10 % | Total<br>Conductivity<br>(uS/cm)<br>±3% | Dissolved<br>Oxygen<br>(mg/L)<br>±10% | ORP<br>(mV)<br>±10 mV | Turbidity<br>(NTU)<br>±10% | Total<br>Dissolved<br>Solids(ppm)<br>±10% | Comments |
|-------|-------------|-----------------------|------------------------|---------------------------|--------------------|----------------------------------------------|-----------------------------------------|---------------------------------------|-----------------------|----------------------------|-------------------------------------------|----------|
| 14:05 | 9.76        | 200                   | 0.6                    | 15.3                      | 9.96               | 699                                          | NM                                      | 35                                    | -115.2                | 99.21                      | NM                                        |          |
| 14:08 | 9.74        | 200                   | 1.2                    | 15.3                      | 10                 | 684                                          | NM                                      | 2.21                                  | -129.2                | 119.72                     | NM                                        |          |
| 14:11 | 9.79        | 200                   | 1.8                    | 15.3                      | 9.99               | 690                                          | NM                                      | 1.66                                  | -134.2                | 80.85                      | NM                                        |          |
| 14:14 | 9.78        | 200                   | 2.4                    | 15.3                      | 9.99               | 690                                          | NM                                      | 1.53                                  | -136.3                | 71.6                       | NM                                        |          |
| 14:17 | 9.79        | 200                   | 3                      | 15.2                      | 9.98               | 694                                          | NM                                      | 1.31                                  | -139.1                | 54.08                      | NM                                        |          |
| 14:20 | 9.79        | 200                   | 3.6                    | 15.2                      | 9.98               | 696                                          | NM                                      | 1.2                                   | -140.6                | 47.07                      | NM                                        |          |
| 14:23 | 9.79        | 200                   | 4.2                    | 15.2                      | 9.97               | 696                                          | NM                                      | 1.11                                  | -141.8                | 40.16                      | NM                                        |          |
| 14:26 | 9.79        | 200                   | 4.8                    | 15.1                      | 9.98               | 697                                          | NM                                      | 1.03                                  | -143.3                | 38.25                      | NM                                        |          |
| 14:29 | 9.78        | 200                   | 5.4                    | 15.2                      | 9.97               | 696                                          | NM                                      | 0.96                                  | -145.1                | 35.98                      | NM                                        |          |

|                                      |                            |                                   |                                                                                       |                     |
|--------------------------------------|----------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------|
| <b>Sample ID(s):</b><br>PA-04-051925 | <b>Additional Comments</b> | <b>SAMPLER NAME AND SIGNATURE</b> |                                                                                       | <b>Date Time</b>    |
| <b>Analysis:</b>                     |                            | FP                                |  | 05/19/2025<br>19:35 |



## APPENDIX B      LABORATORY ANALYTICAL REPORTS

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Avery Soplata  
ERM-West  
1050 SW 6th Avenue  
Suite 1650  
Portland, Oregon 97204

Generated 6/17/2025 4:49:48 PM Revision 1

## JOB DESCRIPTION

Arkema - Q2 2025 Groundwater Event

## JOB NUMBER

580-150469-1

# Eurofins Seattle

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



Authorized for release by  
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Revision 1



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# Case Narrative

Client: ERM-West  
Project: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Job ID: 580-150469-1**

**Eurofins Seattle**

## Job Narrative 580-150469-1

### REVISION

The report being provided is a revision of the original report sent on 6/4/2025. The report (revision 1) is being revised due to Revised to update project name to project name toL Q2 2025 Groundwater Event.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### **Receipt**

The samples were received on 5/14/2025 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

### **GC/MS VOA**

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: PA-27d-051325 (580-150469-20). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-650136 recovered above the upper control limit for Hexachlorobutadiene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to over-dilution in the initial analysis. MWA-31i(d)-051325 (580-150469-14), PA-22d-051325 (580-150469-15), PA-23d-051325 (580-150469-16) and PA-27d-051325 (580-150469-20)

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: PA-24d-051225 (580-150469-6). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was analyzed outside of analytical holding time: PA-24d-051225 (580-150469-6). This was due to an analyst error.

Method 8260C\_LL: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: PA-08-051225 (580-150469-2), PA-15i-051225 (580-150469-3), PA-16i-051225 (580-150469-7), PA-44i-051325 (580-150469-10), PA-17iR-051325 (580-150469-18), Dup-01-051325 (580-150469-19) and PA-04-051325 (580-150469-21). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### **HPLC/IC**

Method 314.0: The following samples were diluted due to the nature of the sample matrix: PA-08-051225 (580-150469-2), PA-15i-051225 (580-150469-3), PA-09-051225 (580-150469-4), PA-24d-051225 (580-150469-6), PA-16i-051225 (580-150469-7), PA-44i-051325 (580-150469-10) and PA-23d-051325 (580-150469-16). Elevated reporting limits (RLs) are provided.

Method 314.0: The following samples were diluted due to the nature of the sample matrix: PA-03-051325 (580-150469-17), PA-17iR-051325 (580-150469-18), Dup-01-051325 (580-150469-19), PA-27d-051325 (580-150469-20) and PA-04-051325 (580-150469-21). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Case Narrative

Client: ERM-West  
Project: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Job ID: 580-150469-1 (Continued)**

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### General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Definitions/Glossary

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| H         | Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description                          |
|-----------|------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: TB-051225

Lab Sample ID: 580-150469-1

Date Collected: 05/12/25 00:01

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 21:51 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chloroform                  | ND     |           | 0.50 | 0.090 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 21:51 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Tetrachloroethene           | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:51 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 21:51 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: TB-051225

Lab Sample ID: 580-150469-1

Date Collected: 05/12/25 00:01

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:51 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:51 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 21:51 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/21/25 21:51 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 05/21/25 21:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 05/21/25 21:51 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 80 - 120 |          | 05/21/25 21:51 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-08-051225

Lab Sample ID: 580-150469-2

Date Collected: 05/12/25 08:36

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chloromethane               | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Vinyl chloride              | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Bromomethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chloroethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Trichlorofluoromethane      | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1-Dichloroethene          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Carbon disulfide            | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Acetone                     | ND     |           | 50  | 15   | ug/L |   |          | 05/22/25 03:07 | 10      |
| Methylene Chloride          | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Methyl tert-butyl ether     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| trans-1,2-Dichloroethene    | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1-Dichloroethane          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 2,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| cis-1,2-Dichloroethene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 2-Butanone (MEK)            | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chlorobromomethane          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chloroform                  | ND     |           | 5.0 | 0.90 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1,1-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Carbon tetrachloride        | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1-Dichloropropene         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Benzene                     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2-Dichloroethane          | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Trichloroethene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Dibromomethane              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Dichlorobromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| cis-1,3-Dichloropropene     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:07 | 10      |
| Toluene                     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| trans-1,3-Dichloropropene   | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1,2-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Tetrachloroethene           | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,3-Dichloropropane         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chlorodibromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Ethylene Dibromide          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Chlorobenzene               | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Ethylbenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| m-Xylene & p-Xylene         | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| o-Xylene                    | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Styrene                     | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Bromoform                   | ND     |           | 10  | 3.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| Isopropylbenzene            | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Bromobenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2,3-Trichloropropane      | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| N-Propylbenzene             | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 2-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-08-051225

Lab Sample ID: 580-150469-2

Date Collected: 05/12/25 08:36

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,3,5-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| tert-Butylbenzene           | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2,4-Trimethylbenzene      | 0.84   | J         | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| sec-Butylbenzene            | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 4-Isopropyltoluene          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,3-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,4-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| n-Butylbenzene              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2,4-Trichlorobenzene      | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:07 | 10      |
| Naphthalene                 | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:07 | 10      |
| 1,2,3-Trichlorobenzene      | ND     |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 03:07 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/22/25 03:07 | 10      |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 05/22/25 03:07 | 10      |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/22/25 03:07 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |          | 05/22/25 03:07 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/19/25 16:23 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 260    |           | 30 | 8.6 | mg/L |   |          | 06/04/25 11:40 | 20      |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-15i-051225

Lab Sample ID: 580-150469-3

Date Collected: 05/12/25 09:34

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chloromethane               | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Vinyl chloride              | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Bromomethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chloroethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Trichlorofluoromethane      | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1-Dichloroethene          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Carbon disulfide            | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Acetone                     | ND     |           | 50  | 15   | ug/L |   |          | 05/22/25 03:27 | 10      |
| Methylene Chloride          | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Methyl tert-butyl ether     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| trans-1,2-Dichloroethene    | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1-Dichloroethane          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 2,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| cis-1,2-Dichloroethene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 2-Butanone (MEK)            | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chlorobromomethane          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chloroform                  | ND     |           | 5.0 | 0.90 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1,1-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Carbon tetrachloride        | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1-Dichloropropene         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Benzene                     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2-Dichloroethane          | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Trichloroethene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Dibromomethane              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Dichlorobromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| cis-1,3-Dichloropropene     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:27 | 10      |
| Toluene                     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| trans-1,3-Dichloropropene   | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1,2-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Tetrachloroethene           | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,3-Dichloropropane         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chlorodibromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Ethylene Dibromide          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Chlorobenzene               | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Ethylbenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| m-Xylene & p-Xylene         | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| o-Xylene                    | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Styrene                     | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Bromoform                   | ND     |           | 10  | 3.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| Isopropylbenzene            | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Bromobenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2,3-Trichloropropane      | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| N-Propylbenzene             | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 2-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-15i-051225

Lab Sample ID: 580-150469-3

Date Collected: 05/12/25 09:34

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,3,5-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| tert-Butylbenzene           | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2,4-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| sec-Butylbenzene            | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 4-Isopropyltoluene          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,3-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,4-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| n-Butylbenzene              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2,4-Trichlorobenzene      | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:27 | 10      |
| Naphthalene                 | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:27 | 10      |
| 1,2,3-Trichlorobenzene      | ND     |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 03:27 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 03:27 | 10      |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 05/22/25 03:27 | 10      |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/22/25 03:27 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 05/22/25 03:27 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/19/25 17:05 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 34     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 11:52 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-09-051225

Lab Sample ID: 580-150469-4

Date Collected: 05/12/25 09:53

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 22:54 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chloroform                  | 0.29   | J         | 0.50 | 0.090 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 22:54 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Tetrachloroethene           | 0.20   | J         | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:54 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 22:54 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-09-051225

Lab Sample ID: 580-150469-4

Date Collected: 05/12/25 09:53

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:54 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:54 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 22:54 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/21/25 22:54 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 05/21/25 22:54 | 1       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 80 - 120 |          | 05/21/25 22:54 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 05/21/25 22:54 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 10 | 4.5 | ug/L |   |          | 05/19/25 17:47 | 5       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 69     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 12:04 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-25d-051225

Lab Sample ID: 580-150469-5

Date Collected: 05/12/25 10:36

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chloromethane               | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Vinyl chloride              | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Bromomethane                | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chloroethane                | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Trichlorofluoromethane      | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1-Dichloroethene          | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Carbon disulfide            | ND          |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Acetone                     | ND          |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 23:15 | 1       |
| Methylene Chloride          | ND          |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Methyl tert-butyl ether     | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| trans-1,2-Dichloroethene    | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1-Dichloroethane          | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 2,2-Dichloropropane         | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| cis-1,2-Dichloroethene      | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 2-Butanone (MEK)            | ND          |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chlorobromomethane          | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chloroform                  | ND          |           | 0.50 | 0.090 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1,1-Trichloroethane       | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Carbon tetrachloride        | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1-Dichloropropene         | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Benzene                     | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2-Dichloroethane          | ND          |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Trichloroethene             | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2-Dichloropropane         | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Dibromomethane              | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Dichlorobromomethane        | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| cis-1,3-Dichloropropene     | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND          |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:15 | 1       |
| Toluene                     | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| trans-1,3-Dichloropropene   | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1,2-Trichloroethane       | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Tetrachloroethene           | ND          |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,3-Dichloropropane         | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chlorodibromomethane        | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Ethylene Dibromide          | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Chlorobenzene               | ND          |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND          |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Ethylbenzene                | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| m-Xylene & p-Xylene         | ND          |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:15 | 1       |
| <b>o-Xylene</b>             | <b>0.11</b> | <b>J</b>  | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Styrene                     | ND          |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Bromoform                   | ND          |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 23:15 | 1       |
| Isopropylbenzene            | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Bromobenzene                | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2,3-Trichloropropane      | ND          |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| N-Propylbenzene             | ND          |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 2-Chlorotoluene             | ND          |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-25d-051225

Lab Sample ID: 580-150469-5

Date Collected: 05/12/25 10:36

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:15 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:15 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 23:15 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/21/25 23:15 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 05/21/25 23:15 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 05/21/25 23:15 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |          | 05/21/25 23:15 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/19/25 18:29 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 15     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 12:16 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-24d-051225

Lab Sample ID: 580-150469-6

Date Collected: 05/12/25 11:48

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chloromethane               | ND     | H         | 20  | 5.5 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Vinyl chloride              | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Bromomethane                | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chloroethane                | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Trichlorofluoromethane      | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1-Dichloroethene          | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Carbon disulfide            | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Acetone                     | ND     | H         | 200 | 7.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Methylene Chloride          | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Methyl tert-butyl ether     | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| trans-1,2-Dichloroethene    | ND     | H         | 20  | 7.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1-Dichloroethane          | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 2,2-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| cis-1,2-Dichloroethene      | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 2-Butanone (MEK)            | ND     | H         | 100 | 10  | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chlorobromomethane          | ND     | H         | 50  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chloroform                  | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1,1-Trichloroethane       | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Carbon tetrachloride        | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1-Dichloropropene         | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Benzene                     | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2-Dichloroethane          | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Trichloroethene             | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Dibromomethane              | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Dichlorobromomethane        | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| cis-1,3-Dichloropropene     | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 100 | 5.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Toluene                     | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| trans-1,3-Dichloropropene   | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1,2-Trichloroethane       | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Tetrachloroethene           | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,3-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chlorodibromomethane        | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Ethylene Dibromide          | ND     | H         | 10  | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Chlorobenzene               | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Ethylbenzene                | ND     | H         | 10  | 4.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| m-Xylene & p-Xylene         | ND     | H         | 50  | 20  | ug/L |   |          | 05/29/25 18:11 | 10      |
| o-Xylene                    | ND     | H         | 10  | 4.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Styrene                     | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Bromoform                   | ND     | H         | 40  | 10  | ug/L |   |          | 05/29/25 18:11 | 10      |
| Isopropylbenzene            | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Bromobenzene                | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 10  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2,3-Trichloropropane      | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| N-Propylbenzene             | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 2-Chlorotoluene             | ND     | H         | 50  | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-24d-051225

Lab Sample ID: 580-150469-6

Date Collected: 05/12/25 11:48

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| tert-Butylbenzene           | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2,4-Trimethylbenzene      | ND     | H         | 50 | 10  | ug/L |   |          | 05/29/25 18:11 | 10      |
| sec-Butylbenzene            | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 4-Isopropyltoluene          | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,3-Dichlorobenzene         | ND     | H         | 50 | 6.8 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,4-Dichlorobenzene         | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| n-Butylbenzene              | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2-Dichlorobenzene         | ND     | H         | 50 | 2.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2,4-Trichlorobenzene      | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| Hexachlorobutadiene         | ND     | H         | 50 | 20  | ug/L |   |          | 05/29/25 18:11 | 10      |
| Naphthalene                 | ND     | H         | 50 | 10  | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,2,3-Trichlorobenzene      | ND     | H         | 50 | 4.0 | ug/L |   |          | 05/29/25 18:11 | 10      |
| 1,3,5-Trimethylbenzene      | ND     | H         | 50 | 3.0 | ug/L |   |          | 05/29/25 18:11 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 05/29/25 18:11 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 80 - 120 |          | 05/29/25 18:11 | 10      |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 80 - 120 |          | 05/29/25 18:11 | 10      |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 05/29/25 18:11 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/19/25 19:10 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 630    |           | 150 | 43  | mg/L |   |          | 06/04/25 12:52 | 100     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-16i-051225

Lab Sample ID: 580-150469-7

Date Collected: 05/12/25 11:07

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result        | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|---------------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chloromethane               | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Vinyl chloride              | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Bromomethane                | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chloroethane                | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Trichlorofluoromethane      | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1-Dichloroethene          | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Carbon disulfide            | ND            |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Acetone                     | ND            |           | 25  | 7.5  | ug/L |   |          | 05/22/25 02:03 | 5       |
| Methylene Chloride          | ND            |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:03 | 5       |
| Methyl tert-butyl ether     | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| trans-1,2-Dichloroethene    | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1-Dichloroethane          | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 2,2-Dichloropropane         | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| cis-1,2-Dichloroethene      | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 2-Butanone (MEK)            | ND            |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chlorobromomethane          | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chloroform                  | ND            |           | 2.5 | 0.45 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1,1-Trichloroethane       | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Carbon tetrachloride        | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1-Dichloropropene         | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Benzene                     | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2-Dichloroethane          | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Trichloroethene             | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2-Dichloropropane         | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Dibromomethane              | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Dichlorobromomethane        | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| cis-1,3-Dichloropropene     | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND            |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:03 | 5       |
| <b>Toluene</b>              | <b>0.49 J</b> |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| trans-1,3-Dichloropropene   | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1,2-Trichloroethane       | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Tetrachloroethene           | ND            |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,3-Dichloropropane         | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chlorodibromomethane        | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Ethylene Dibromide          | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Chlorobenzene               | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Ethylbenzene                | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| m-Xylene & p-Xylene         | ND            |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:03 | 5       |
| o-Xylene                    | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Styrene                     | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Bromoform                   | ND            |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 02:03 | 5       |
| Isopropylbenzene            | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Bromobenzene                | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2,3-Trichloropropane      | ND            |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| N-Propylbenzene             | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 2-Chlorotoluene             | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-16i-051225

Lab Sample ID: 580-150469-7

Date Collected: 05/12/25 11:07

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,3,5-Trimethylbenzene      | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| tert-Butylbenzene           | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2,4-Trimethylbenzene      | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| sec-Butylbenzene            | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 4-Isopropyltoluene          | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,3-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,4-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| n-Butylbenzene              | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2,4-Trichlorobenzene      | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Hexachlorobutadiene         | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:03 | 5       |
| Naphthalene                 | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:03 | 5       |
| 1,2,3-Trichlorobenzene      | ND     |           | 2.5 | 0.75 | ug/L |   |          | 05/22/25 02:03 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/22/25 02:03 | 5       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 05/22/25 02:03 | 5       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/22/25 02:03 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 80 - 120 |          | 05/22/25 02:03 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 20 | 9.1 | ug/L |   |          | 05/19/25 19:52 | 10      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 11     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 13:04 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-26d-051225

Lab Sample ID: 580-150469-8

Date Collected: 05/12/25 14:08

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 23:37 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Methyl tert-butyl ether     | 0.14   | J         | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chloroform                  | ND     |           | 0.50 | 0.090 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2-Dichloroethane          | 0.38   | J         | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:37 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Tetrachloroethene           | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:37 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 23:37 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-26d-051225

Lab Sample ID: 580-150469-8

Date Collected: 05/12/25 14:08

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:37 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:37 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 23:37 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 05/21/25 23:37 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 05/21/25 23:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/21/25 23:37 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 05/21/25 23:37 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/19/25 20:34 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 86     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 13:15 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-82-051325

Lab Sample ID: 580-150469-9

Date Collected: 05/13/25 06:12

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 23:57 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chloroform                  | 1.3    |           | 0.50 | 0.090 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Trichloroethene             | 0.25   | J         | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 23:57 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Tetrachloroethene           | 0.44   | J         | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 23:57 | 1       |
| o-Xylene                    | 0.087  | J         | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 23:57 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-82-051325

Lab Sample ID: 580-150469-9

Date Collected: 05/13/25 06:12

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 23:57 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 23:57 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 23:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/21/25 23:57 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 80 - 120 |          | 05/21/25 23:57 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/21/25 23:57 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 05/21/25 23:57 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | 93     |           | 20 | 9.1 | ug/L |   |          | 05/19/25 21:16 | 10      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 9.4    |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 13:27 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-44i-051325

Lab Sample ID: 580-150469-10

Date Collected: 05/13/25 07:26

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chloromethane               | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Vinyl chloride              | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Bromomethane                | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chloroethane                | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Trichlorofluoromethane      | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1-Dichloroethene          | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Carbon disulfide            | ND         |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Acetone                     | ND         |           | 25  | 7.5  | ug/L |   |          | 05/22/25 02:24 | 5       |
| Methylene Chloride          | ND         |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:24 | 5       |
| Methyl tert-butyl ether     | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| trans-1,2-Dichloroethene    | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1-Dichloroethane          | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 2,2-Dichloropropane         | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| cis-1,2-Dichloroethene      | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 2-Butanone (MEK)            | ND         |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chlorobromomethane          | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chloroform                  | ND         |           | 2.5 | 0.45 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1,1-Trichloroethane       | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Carbon tetrachloride        | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1-Dichloropropene         | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| <b>Benzene</b>              | <b>3.0</b> |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2-Dichloroethane          | ND         |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Trichloroethene             | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2-Dichloropropane         | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Dibromomethane              | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Dichlorobromomethane        | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| cis-1,3-Dichloropropene     | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND         |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:24 | 5       |
| Toluene                     | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| trans-1,3-Dichloropropene   | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1,2-Trichloroethane       | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Tetrachloroethene           | ND         |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,3-Dichloropropane         | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chlorodibromomethane        | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Ethylene Dibromide          | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Chlorobenzene               | ND         |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND         |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Ethylbenzene                | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| m-Xylene & p-Xylene         | ND         |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:24 | 5       |
| o-Xylene                    | ND         |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Styrene                     | ND         |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Bromoform                   | ND         |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 02:24 | 5       |
| Isopropylbenzene            | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Bromobenzene                | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2,3-Trichloropropane      | ND         |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| N-Propylbenzene             | ND         |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 2-Chlorotoluene             | ND         |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-44i-051325

Lab Sample ID: 580-150469-10

Date Collected: 05/13/25 07:26

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,3,5-Trimethylbenzene      | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| tert-Butylbenzene           | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2,4-Trimethylbenzene      | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| sec-Butylbenzene            | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 4-Isopropyltoluene          | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,3-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,4-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| n-Butylbenzene              | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2,4-Trichlorobenzene      | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Hexachlorobutadiene         | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:24 | 5       |
| Naphthalene                 | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:24 | 5       |
| 1,2,3-Trichlorobenzene      | ND     |           | 2.5 | 0.75 | ug/L |   |          | 05/22/25 02:24 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 02:24 | 5       |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 05/22/25 02:24 | 5       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 05/22/25 02:24 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 05/22/25 02:24 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/19/25 21:57 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 62     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 13:39 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: RB-01-051325

Lab Sample ID: 580-150469-11

Date Collected: 05/13/25 07:45

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/21/25 22:12 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chloroform                  | ND     |           | 0.50 | 0.090 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/21/25 22:12 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Tetrachloroethene           | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/21/25 22:12 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/21/25 22:12 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: RB-01-051325

Lab Sample ID: 580-150469-11

Date Collected: 05/13/25 07:45

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/21/25 22:12 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/21/25 22:12 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/21/25 22:12 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 95        |           | 80 - 120 |          | 05/21/25 22:12 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 80 - 120 |          | 05/21/25 22:12 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 05/21/25 22:12 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 80 - 120 |          | 05/21/25 22:12 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/19/25 22:39 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | ND     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 13:51 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-81i-051325

Lab Sample ID: 580-150469-12

Date Collected: 05/13/25 08:28

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result       | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| <b>Chloromethane</b>        | <b>0.16</b>  | <b>J</b>  | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Vinyl chloride              | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Bromomethane                | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Chloroethane                | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Trichlorofluoromethane      | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1-Dichloroethene          | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Carbon disulfide            | ND           |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Acetone                     | ND           |           | 5.0  | 1.5   | ug/L |   |          | 05/22/25 00:18 | 1       |
| Methylene Chloride          | ND           |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Methyl tert-butyl ether     | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| trans-1,2-Dichloroethene    | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1-Dichloroethane          | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 2,2-Dichloropropane         | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| cis-1,2-Dichloroethene      | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 2-Butanone (MEK)            | ND           |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 00:18 | 1       |
| Chlorobromomethane          | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Chloroform                  | ND           |           | 0.50 | 0.090 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1,1-Trichloroethane       | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Carbon tetrachloride        | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1-Dichloropropene         | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Benzene                     | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2-Dichloroethane          | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Trichloroethene             | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2-Dichloropropane         | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Dibromomethane              | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Dichlorobromomethane        | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| cis-1,3-Dichloropropene     | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND           |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 00:18 | 1       |
| Toluene                     | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| trans-1,3-Dichloropropene   | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1,2-Trichloroethane       | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Tetrachloroethene           | ND           |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,3-Dichloropropane         | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Chlorodibromomethane        | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Ethylene Dibromide          | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Chlorobenzene               | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Ethylbenzene                | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| m-Xylene & p-Xylene         | ND           |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:18 | 1       |
| <b>o-Xylene</b>             | <b>0.098</b> | <b>J</b>  | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Styrene                     | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Bromoform                   | ND           |           | 1.0  | 0.30  | ug/L |   |          | 05/22/25 00:18 | 1       |
| Isopropylbenzene            | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Bromobenzene                | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2,3-Trichloropropane      | ND           |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| N-Propylbenzene             | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 2-Chlorotoluene             | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-81i-051325

Lab Sample ID: 580-150469-12

Date Collected: 05/13/25 08:28

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:18 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:18 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/22/25 00:18 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 95        |           | 80 - 120 |          | 05/22/25 00:18 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 05/22/25 00:18 | 1       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 80 - 120 |          | 05/22/25 00:18 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 05/22/25 00:18 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/20/25 00:02 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 28     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 14:27 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-41-051325

Lab Sample ID: 580-150469-13

Date Collected: 05/13/25 09:03

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result       | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| <b>Chloromethane</b>        | <b>0.19</b>  | <b>J</b>  | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Vinyl chloride              | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Bromomethane                | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Chloroethane                | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Trichlorofluoromethane      | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1-Dichloroethene          | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Carbon disulfide            | ND           |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Acetone                     | ND           |           | 5.0  | 1.5   | ug/L |   |          | 05/22/25 00:39 | 1       |
| Methylene Chloride          | ND           | F1        | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Methyl tert-butyl ether     | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| trans-1,2-Dichloroethene    | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1-Dichloroethane          | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 2,2-Dichloropropane         | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| cis-1,2-Dichloroethene      | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 2-Butanone (MEK)            | ND           |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 00:39 | 1       |
| Chlorobromomethane          | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Chloroform                  | ND           | F1        | 0.50 | 0.090 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1,1-Trichloroethane       | ND           | F1        | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Carbon tetrachloride        | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1-Dichloropropene         | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Benzene                     | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2-Dichloroethane          | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Trichloroethene             | ND           | F1        | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2-Dichloropropane         | ND           | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Dibromomethane              | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Dichlorobromomethane        | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| cis-1,3-Dichloropropene     | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND           |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 00:39 | 1       |
| Toluene                     | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| trans-1,3-Dichloropropene   | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1,2-Trichloroethane       | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Tetrachloroethene           | ND           |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,3-Dichloropropane         | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Chlorodibromomethane        | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Ethylene Dibromide          | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Chlorobenzene               | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Ethylbenzene                | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| m-Xylene & p-Xylene         | ND           |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 00:39 | 1       |
| <b>o-Xylene</b>             | <b>0.075</b> | <b>J</b>  | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Styrene                     | ND           |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Bromoform                   | ND           |           | 1.0  | 0.30  | ug/L |   |          | 05/22/25 00:39 | 1       |
| Isopropylbenzene            | ND           | F1        | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Bromobenzene                | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2,3-Trichloropropane      | ND           |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| N-Propylbenzene             | ND           |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 2-Chlorotoluene             | ND           |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-41-051325

Lab Sample ID: 580-150469-13

Date Collected: 05/13/25 09:03

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| sec-Butylbenzene            | ND     | F1        | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| n-Butylbenzene              | ND     | F1        | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Hexachlorobutadiene         | ND     | F1        | 0.50 | 0.080 | ug/L |   |          | 05/22/25 00:39 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 00:39 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/22/25 00:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 00:39 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 05/22/25 00:39 | 1       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 80 - 120 |          | 05/22/25 00:39 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |          | 05/22/25 00:39 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/20/25 00:44 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 8.6    | F1        | 1.5 | 0.43 | mg/L |   |          | 06/04/25 09:11 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-31i(d)-051325

Lab Sample ID: 580-150469-14

Date Collected: 05/13/25 10:11

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Acetone                     | 1.0    | J H       | 20  | 0.70 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Methylene Chloride          | 1.7    | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1-Dichloroethane          | 0.43   | J H       | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chloroform                  | 77     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Tetrachloroethene           | 0.43   | J H       | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Chlorobenzene               | 0.43   | J H       | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 15:51 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| Isopropylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: MWA-31i(d)-051325

Lab Sample ID: 580-150469-14

Date Collected: 05/13/25 10:11

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |
| Hexachlorobutadiene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 05/29/25 15:51 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 15:51 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 05/29/25 15:51 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 80 - 120 |          | 05/29/25 15:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 05/29/25 15:51 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |          | 05/29/25 15:51 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL    | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-------|------|------|---|----------|----------------|---------|
| Perchlorate | 100000 |           | 10000 | 4500 | ug/L |   |          | 05/20/25 16:02 | 5000    |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 22000  |           | 600 | 170 | mg/L |   |          | 06/04/25 16:54 | 400     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-22d-051325

Lab Sample ID: 580-150469-15

Date Collected: 05/13/25 11:30

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Acetone                     | ND     | H         | 20  | 0.70 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Methylene Chloride          | 0.36   | J H       | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chloroform                  | 17     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Tetrachloroethene           | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 16:11 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| Isopropylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-22d-051325

Lab Sample ID: 580-150469-15

Date Collected: 05/13/25 11:30

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |
| Hexachlorobutadiene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 05/29/25 16:11 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:11 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 05/29/25 16:11 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 05/29/25 16:11 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |          | 05/29/25 16:11 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 05/29/25 16:11 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Perchlorate | 13000  |           | 2000 | 910 | ug/L |   |          | 05/20/25 16:23 | 1000    |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 5100   |           | 150 | 43  | mg/L |   |          | 06/04/25 14:51 | 100     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-23d-051325

Lab Sample ID: 580-150469-16

Date Collected: 05/13/25 07:54

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Acetone                     | 1.0    | J H       | 20  | 0.70 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Methylene Chloride          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chloroform                  | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Tetrachloroethene           | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 16:32 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| Isopropylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-23d-051325

Lab Sample ID: 580-150469-16

Date Collected: 05/13/25 07:54

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |
| Hexachlorobutadiene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 05/29/25 16:32 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 05/29/25 16:32 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 05/29/25 16:32 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 05/29/25 16:32 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 05/29/25 16:32 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 05/29/25 16:32 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/20/25 04:13 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 31000  |           | 600 | 170 | mg/L |   |          | 06/04/25 17:06 | 400     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-03-051325

Lab Sample ID: 580-150469-17

Date Collected: 05/13/25 09:20

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 05/22/25 01:42 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1-Dichloroethane          | 0.11   | J         | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chloroform                  | ND     |           | 0.50 | 0.090 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 05/22/25 01:42 | 1       |
| Toluene                     | 0.096  | J         | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Tetrachloroethene           | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 05/22/25 01:42 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 05/22/25 01:42 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-03-051325

Lab Sample ID: 580-150469-17

Date Collected: 05/13/25 09:20

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Hexachlorobutadiene         | 0.18   | J         | 0.50 | 0.080 | ug/L |   |          | 05/22/25 01:42 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 05/22/25 01:42 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 05/22/25 01:42 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 01:42 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 05/22/25 01:42 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 80 - 120 |          | 05/22/25 01:42 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 80 - 120 |          | 05/22/25 01:42 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/20/25 04:55 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 9.3    |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 15:15 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-17iR-051325

Lab Sample ID: 580-150469-18

Date Collected: 05/13/25 11:03

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chloromethane               | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Vinyl chloride              | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Bromomethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chloroethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Trichlorofluoromethane      | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1-Dichloroethene          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Carbon disulfide            | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Acetone                     | ND     |           | 50  | 15   | ug/L |   |          | 05/22/25 03:48 | 10      |
| Methylene Chloride          | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Methyl tert-butyl ether     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| trans-1,2-Dichloroethene    | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1-Dichloroethane          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 2,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| cis-1,2-Dichloroethene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 2-Butanone (MEK)            | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chlorobromomethane          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chloroform                  | ND     |           | 5.0 | 0.90 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1,1-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Carbon tetrachloride        | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1-Dichloropropene         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Benzene                     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2-Dichloroethane          | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Trichloroethene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Dibromomethane              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Dichlorobromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| cis-1,3-Dichloropropene     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 03:48 | 10      |
| Toluene                     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| trans-1,3-Dichloropropene   | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1,2-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Tetrachloroethene           | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,3-Dichloropropane         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chlorodibromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Ethylene Dibromide          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Chlorobenzene               | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Ethylbenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| m-Xylene & p-Xylene         | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| o-Xylene                    | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Styrene                     | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Bromoform                   | ND     |           | 10  | 3.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| Isopropylbenzene            | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Bromobenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2,3-Trichloropropane      | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| N-Propylbenzene             | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 2-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-17iR-051325

Lab Sample ID: 580-150469-18

Date Collected: 05/13/25 11:03

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,3,5-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| tert-Butylbenzene           | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2,4-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| sec-Butylbenzene            | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 4-Isopropyltoluene          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,3-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,4-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| n-Butylbenzene              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2,4-Trichlorobenzene      | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 03:48 | 10      |
| Naphthalene                 | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 03:48 | 10      |
| 1,2,3-Trichlorobenzene      | ND     |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 03:48 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/22/25 03:48 | 10      |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 05/22/25 03:48 | 10      |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 05/22/25 03:48 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 05/22/25 03:48 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/20/25 05:36 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 57     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 15:51 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: Dup-01-051325

Lab Sample ID: 580-150469-19

Date Collected: 05/13/25 12:00

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chloromethane               | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Vinyl chloride              | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Bromomethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chloroethane                | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Trichlorofluoromethane      | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1-Dichloroethene          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Carbon disulfide            | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Acetone                     | ND     |           | 50  | 15   | ug/L |   |          | 05/22/25 04:09 | 10      |
| Methylene Chloride          | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Methyl tert-butyl ether     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| trans-1,2-Dichloroethene    | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1-Dichloroethane          | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 2,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| cis-1,2-Dichloroethene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 2-Butanone (MEK)            | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chlorobromomethane          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chloroform                  | ND     |           | 5.0 | 0.90 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1,1-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Carbon tetrachloride        | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1-Dichloropropene         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Benzene                     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2-Dichloroethane          | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Trichloroethene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2-Dichloropropane         | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Dibromomethane              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Dichlorobromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| cis-1,3-Dichloropropene     | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 50  | 10   | ug/L |   |          | 05/22/25 04:09 | 10      |
| Toluene                     | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| trans-1,3-Dichloropropene   | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1,2-Trichloroethane       | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Tetrachloroethene           | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,3-Dichloropropane         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chlorodibromomethane        | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Ethylene Dibromide          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Chlorobenzene               | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Ethylbenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| m-Xylene & p-Xylene         | ND     |           | 5.0 | 2.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| o-Xylene                    | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Styrene                     | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Bromoform                   | ND     |           | 10  | 3.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| Isopropylbenzene            | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Bromobenzene                | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2,3-Trichloropropane      | ND     |           | 10  | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| N-Propylbenzene             | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 2-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: Dup-01-051325

Lab Sample ID: 580-150469-19

Date Collected: 05/13/25 12:00

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,3,5-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| tert-Butylbenzene           | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2,4-Trimethylbenzene      | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| sec-Butylbenzene            | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 4-Isopropyltoluene          | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,3-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,4-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| n-Butylbenzene              | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2-Dichlorobenzene         | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2,4-Trichlorobenzene      | ND     |           | 5.0 | 0.70 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Hexachlorobutadiene         | ND     |           | 5.0 | 0.80 | ug/L |   |          | 05/22/25 04:09 | 10      |
| Naphthalene                 | ND     |           | 5.0 | 1.0  | ug/L |   |          | 05/22/25 04:09 | 10      |
| 1,2,3-Trichlorobenzene      | ND     |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 04:09 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 04:09 | 10      |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 05/22/25 04:09 | 10      |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 05/22/25 04:09 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 05/22/25 04:09 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/20/25 06:18 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 58     |           | 1.5 | 0.43 | mg/L |   |          | 06/04/25 16:02 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-27d-051325

Lab Sample ID: 580-150469-20

Date Collected: 05/13/25 12:53

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chloromethane               | ND     | H         | 10  | 2.8 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Vinyl chloride              | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Bromomethane                | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chloroethane                | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Trichlorofluoromethane      | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1-Dichloroethene          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Carbon disulfide            | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Acetone                     | ND     | H         | 100 | 3.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Methylene Chloride          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Methyl tert-butyl ether     | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| trans-1,2-Dichloroethene    | ND     | H         | 10  | 3.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1-Dichloroethane          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 2,2-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| cis-1,2-Dichloroethene      | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 2-Butanone (MEK)            | ND     | H         | 50  | 5.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chlorobromomethane          | ND     | H         | 25  | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chloroform                  | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1,1-Trichloroethane       | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Carbon tetrachloride        | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1-Dichloropropene         | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Benzene                     | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2-Dichloroethane          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Trichloroethene             | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Dibromomethane              | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Dichlorobromomethane        | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| cis-1,3-Dichloropropene     | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 50  | 2.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Toluene                     | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| trans-1,3-Dichloropropene   | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1,2-Trichloroethane       | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Tetrachloroethene           | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,3-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chlorodibromomethane        | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Ethylene Dibromide          | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Chlorobenzene               | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Ethylbenzene                | ND     | H         | 5.0 | 2.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| m-Xylene & p-Xylene         | ND     | H         | 25  | 10  | ug/L |   |          | 05/29/25 16:52 | 5       |
| o-Xylene                    | ND     | H         | 5.0 | 2.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Styrene                     | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Bromoform                   | ND     | H         | 20  | 5.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Isopropylbenzene            | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Bromobenzene                | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2,3-Trichloropropane      | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| N-Propylbenzene             | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 2-Chlorotoluene             | ND     | H         | 25  | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-27d-051325

Lab Sample ID: 580-150469-20

Date Collected: 05/13/25 12:53

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| tert-Butylbenzene           | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 25 | 5.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| sec-Butylbenzene            | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 4-Isopropyltoluene          | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,3-Dichlorobenzene         | ND     | H         | 25 | 3.4 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,4-Dichlorobenzene         | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| n-Butylbenzene              | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2-Dichlorobenzene         | ND     | H         | 25 | 1.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |
| Hexachlorobutadiene         | ND     | H         | 25 | 10  | ug/L |   |          | 05/29/25 16:52 | 5       |
| Naphthalene                 | ND     | H         | 25 | 5.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 25 | 2.0 | ug/L |   |          | 05/29/25 16:52 | 5       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 25 | 1.5 | ug/L |   |          | 05/29/25 16:52 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 05/29/25 16:52 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 80 - 120 |          | 05/29/25 16:52 | 5       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 05/29/25 16:52 | 5       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |          | 05/29/25 16:52 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/20/25 07:00 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 600    |           | 15 | 4.3 | mg/L |   |          | 06/04/25 16:26 | 10      |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-04-051325

Lab Sample ID: 580-150469-21

Date Collected: 05/13/25 14:31

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                        | Result        | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|---------------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane        | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chloromethane                  | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Vinyl chloride                 | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Bromomethane                   | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chloroethane                   | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Trichlorofluoromethane         | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1-Dichloroethene             | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Carbon disulfide               | ND            |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Acetone                        | ND            |           | 25  | 7.5  | ug/L |   |          | 05/22/25 02:46 | 5       |
| Methylene Chloride             | ND            |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:46 | 5       |
| Methyl tert-butyl ether        | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| trans-1,2-Dichloroethene       | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1-Dichloroethane             | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 2,2-Dichloropropane            | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| cis-1,2-Dichloroethene         | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 2-Butanone (MEK)               | ND            |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chlorobromomethane             | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chloroform                     | ND            |           | 2.5 | 0.45 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1,1-Trichloroethane          | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Carbon tetrachloride           | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1-Dichloropropene            | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| <b>Benzene</b>                 | <b>6.2</b>    |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2-Dichloroethane             | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Trichloroethene                | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2-Dichloropropane            | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Dibromomethane                 | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Dichlorobromomethane           | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| cis-1,3-Dichloropropene        | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 4-Methyl-2-pentanone (MIBK)    | ND            |           | 25  | 5.0  | ug/L |   |          | 05/22/25 02:46 | 5       |
| <b>Toluene</b>                 | <b>2.0 J</b>  |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| trans-1,3-Dichloropropene      | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1,2-Trichloroethane          | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Tetrachloroethene              | ND            |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,3-Dichloropropane            | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chlorodibromomethane           | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Ethylene Dibromide             | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Chlorobenzene                  | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1,1,2-Tetrachloroethane      | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| <b>Ethylbenzene</b>            | <b>1.4 J</b>  |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| <b>m-Xylene &amp; p-Xylene</b> | <b>2.3 J</b>  |           | 2.5 | 1.0  | ug/L |   |          | 05/22/25 02:46 | 5       |
| <b>o-Xylene</b>                | <b>0.47 J</b> |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Styrene                        | ND            |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Bromoform                      | ND            |           | 5.0 | 1.5  | ug/L |   |          | 05/22/25 02:46 | 5       |
| Isopropylbenzene               | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Bromobenzene                   | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,1,2,2-Tetrachloroethane      | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2,3-Trichloropropane         | ND            |           | 5.0 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| N-Propylbenzene                | ND            |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 2-Chlorotoluene                | ND            |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

Client Sample ID: PA-04-051325

Lab Sample ID: 580-150469-21

Date Collected: 05/13/25 14:31

Matrix: Water

Date Received: 05/14/25 12:30

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,3,5-Trimethylbenzene      | 0.56   | J         | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| tert-Butylbenzene           | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2,4-Trimethylbenzene      | 1.3    | J         | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| sec-Butylbenzene            | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 4-Isopropyltoluene          | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,3-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,4-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| n-Butylbenzene              | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2-Dichlorobenzene         | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2,4-Trichlorobenzene      | ND     |           | 2.5 | 0.35 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Hexachlorobutadiene         | ND     |           | 2.5 | 0.40 | ug/L |   |          | 05/22/25 02:46 | 5       |
| Naphthalene                 | ND     |           | 2.5 | 0.50 | ug/L |   |          | 05/22/25 02:46 | 5       |
| 1,2,3-Trichlorobenzene      | ND     |           | 2.5 | 0.75 | ug/L |   |          | 05/22/25 02:46 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |          | 05/22/25 02:46 | 5       |
| Dibromofluoromethane (Surr)  | 102       |           | 80 - 120 |          | 05/22/25 02:46 | 5       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 80 - 120 |          | 05/22/25 02:46 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 80 - 120 |          | 05/22/25 02:46 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 20 | 9.1 | ug/L |   |          | 05/20/25 07:41 | 10      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 60     |           | 7.5 | 2.2 | mg/L |   |          | 06/04/25 10:49 | 5       |

# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-647331/6

Matrix: Water

Analysis Batch: 647331

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chloromethane               | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Vinyl chloride              | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Bromomethane                | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chloroethane                | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Trichlorofluoromethane      | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1-Dichloroethene          | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Carbon disulfide            | ND        |              | 1.0  | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Acetone                     | ND        |              | 5.0  | 1.5   | ug/L |   |          | 05/21/25 21:30 | 1       |
| Methylene Chloride          | ND        |              | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Methyl tert-butyl ether     | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1-Dichloroethane          | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 2,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 2-Butanone (MEK)            | ND        |              | 5.0  | 1.0   | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chlorobromomethane          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chloroform                  | ND        |              | 0.50 | 0.090 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Carbon tetrachloride        | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1-Dichloropropene         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Benzene                     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2-Dichloroethane          | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Trichloroethene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Dibromomethane              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Dichlorobromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0  | 1.0   | ug/L |   |          | 05/21/25 21:30 | 1       |
| Toluene                     | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Tetrachloroethene           | ND        |              | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,3-Dichloropropane         | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chlorodibromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Ethylene Dibromide          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Chlorobenzene               | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Ethylbenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 0.50 | 0.20  | ug/L |   |          | 05/21/25 21:30 | 1       |
| o-Xylene                    | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Styrene                     | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Bromoform                   | ND        |              | 1.0  | 0.30  | ug/L |   |          | 05/21/25 21:30 | 1       |
| Isopropylbenzene            | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Bromobenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0  | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| N-Propylbenzene             | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-647331/6

Matrix: Water

Analysis Batch: 647331

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| 2-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 4-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| tert-Butylbenzene           | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| sec-Butylbenzene            | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 4-Isopropyltoluene          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| n-Butylbenzene              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 0.50 | 0.070 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Hexachlorobutadiene         | ND        |              | 0.50 | 0.080 | ug/L |   |          | 05/21/25 21:30 | 1       |
| Naphthalene                 | ND        |              | 0.50 | 0.10  | ug/L |   |          | 05/21/25 21:30 | 1       |
| 1,2,3-Trichlorobenzene      | ND        |              | 0.50 | 0.15  | ug/L |   |          | 05/21/25 21:30 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 96           |              | 80 - 120 |          | 05/21/25 21:30 | 1       |
| Dibromofluoromethane (Surr)  | 103          |              | 80 - 120 |          | 05/21/25 21:30 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95           |              | 80 - 120 |          | 05/21/25 21:30 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 80 - 120 |          | 05/21/25 21:30 | 1       |

Lab Sample ID: LCS 410-647331/4

Matrix: Water

Analysis Batch: 647331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane  | 5.00        | 5.03       |               | ug/L |   | 101  | 43 - 123    |
| Chloromethane            | 5.00        | 4.37       |               | ug/L |   | 87   | 56 - 124    |
| Vinyl chloride           | 5.00        | 4.93       |               | ug/L |   | 99   | 60 - 125    |
| Bromomethane             | 5.00        | 5.01       |               | ug/L |   | 100  | 63 - 120    |
| Chloroethane             | 5.00        | 5.53       |               | ug/L |   | 111  | 63 - 120    |
| Trichlorofluoromethane   | 5.00        | 5.11       |               | ug/L |   | 102  | 53 - 136    |
| 1,1-Dichloroethene       | 5.00        | 6.23       |               | ug/L |   | 125  | 80 - 131    |
| Carbon disulfide         | 5.00        | 5.38       |               | ug/L |   | 108  | 67 - 130    |
| Acetone                  | 62.5        | 64.1       |               | ug/L |   | 103  | 60 - 146    |
| Methylene Chloride       | 5.00        | 5.86       |               | ug/L |   | 117  | 80 - 120    |
| Methyl tert-butyl ether  | 5.00        | 4.96       |               | ug/L |   | 99   | 69 - 120    |
| trans-1,2-Dichloroethene | 5.00        | 6.07       |               | ug/L |   | 121  | 80 - 122    |
| 1,1-Dichloroethane       | 5.00        | 5.97       |               | ug/L |   | 119  | 74 - 120    |
| 2,2-Dichloropropane      | 5.00        | 5.65       |               | ug/L |   | 113  | 77 - 128    |
| cis-1,2-Dichloroethene   | 5.00        | 5.53       |               | ug/L |   | 111  | 80 - 122    |
| 2-Butanone (MEK)         | 62.5        | 75.4       |               | ug/L |   | 121  | 59 - 141    |
| Chlorobromomethane       | 5.00        | 5.85       |               | ug/L |   | 117  | 80 - 133    |
| Chloroform               | 5.00        | 5.83       |               | ug/L |   | 117  | 80 - 120    |
| 1,1,1-Trichloroethane    | 5.00        | 5.76       |               | ug/L |   | 115  | 78 - 126    |
| Carbon tetrachloride     | 5.00        | 5.66       |               | ug/L |   | 113  | 64 - 141    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-647331/4

Matrix: Water

Analysis Batch: 647331

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloropropene         | 5.00        | 5.64       |               | ug/L |   | 113  | 74 - 120    |
| Benzene                     | 5.00        | 5.72       |               | ug/L |   | 114  | 80 - 120    |
| 1,2-Dichloroethane          | 5.00        | 5.65       |               | ug/L |   | 113  | 69 - 122    |
| Trichloroethene             | 5.00        | 5.64       |               | ug/L |   | 113  | 80 - 120    |
| 1,2-Dichloropropane         | 5.00        | 5.89       |               | ug/L |   | 118  | 80 - 120    |
| Dibromomethane              | 5.00        | 5.75       |               | ug/L |   | 115  | 80 - 122    |
| Dichlorobromomethane        | 5.00        | 5.72       |               | ug/L |   | 114  | 80 - 123    |
| cis-1,3-Dichloropropene     | 5.00        | 5.24       |               | ug/L |   | 105  | 67 - 121    |
| 4-Methyl-2-pentanone (MIBK) | 62.5        | 74.6       |               | ug/L |   | 119  | 55 - 140    |
| Toluene                     | 5.00        | 5.27       |               | ug/L |   | 105  | 80 - 120    |
| trans-1,3-Dichloropropene   | 5.00        | 5.17       |               | ug/L |   | 103  | 61 - 129    |
| 1,1,2-Trichloroethane       | 5.00        | 5.28       |               | ug/L |   | 106  | 80 - 120    |
| Tetrachloroethene           | 5.00        | 4.99       |               | ug/L |   | 100  | 80 - 120    |
| 1,3-Dichloropropane         | 5.00        | 5.11       |               | ug/L |   | 102  | 80 - 120    |
| Chlorodibromomethane        | 5.00        | 5.22       |               | ug/L |   | 104  | 80 - 123    |
| Ethylene Dibromide          | 5.00        | 5.20       |               | ug/L |   | 104  | 80 - 120    |
| Chlorobenzene               | 5.00        | 5.06       |               | ug/L |   | 101  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 5.00        | 5.08       |               | ug/L |   | 102  | 80 - 122    |
| Ethylbenzene                | 5.00        | 5.25       |               | ug/L |   | 105  | 80 - 120    |
| m-Xylene & p-Xylene         | 10.0        | 10.7       |               | ug/L |   | 107  | 80 - 120    |
| o-Xylene                    | 5.00        | 5.32       |               | ug/L |   | 106  | 80 - 120    |
| Styrene                     | 5.00        | 5.40       |               | ug/L |   | 108  | 80 - 120    |
| Bromoform                   | 5.00        | 5.10       |               | ug/L |   | 102  | 75 - 126    |
| Isopropylbenzene            | 5.00        | 5.95       |               | ug/L |   | 119  | 80 - 120    |
| Bromobenzene                | 5.00        | 4.99       |               | ug/L |   | 100  | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 5.00        | 5.07       |               | ug/L |   | 101  | 75 - 123    |
| 1,2,3-Trichloropropane      | 5.00        | 5.04       |               | ug/L |   | 101  | 80 - 125    |
| N-Propylbenzene             | 5.00        | 5.48       |               | ug/L |   | 110  | 74 - 122    |
| 2-Chlorotoluene             | 5.00        | 5.01       |               | ug/L |   | 100  | 80 - 120    |
| 4-Chlorotoluene             | 5.00        | 5.04       |               | ug/L |   | 101  | 80 - 120    |
| 1,3,5-Trimethylbenzene      | 5.00        | 5.35       |               | ug/L |   | 107  | 80 - 120    |
| tert-Butylbenzene           | 5.00        | 4.87       |               | ug/L |   | 97   | 79 - 120    |
| 1,2,4-Trimethylbenzene      | 5.00        | 5.15       |               | ug/L |   | 103  | 80 - 120    |
| sec-Butylbenzene            | 5.00        | 5.53       |               | ug/L |   | 111  | 80 - 120    |
| 4-Isopropyltoluene          | 5.00        | 5.50       |               | ug/L |   | 110  | 80 - 120    |
| 1,3-Dichlorobenzene         | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 120    |
| 1,4-Dichlorobenzene         | 5.00        | 4.83       |               | ug/L |   | 97   | 80 - 120    |
| n-Butylbenzene              | 5.00        | 5.96       |               | ug/L |   | 119  | 74 - 123    |
| 1,2-Dichlorobenzene         | 5.00        | 5.08       |               | ug/L |   | 102  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 5.00        | 4.63       |               | ug/L |   | 93   | 75 - 124    |
| 1,2,4-Trichlorobenzene      | 5.00        | 5.53       |               | ug/L |   | 111  | 68 - 122    |
| Hexachlorobutadiene         | 5.00        | 6.01       |               | ug/L |   | 120  | 72 - 132    |
| Naphthalene                 | 5.00        | 5.16       |               | ug/L |   | 103  | 64 - 135    |
| 1,2,3-Trichlorobenzene      | 5.00        | 5.14       |               | ug/L |   | 103  | 62 - 141    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)           | 97            |               | 80 - 120 |
| Dibromofluoromethane (Surr) | 102           |               | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-647331/4

Matrix: Water

Analysis Batch: 647331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 80 - 120 |

Lab Sample ID: 580-150469-13 MS

Matrix: Water

Analysis Batch: 647331

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Dichlorodifluoromethane     | ND            | F1               | 5.00        | 6.27      | F1           | ug/L |   | 125  | 43 - 123    |
| Chloromethane               | 0.19          | J                | 5.00        | 5.11      |              | ug/L |   | 98   | 80 - 120    |
| Vinyl chloride              | ND            |                  | 5.00        | 5.42      |              | ug/L |   | 108  | 60 - 125    |
| Bromomethane                | ND            |                  | 5.00        | 5.36      |              | ug/L |   | 107  | 63 - 120    |
| Chloroethane                | ND            | F1               | 5.00        | 6.06      | F1           | ug/L |   | 121  | 63 - 120    |
| Trichlorofluoromethane      | ND            |                  | 5.00        | 5.95      |              | ug/L |   | 119  | 53 - 136    |
| 1,1-Dichloroethene          | ND            | F1               | 5.00        | 7.19      | F1           | ug/L |   | 144  | 80 - 131    |
| Carbon disulfide            | ND            |                  | 5.00        | 6.02      |              | ug/L |   | 120  | 67 - 130    |
| Acetone                     | ND            |                  | 62.6        | 60.4      |              | ug/L |   | 96   | 60 - 146    |
| Methylene Chloride          | ND            | F1               | 5.00        | 6.44      | F1           | ug/L |   | 129  | 80 - 120    |
| Methyl tert-butyl ether     | ND            |                  | 5.00        | 5.16      |              | ug/L |   | 103  | 69 - 120    |
| trans-1,2-Dichloroethene    | ND            | F1               | 5.00        | 6.74      | F1           | ug/L |   | 135  | 80 - 122    |
| 1,1-Dichloroethane          | ND            | F1               | 5.00        | 6.57      | F1           | ug/L |   | 131  | 74 - 120    |
| 2,2-Dichloropropane         | ND            |                  | 5.00        | 6.12      |              | ug/L |   | 122  | 77 - 128    |
| cis-1,2-Dichloroethene      | ND            |                  | 5.00        | 5.96      |              | ug/L |   | 119  | 80 - 122    |
| 2-Butanone (MEK)            | ND            |                  | 62.6        | 64.4      |              | ug/L |   | 103  | 59 - 141    |
| Chlorobromomethane          | ND            |                  | 5.00        | 6.16      |              | ug/L |   | 123  | 80 - 133    |
| Chloroform                  | ND            | F1               | 5.00        | 6.24      | F1           | ug/L |   | 125  | 80 - 120    |
| 1,1,1-Trichloroethane       | ND            | F1               | 5.00        | 6.44      | F1           | ug/L |   | 129  | 78 - 126    |
| Carbon tetrachloride        | ND            |                  | 5.00        | 6.42      |              | ug/L |   | 128  | 64 - 141    |
| 1,1-Dichloropropene         | ND            | F1               | 5.00        | 6.37      | F1           | ug/L |   | 127  | 74 - 120    |
| Benzene                     | ND            | F1               | 5.00        | 6.18      | F1           | ug/L |   | 124  | 80 - 120    |
| 1,2-Dichloroethane          | ND            |                  | 5.00        | 5.72      |              | ug/L |   | 114  | 69 - 122    |
| Trichloroethene             | ND            | F1               | 5.00        | 6.19      | F1           | ug/L |   | 124  | 80 - 120    |
| 1,2-Dichloropropane         | ND            | F1               | 5.00        | 6.30      | F1           | ug/L |   | 126  | 80 - 120    |
| Dibromomethane              | ND            |                  | 5.00        | 5.99      |              | ug/L |   | 120  | 80 - 122    |
| Dichlorobromomethane        | ND            |                  | 5.00        | 6.11      |              | ug/L |   | 122  | 80 - 123    |
| cis-1,3-Dichloropropene     | ND            |                  | 5.00        | 5.52      |              | ug/L |   | 110  | 67 - 121    |
| 4-Methyl-2-pentanone (MIBK) | ND            |                  | 62.6        | 61.1      |              | ug/L |   | 98   | 55 - 140    |
| Toluene                     | ND            |                  | 5.00        | 5.63      |              | ug/L |   | 113  | 80 - 120    |
| trans-1,3-Dichloropropene   | ND            |                  | 5.00        | 5.29      |              | ug/L |   | 106  | 61 - 129    |
| 1,1,2-Trichloroethane       | ND            |                  | 5.00        | 5.30      |              | ug/L |   | 106  | 80 - 120    |
| Tetrachloroethene           | ND            |                  | 5.00        | 5.51      |              | ug/L |   | 110  | 80 - 120    |
| 1,3-Dichloropropane         | ND            |                  | 5.00        | 5.32      |              | ug/L |   | 106  | 80 - 120    |
| Chlorodibromomethane        | ND            |                  | 5.00        | 5.41      |              | ug/L |   | 108  | 80 - 123    |
| Ethylene Dibromide          | ND            |                  | 5.00        | 5.29      |              | ug/L |   | 106  | 80 - 120    |
| Chlorobenzene               | ND            |                  | 5.00        | 5.38      |              | ug/L |   | 108  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | ND            |                  | 5.00        | 5.30      |              | ug/L |   | 106  | 80 - 122    |
| Ethylbenzene                | ND            |                  | 5.00        | 5.68      |              | ug/L |   | 113  | 80 - 120    |
| m-Xylene & p-Xylene         | ND            |                  | 10.0        | 11.4      |              | ug/L |   | 114  | 80 - 120    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150469-13 MS

Matrix: Water

Analysis Batch: 647331

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| o-Xylene                    | 0.075         | J                | 5.00        | 5.63      |              | ug/L |   | 111  | 80 - 120    |
| Styrene                     | ND            |                  | 5.00        | 5.65      |              | ug/L |   | 113  | 80 - 120    |
| Bromoform                   | ND            |                  | 5.00        | 5.24      |              | ug/L |   | 105  | 75 - 126    |
| Isopropylbenzene            | ND            | F1               | 5.00        | 6.37      | F1           | ug/L |   | 127  | 80 - 120    |
| Bromobenzene                | ND            |                  | 5.00        | 5.29      |              | ug/L |   | 106  | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | ND            |                  | 5.00        | 5.24      |              | ug/L |   | 105  | 75 - 123    |
| 1,2,3-Trichloropropane      | ND            |                  | 5.00        | 5.27      |              | ug/L |   | 105  | 80 - 125    |
| N-Propylbenzene             | ND            |                  | 5.00        | 5.82      |              | ug/L |   | 116  | 74 - 122    |
| 2-Chlorotoluene             | ND            |                  | 5.00        | 5.32      |              | ug/L |   | 106  | 80 - 120    |
| 4-Chlorotoluene             | ND            |                  | 5.00        | 5.10      |              | ug/L |   | 102  | 80 - 120    |
| 1,3,5-Trimethylbenzene      | ND            |                  | 5.00        | 5.58      |              | ug/L |   | 111  | 80 - 120    |
| tert-Butylbenzene           | ND            |                  | 5.00        | 5.25      |              | ug/L |   | 105  | 79 - 120    |
| 1,2,4-Trimethylbenzene      | ND            |                  | 5.00        | 5.39      |              | ug/L |   | 108  | 80 - 120    |
| sec-Butylbenzene            | ND            | F1               | 5.00        | 5.98      |              | ug/L |   | 119  | 80 - 120    |
| 4-Isopropyltoluene          | ND            |                  | 5.00        | 5.82      |              | ug/L |   | 116  | 80 - 120    |
| 1,3-Dichlorobenzene         | ND            |                  | 5.00        | 5.38      |              | ug/L |   | 108  | 80 - 120    |
| 1,4-Dichlorobenzene         | ND            |                  | 5.00        | 5.13      |              | ug/L |   | 103  | 80 - 120    |
| n-Butylbenzene              | ND            | F1               | 5.00        | 6.44      | F1           | ug/L |   | 129  | 74 - 123    |
| 1,2-Dichlorobenzene         | ND            |                  | 5.00        | 5.34      |              | ug/L |   | 107  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | ND            |                  | 5.00        | 4.39      |              | ug/L |   | 88   | 75 - 124    |
| 1,2,4-Trichlorobenzene      | ND            |                  | 5.00        | 5.72      |              | ug/L |   | 114  | 68 - 122    |
| Hexachlorobutadiene         | ND            | F1               | 5.00        | 6.77      | F1           | ug/L |   | 135  | 72 - 132    |
| Naphthalene                 | ND            |                  | 5.00        | 5.18      |              | ug/L |   | 104  | 64 - 135    |
| 1,2,3-Trichlorobenzene      | ND            |                  | 5.00        | 5.15      |              | ug/L |   | 103  | 62 - 141    |

| Surrogate                    | %Recovery | MS Qualifier | MS Limits |
|------------------------------|-----------|--------------|-----------|
| Toluene-d8 (Surr)            | 97        |              | 80 - 120  |
| Dibromofluoromethane (Surr)  | 105       |              | 80 - 120  |
| 4-Bromofluorobenzene (Surr)  | 98        |              | 80 - 120  |
| 1,2-Dichloroethane-d4 (Surr) | 109       |              | 80 - 120  |

Lab Sample ID: 580-150469-13 MSD

Matrix: Water

Analysis Batch: 647331

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte                  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Dichlorodifluoromethane  | ND            | F1               | 5.00        | 6.13       |               | ug/L |   | 122  | 43 - 123    | 2   | 30        |
| Chloromethane            | 0.19          | J                | 5.00        | 4.78       |               | ug/L |   | 92   | 80 - 120    | 7   | 30        |
| Vinyl chloride           | ND            |                  | 5.00        | 5.40       |               | ug/L |   | 108  | 60 - 125    | 0   | 30        |
| Bromomethane             | ND            |                  | 5.00        | 5.40       |               | ug/L |   | 108  | 63 - 120    | 1   | 30        |
| Chloroethane             | ND            | F1               | 5.00        | 6.00       |               | ug/L |   | 120  | 63 - 120    | 1   | 30        |
| Trichlorofluoromethane   | ND            |                  | 5.00        | 5.95       |               | ug/L |   | 119  | 53 - 136    | 0   | 30        |
| 1,1-Dichloroethene       | ND            | F1               | 5.00        | 7.01       | F1            | ug/L |   | 140  | 80 - 131    | 3   | 30        |
| Carbon disulfide         | ND            |                  | 5.00        | 5.95       |               | ug/L |   | 119  | 67 - 130    | 1   | 30        |
| Acetone                  | ND            |                  | 62.6        | 59.6       |               | ug/L |   | 95   | 60 - 146    | 1   | 30        |
| Methylene Chloride       | ND            | F1               | 5.00        | 6.29       | F1            | ug/L |   | 126  | 80 - 120    | 2   | 30        |
| Methyl tert-butyl ether  | ND            |                  | 5.00        | 5.14       |               | ug/L |   | 103  | 69 - 120    | 0   | 30        |
| trans-1,2-Dichloroethene | ND            | F1               | 5.00        | 6.66       | F1            | ug/L |   | 133  | 80 - 122    | 1   | 30        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150469-13 MSD

Matrix: Water

Analysis Batch: 647331

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethane          | ND            | F1               | 5.00        | 6.43       | F1            | ug/L |   | 129  | 74 - 120    | 2   | 30        |
| 2,2-Dichloropropane         | ND            |                  | 5.00        | 6.04       |               | ug/L |   | 121  | 77 - 128    | 1   | 30        |
| cis-1,2-Dichloroethene      | ND            |                  | 5.00        | 5.89       |               | ug/L |   | 118  | 80 - 122    | 1   | 30        |
| 2-Butanone (MEK)            | ND            |                  | 62.6        | 64.2       |               | ug/L |   | 103  | 59 - 141    | 0   | 30        |
| Chlorobromomethane          | ND            |                  | 5.00        | 6.09       |               | ug/L |   | 122  | 80 - 133    | 1   | 30        |
| Chloroform                  | ND            | F1               | 5.00        | 6.19       | F1            | ug/L |   | 124  | 80 - 120    | 1   | 30        |
| 1,1,1-Trichloroethane       | ND            | F1               | 5.00        | 6.43       | F1            | ug/L |   | 128  | 78 - 126    | 0   | 30        |
| Carbon tetrachloride        | ND            |                  | 5.00        | 6.38       |               | ug/L |   | 127  | 64 - 141    | 1   | 30        |
| 1,1-Dichloropropene         | ND            | F1               | 5.00        | 6.30       | F1            | ug/L |   | 126  | 74 - 120    | 1   | 30        |
| Benzene                     | ND            | F1               | 5.00        | 6.06       | F1            | ug/L |   | 121  | 80 - 120    | 2   | 30        |
| 1,2-Dichloroethane          | ND            |                  | 5.00        | 5.98       |               | ug/L |   | 120  | 69 - 122    | 5   | 30        |
| Trichloroethene             | ND            | F1               | 5.00        | 6.13       | F1            | ug/L |   | 123  | 80 - 120    | 1   | 30        |
| 1,2-Dichloropropane         | ND            | F1               | 5.00        | 6.23       | F1            | ug/L |   | 124  | 80 - 120    | 1   | 30        |
| Dibromomethane              | ND            |                  | 5.00        | 5.97       |               | ug/L |   | 119  | 80 - 122    | 0   | 30        |
| Dichlorobromomethane        | ND            |                  | 5.00        | 6.06       |               | ug/L |   | 121  | 80 - 123    | 1   | 30        |
| cis-1,3-Dichloropropene     | ND            |                  | 5.00        | 5.43       |               | ug/L |   | 109  | 67 - 121    | 2   | 30        |
| 4-Methyl-2-pentanone (MIBK) | ND            |                  | 62.6        | 58.1       |               | ug/L |   | 93   | 55 - 140    | 5   | 30        |
| Toluene                     | ND            |                  | 5.00        | 5.48       |               | ug/L |   | 109  | 80 - 120    | 3   | 30        |
| trans-1,3-Dichloropropene   | ND            |                  | 5.00        | 5.25       |               | ug/L |   | 105  | 61 - 129    | 1   | 30        |
| 1,1,2-Trichloroethane       | ND            |                  | 5.00        | 5.29       |               | ug/L |   | 106  | 80 - 120    | 0   | 30        |
| Tetrachloroethene           | ND            |                  | 5.00        | 5.41       |               | ug/L |   | 108  | 80 - 120    | 2   | 30        |
| 1,3-Dichloropropane         | ND            |                  | 5.00        | 5.21       |               | ug/L |   | 104  | 80 - 120    | 2   | 30        |
| Chlorodibromomethane        | ND            |                  | 5.00        | 5.24       |               | ug/L |   | 105  | 80 - 123    | 3   | 30        |
| Ethylene Dibromide          | ND            |                  | 5.00        | 5.26       |               | ug/L |   | 105  | 80 - 120    | 1   | 30        |
| Chlorobenzene               | ND            |                  | 5.00        | 5.27       |               | ug/L |   | 105  | 80 - 120    | 2   | 30        |
| 1,1,1,2-Tetrachloroethane   | ND            |                  | 5.00        | 5.25       |               | ug/L |   | 105  | 80 - 122    | 1   | 30        |
| Ethylbenzene                | ND            |                  | 5.00        | 5.51       |               | ug/L |   | 110  | 80 - 120    | 3   | 30        |
| m-Xylene & p-Xylene         | ND            |                  | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120    | 3   | 30        |
| o-Xylene                    | 0.075         | J                | 5.00        | 5.56       |               | ug/L |   | 110  | 80 - 120    | 1   | 30        |
| Styrene                     | ND            |                  | 5.00        | 5.60       |               | ug/L |   | 112  | 80 - 120    | 1   | 30        |
| Bromoform                   | ND            |                  | 5.00        | 5.04       |               | ug/L |   | 101  | 75 - 126    | 4   | 30        |
| Isopropylbenzene            | ND            | F1               | 5.00        | 6.25       | F1            | ug/L |   | 125  | 80 - 120    | 2   | 30        |
| Bromobenzene                | ND            |                  | 5.00        | 5.25       |               | ug/L |   | 105  | 80 - 120    | 1   | 30        |
| 1,1,2,2-Tetrachloroethane   | ND            |                  | 5.00        | 5.14       |               | ug/L |   | 103  | 75 - 123    | 2   | 30        |
| 1,2,3-Trichloropropane      | ND            |                  | 5.00        | 5.31       |               | ug/L |   | 106  | 80 - 125    | 1   | 30        |
| N-Propylbenzene             | ND            |                  | 5.00        | 5.77       |               | ug/L |   | 115  | 74 - 122    | 1   | 30        |
| 2-Chlorotoluene             | ND            |                  | 5.00        | 5.24       |               | ug/L |   | 105  | 80 - 120    | 2   | 30        |
| 4-Chlorotoluene             | ND            |                  | 5.00        | 5.20       |               | ug/L |   | 104  | 80 - 120    | 2   | 30        |
| 1,3,5-Trimethylbenzene      | ND            |                  | 5.00        | 5.59       |               | ug/L |   | 112  | 80 - 120    | 0   | 30        |
| tert-Butylbenzene           | ND            |                  | 5.00        | 5.32       |               | ug/L |   | 106  | 79 - 120    | 1   | 30        |
| 1,2,4-Trimethylbenzene      | ND            |                  | 5.00        | 5.41       |               | ug/L |   | 108  | 80 - 120    | 0   | 30        |
| sec-Butylbenzene            | ND            | F1               | 5.00        | 6.05       | F1            | ug/L |   | 121  | 80 - 120    | 1   | 30        |
| 4-Isopropyltoluene          | ND            |                  | 5.00        | 5.86       |               | ug/L |   | 117  | 80 - 120    | 1   | 30        |
| 1,3-Dichlorobenzene         | ND            |                  | 5.00        | 5.39       |               | ug/L |   | 108  | 80 - 120    | 0   | 30        |
| 1,4-Dichlorobenzene         | ND            |                  | 5.00        | 5.05       |               | ug/L |   | 101  | 80 - 120    | 2   | 30        |
| n-Butylbenzene              | ND            | F1               | 5.00        | 6.51       | F1            | ug/L |   | 130  | 74 - 123    | 1   | 30        |
| 1,2-Dichlorobenzene         | ND            |                  | 5.00        | 5.34       |               | ug/L |   | 107  | 80 - 120    | 0   | 30        |
| 1,2-Dibromo-3-Chloropropane | ND            |                  | 5.00        | 4.54       |               | ug/L |   | 91   | 75 - 124    | 3   | 30        |
| 1,2,4-Trichlorobenzene      | ND            |                  | 5.00        | 5.67       |               | ug/L |   | 113  | 68 - 122    | 1   | 30        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150469-13 MSD

Matrix: Water

Analysis Batch: 647331

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Hexachlorobutadiene          | ND            | F1               | 5.00        | 6.81       | F1            | ug/L |   | 136  | 72 - 132    | 1   | 30        |
| Naphthalene                  | ND            |                  | 5.00        | 5.24       |               | ug/L |   | 105  | 64 - 135    | 1   | 30        |
| 1,2,3-Trichlorobenzene       | ND            |                  | 5.00        | 5.22       |               | ug/L |   | 104  | 62 - 141    | 1   | 30        |
| Surrogate                    | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |             |     |           |
| Toluene-d8 (Surr)            | 97            |                  | 80 - 120    |            |               |      |   |      |             |     |           |
| Dibromofluoromethane (Surr)  | 106           |                  | 80 - 120    |            |               |      |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)  | 97            |                  | 80 - 120    |            |               |      |   |      |             |     |           |
| 1,2-Dichloroethane-d4 (Surr) | 105           |                  | 80 - 120    |            |               |      |   |      |             |     |           |

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-650136/11

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chloromethane               | ND        |              | 2.0 | 0.55 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Vinyl chloride              | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Bromomethane                | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chloroethane                | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Trichlorofluoromethane      | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1-Dichloroethene          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Carbon disulfide            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Acetone                     | ND        |              | 20  | 0.70 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Methylene Chloride          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Methyl tert-butyl ether     | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 2.0 | 0.70 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 2,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chlorobromomethane          | ND        |              | 5.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chloroform                  | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Carbon tetrachloride        | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1-Dichloropropene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Trichloroethene             | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Dibromomethane              | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Dichlorobromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 10  | 0.50 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Toluene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-650136/11

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Tetrachloroethene           | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,3-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chlorodibromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Ethylene Dibromide          | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Chlorobenzene               | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Ethylbenzene                | ND        |              | 1.0 | 0.40 | ug/L |   |          | 05/29/25 13:07 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| o-Xylene                    | ND        |              | 1.0 | 0.40 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Styrene                     | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Bromoform                   | ND        |              | 4.0 | 1.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| Isopropylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Bromobenzene                | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| N-Propylbenzene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 2-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 4-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| tert-Butylbenzene           | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 5.0 | 1.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| sec-Butylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 4-Isopropyltoluene          | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 5.0 | 0.68 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| n-Butylbenzene              | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 5.0 | 0.20 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |
| Hexachlorobutadiene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| Naphthalene                 | ND        |              | 5.0 | 1.0  | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,2,3-Trichlorobenzene      | ND        |              | 5.0 | 0.40 | ug/L |   |          | 05/29/25 13:07 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 13:07 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100          |              | 80 - 120 |          | 05/29/25 13:07 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 80 - 120 |          | 05/29/25 13:07 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101          |              | 80 - 120 |          | 05/29/25 13:07 | 1       |
| Dibromofluoromethane (Surr)  | 104          |              | 80 - 120 |          | 05/29/25 13:07 | 1       |

Lab Sample ID: LCS 410-650136/8

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane | 20.0        | 13.6       |               | ug/L |   | 68   | 26 - 127    |
| Chloromethane           | 20.0        | 14.9       |               | ug/L |   | 75   | 39 - 134    |
| Vinyl chloride          | 20.0        | 14.8       |               | ug/L |   | 74   | 56 - 120    |
| Bromomethane            | 20.0        | 14.5       |               | ug/L |   | 72   | 53 - 128    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-650136/8

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Chloroethane                | 20.0        | 16.0       |               | ug/L |   | 80   | 55 - 123    |
| Trichlorofluoromethane      | 20.0        | 16.8       |               | ug/L |   | 84   | 51 - 120    |
| 1,1-Dichloroethene          | 20.0        | 20.5       |               | ug/L |   | 102  | 80 - 131    |
| Carbon disulfide            | 20.0        | 16.8       |               | ug/L |   | 84   | 65 - 128    |
| Acetone                     | 250         | 268        |               | ug/L |   | 107  | 57 - 143    |
| Methylene Chloride          | 20.0        | 19.3       |               | ug/L |   | 97   | 80 - 120    |
| Methyl tert-butyl ether     | 20.0        | 18.1       |               | ug/L |   | 91   | 69 - 122    |
| trans-1,2-Dichloroethene    | 20.0        | 20.4       |               | ug/L |   | 102  | 80 - 126    |
| 1,1-Dichloroethane          | 20.0        | 20.7       |               | ug/L |   | 104  | 80 - 120    |
| 2,2-Dichloropropane         | 20.0        | 19.7       |               | ug/L |   | 99   | 63 - 129    |
| cis-1,2-Dichloroethene      | 20.0        | 19.4       |               | ug/L |   | 97   | 80 - 125    |
| 2-Butanone (MEK)            | 250         | 279        |               | ug/L |   | 111  | 59 - 135    |
| Chlorobromomethane          | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120    |
| Chloroform                  | 20.0        | 20.3       |               | ug/L |   | 102  | 80 - 120    |
| 1,1,1-Trichloroethane       | 20.0        | 20.2       |               | ug/L |   | 101  | 73 - 120    |
| Carbon tetrachloride        | 20.0        | 20.5       |               | ug/L |   | 102  | 64 - 134    |
| 1,1-Dichloropropene         | 20.0        | 19.8       |               | ug/L |   | 99   | 78 - 120    |
| Benzene                     | 20.0        | 19.4       |               | ug/L |   | 97   | 80 - 120    |
| 1,2-Dichloroethane          | 20.0        | 21.1       |               | ug/L |   | 105  | 73 - 124    |
| Trichloroethene             | 20.0        | 20.5       |               | ug/L |   | 102  | 80 - 120    |
| 1,2-Dichloropropane         | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| Dibromomethane              | 20.0        | 20.5       |               | ug/L |   | 103  | 80 - 120    |
| Dichlorobromomethane        | 20.0        | 19.9       |               | ug/L |   | 100  | 71 - 120    |
| cis-1,3-Dichloropropene     | 20.0        | 19.3       |               | ug/L |   | 97   | 75 - 120    |
| 4-Methyl-2-pentanone (MIBK) | 250         | 266        |               | ug/L |   | 106  | 62 - 133    |
| Toluene                     | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120    |
| trans-1,3-Dichloropropene   | 20.0        | 20.2       |               | ug/L |   | 101  | 67 - 120    |
| 1,1,2-Trichloroethane       | 20.0        | 20.3       |               | ug/L |   | 101  | 80 - 120    |
| Tetrachloroethene           | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120    |
| 1,3-Dichloropropane         | 20.0        | 20.5       |               | ug/L |   | 103  | 80 - 120    |
| Chlorodibromomethane        | 20.0        | 19.7       |               | ug/L |   | 98   | 71 - 120    |
| Ethylene Dibromide          | 20.0        | 20.3       |               | ug/L |   | 102  | 77 - 120    |
| Chlorobenzene               | 20.0        | 20.4       |               | ug/L |   | 102  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 19.3       |               | ug/L |   | 97   | 79 - 120    |
| Ethylbenzene                | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| m-Xylene & p-Xylene         | 40.0        | 39.8       |               | ug/L |   | 100  | 80 - 120    |
| o-Xylene                    | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 120    |
| Styrene                     | 20.0        | 19.5       |               | ug/L |   | 97   | 80 - 120    |
| Bromoform                   | 20.0        | 19.0       |               | ug/L |   | 95   | 51 - 120    |
| Isopropylbenzene            | 20.0        | 22.3       |               | ug/L |   | 112  | 80 - 120    |
| Bromobenzene                | 20.0        | 20.3       |               | ug/L |   | 102  | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 18.6       |               | ug/L |   | 93   | 72 - 120    |
| 1,2,3-Trichloropropane      | 20.0        | 19.5       |               | ug/L |   | 97   | 75 - 124    |
| N-Propylbenzene             | 20.0        | 20.2       |               | ug/L |   | 101  | 79 - 121    |
| 2-Chlorotoluene             | 20.0        | 19.5       |               | ug/L |   | 97   | 80 - 120    |
| 4-Chlorotoluene             | 20.0        | 19.9       |               | ug/L |   | 99   | 80 - 120    |
| tert-Butylbenzene           | 20.0        | 19.9       |               | ug/L |   | 99   | 78 - 120    |
| 1,2,4-Trimethylbenzene      | 20.0        | 19.2       |               | ug/L |   | 96   | 75 - 120    |
| sec-Butylbenzene            | 20.0        | 20.4       |               | ug/L |   | 102  | 77 - 120    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-650136/8

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4-Isopropyltoluene          | 20.0        | 19.8       |               | ug/L |   | 99   | 76 - 120    |
| 1,3-Dichlorobenzene         | 20.0        | 20.1       |               | ug/L |   | 101  | 80 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 20.1       |               | ug/L |   | 101  | 80 - 120    |
| n-Butylbenzene              | 20.0        | 20.3       |               | ug/L |   | 101  | 76 - 120    |
| 1,2-Dichlorobenzene         | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 18.7       |               | ug/L |   | 94   | 60 - 120    |
| 1,2,4-Trichlorobenzene      | 20.0        | 19.5       |               | ug/L |   | 97   | 63 - 120    |
| Hexachlorobutadiene         | 20.0        | 23.5       |               | ug/L |   | 117  | 63 - 120    |
| Naphthalene                 | 20.0        | 18.2       |               | ug/L |   | 91   | 67 - 124    |
| 1,2,3-Trichlorobenzene      | 20.0        | 18.9       |               | ug/L |   | 95   | 66 - 120    |
| 1,3,5-Trimethylbenzene      | 20.0        | 19.4       |               | ug/L |   | 97   | 75 - 120    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 100           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 104           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 98            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 104           |               | 80 - 120 |

Lab Sample ID: LCSD 410-650136/9

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Dichlorodifluoromethane  | 20.0        | 13.4        |                | ug/L |   | 67   | 26 - 127    | 1   | 30        |
| Chloromethane            | 20.0        | 14.7        |                | ug/L |   | 73   | 39 - 134    | 2   | 30        |
| Vinyl chloride           | 20.0        | 14.7        |                | ug/L |   | 73   | 56 - 120    | 0   | 30        |
| Bromomethane             | 20.0        | 14.6        |                | ug/L |   | 73   | 53 - 128    | 1   | 30        |
| Chloroethane             | 20.0        | 15.4        |                | ug/L |   | 77   | 55 - 123    | 4   | 30        |
| Trichlorofluoromethane   | 20.0        | 17.0        |                | ug/L |   | 85   | 51 - 120    | 1   | 30        |
| 1,1-Dichloroethene       | 20.0        | 20.6        |                | ug/L |   | 103  | 80 - 131    | 1   | 30        |
| Carbon disulfide         | 20.0        | 17.0        |                | ug/L |   | 85   | 65 - 128    | 1   | 30        |
| Acetone                  | 250         | 269         |                | ug/L |   | 108  | 57 - 143    | 1   | 30        |
| Methylene Chloride       | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 0   | 30        |
| Methyl tert-butyl ether  | 20.0        | 18.0        |                | ug/L |   | 90   | 69 - 122    | 1   | 30        |
| trans-1,2-Dichloroethene | 20.0        | 20.1        |                | ug/L |   | 100  | 80 - 126    | 2   | 30        |
| 1,1-Dichloroethane       | 20.0        | 20.9        |                | ug/L |   | 105  | 80 - 120    | 1   | 30        |
| 2,2-Dichloropropane      | 20.0        | 19.4        |                | ug/L |   | 97   | 63 - 129    | 2   | 30        |
| cis-1,2-Dichloroethene   | 20.0        | 19.2        |                | ug/L |   | 96   | 80 - 125    | 1   | 30        |
| 2-Butanone (MEK)         | 250         | 276         |                | ug/L |   | 110  | 59 - 135    | 1   | 30        |
| Chlorobromomethane       | 20.0        | 19.7        |                | ug/L |   | 99   | 80 - 120    | 1   | 30        |
| Chloroform               | 20.0        | 20.0        |                | ug/L |   | 100  | 80 - 120    | 1   | 30        |
| 1,1,1-Trichloroethane    | 20.0        | 20.3        |                | ug/L |   | 102  | 73 - 120    | 1   | 30        |
| Carbon tetrachloride     | 20.0        | 20.5        |                | ug/L |   | 102  | 64 - 134    | 0   | 30        |
| 1,1-Dichloropropene      | 20.0        | 19.7        |                | ug/L |   | 99   | 78 - 120    | 0   | 30        |
| Benzene                  | 20.0        | 19.2        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| 1,2-Dichloroethane       | 20.0        | 21.1        |                | ug/L |   | 105  | 73 - 124    | 0   | 30        |
| Trichloroethene          | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 120    | 3   | 30        |
| 1,2-Dichloropropane      | 20.0        | 19.7        |                | ug/L |   | 98   | 80 - 120    | 1   | 30        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-650136/9

Matrix: Water

Analysis Batch: 650136

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Dibromomethane              | 20.0        | 20.3        |                | ug/L |   | 101  | 80 - 120    | 1   | 30        |
| Dichlorobromomethane        | 20.0        | 19.6        |                | ug/L |   | 98   | 71 - 120    | 1   | 30        |
| cis-1,3-Dichloropropene     | 20.0        | 19.2        |                | ug/L |   | 96   | 75 - 120    | 0   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 250         | 264         |                | ug/L |   | 106  | 62 - 133    | 1   | 30        |
| Toluene                     | 20.0        | 19.8        |                | ug/L |   | 99   | 80 - 120    | 1   | 30        |
| trans-1,3-Dichloropropene   | 20.0        | 19.8        |                | ug/L |   | 99   | 67 - 120    | 2   | 30        |
| 1,1,2-Trichloroethane       | 20.0        | 20.1        |                | ug/L |   | 100  | 80 - 120    | 1   | 30        |
| Tetrachloroethene           | 20.0        | 21.0        |                | ug/L |   | 105  | 80 - 120    | 1   | 30        |
| 1,3-Dichloropropane         | 20.0        | 20.3        |                | ug/L |   | 101  | 80 - 120    | 1   | 30        |
| Chlorodibromomethane        | 20.0        | 19.1        |                | ug/L |   | 95   | 71 - 120    | 3   | 30        |
| Ethylene Dibromide          | 20.0        | 20.3        |                | ug/L |   | 102  | 77 - 120    | 0   | 30        |
| Chlorobenzene               | 20.0        | 19.9        |                | ug/L |   | 100  | 80 - 120    | 2   | 30        |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 18.9        |                | ug/L |   | 94   | 79 - 120    | 3   | 30        |
| Ethylbenzene                | 20.0        | 19.5        |                | ug/L |   | 98   | 80 - 120    | 1   | 30        |
| m-Xylene & p-Xylene         | 40.0        | 38.7        |                | ug/L |   | 97   | 80 - 120    | 3   | 30        |
| o-Xylene                    | 20.0        | 18.9        |                | ug/L |   | 94   | 80 - 120    | 2   | 30        |
| Styrene                     | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 1   | 30        |
| Bromoform                   | 20.0        | 18.6        |                | ug/L |   | 93   | 51 - 120    | 3   | 30        |
| Isopropylbenzene            | 20.0        | 21.9        |                | ug/L |   | 109  | 80 - 120    | 2   | 30        |
| Bromobenzene                | 20.0        | 20.1        |                | ug/L |   | 101  | 80 - 120    | 1   | 30        |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 18.4        |                | ug/L |   | 92   | 72 - 120    | 1   | 30        |
| 1,2,3-Trichloropropane      | 20.0        | 19.3        |                | ug/L |   | 96   | 75 - 124    | 1   | 30        |
| N-Propylbenzene             | 20.0        | 19.9        |                | ug/L |   | 100  | 79 - 121    | 1   | 30        |
| 2-Chlorotoluene             | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 1   | 30        |
| 4-Chlorotoluene             | 20.0        | 19.8        |                | ug/L |   | 99   | 80 - 120    | 0   | 30        |
| tert-Butylbenzene           | 20.0        | 19.4        |                | ug/L |   | 97   | 78 - 120    | 2   | 30        |
| 1,2,4-Trimethylbenzene      | 20.0        | 19.0        |                | ug/L |   | 95   | 75 - 120    | 1   | 30        |
| sec-Butylbenzene            | 20.0        | 19.7        |                | ug/L |   | 98   | 77 - 120    | 3   | 30        |
| 4-Isopropyltoluene          | 20.0        | 19.2        |                | ug/L |   | 96   | 76 - 120    | 3   | 30        |
| 1,3-Dichlorobenzene         | 20.0        | 19.7        |                | ug/L |   | 99   | 80 - 120    | 2   | 30        |
| 1,4-Dichlorobenzene         | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 120    | 1   | 30        |
| n-Butylbenzene              | 20.0        | 19.7        |                | ug/L |   | 99   | 76 - 120    | 3   | 30        |
| 1,2-Dichlorobenzene         | 20.0        | 18.9        |                | ug/L |   | 95   | 80 - 120    | 2   | 30        |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 18.6        |                | ug/L |   | 93   | 60 - 120    | 1   | 30        |
| 1,2,4-Trichlorobenzene      | 20.0        | 18.7        |                | ug/L |   | 94   | 63 - 120    | 4   | 30        |
| Hexachlorobutadiene         | 20.0        | 22.5        |                | ug/L |   | 112  | 63 - 120    | 4   | 30        |
| Naphthalene                 | 20.0        | 17.1        |                | ug/L |   | 86   | 67 - 124    | 6   | 30        |
| 1,2,3-Trichlorobenzene      | 20.0        | 17.8        |                | ug/L |   | 89   | 66 - 120    | 6   | 30        |
| 1,3,5-Trimethylbenzene      | 20.0        | 19.2        |                | ug/L |   | 96   | 75 - 120    | 1   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr)            | 99             |                | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 103            |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 98             |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 103            |                | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-650229/7

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chloromethane               | ND        |              | 2.0 | 0.55 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Vinyl chloride              | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Bromomethane                | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chloroethane                | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Trichlorofluoromethane      | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1-Dichloroethene          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Carbon disulfide            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Acetone                     | ND        |              | 20  | 0.70 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Methylene Chloride          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Methyl tert-butyl ether     | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 2.0 | 0.70 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 2,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chlorobromomethane          | ND        |              | 5.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chloroform                  | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Carbon tetrachloride        | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1-Dichloropropene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Trichloroethene             | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Dibromomethane              | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Dichlorobromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 10  | 0.50 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Toluene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Tetrachloroethene           | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,3-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chlorodibromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Ethylene Dibromide          | ND        |              | 1.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Chlorobenzene               | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Ethylbenzene                | ND        |              | 1.0 | 0.40 | ug/L |   |          | 05/29/25 11:58 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| o-Xylene                    | ND        |              | 1.0 | 0.40 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Styrene                     | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Bromoform                   | ND        |              | 4.0 | 1.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| Isopropylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Bromobenzene                | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| N-Propylbenzene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-650229/7

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 2-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 4-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| tert-Butylbenzene           | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 5.0 | 1.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| sec-Butylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 4-Isopropyltoluene          | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 5.0 | 0.68 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| n-Butylbenzene              | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 5.0 | 0.20 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |
| Hexachlorobutadiene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| Naphthalene                 | ND        |              | 5.0 | 1.0  | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,2,3-Trichlorobenzene      | ND        |              | 5.0 | 0.40 | ug/L |   |          | 05/29/25 11:58 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 05/29/25 11:58 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 101          |              | 80 - 120 |          | 05/29/25 11:58 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 92           |              | 80 - 120 |          | 05/29/25 11:58 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99           |              | 80 - 120 |          | 05/29/25 11:58 | 1       |
| Dibromofluoromethane (Surr)  | 97           |              | 80 - 120 |          | 05/29/25 11:58 | 1       |

Lab Sample ID: LCS 410-650229/4

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane  | 20.0        | 19.3       |               | ug/L |   | 96   | 26 - 127    |
| Chloromethane            | 20.0        | 20.2       |               | ug/L |   | 101  | 39 - 134    |
| Vinyl chloride           | 20.0        | 20.3       |               | ug/L |   | 102  | 56 - 120    |
| Bromomethane             | 20.0        | 20.5       |               | ug/L |   | 103  | 53 - 128    |
| Chloroethane             | 20.0        | 20.4       |               | ug/L |   | 102  | 55 - 123    |
| Trichlorofluoromethane   | 20.0        | 19.6       |               | ug/L |   | 98   | 51 - 120    |
| 1,1-Dichloroethene       | 20.0        | 19.7       |               | ug/L |   | 99   | 80 - 131    |
| Carbon disulfide         | 20.0        | 14.4       |               | ug/L |   | 72   | 65 - 128    |
| Acetone                  | 250         | 226        |               | ug/L |   | 90   | 57 - 143    |
| Methylene Chloride       | 20.0        | 19.1       |               | ug/L |   | 95   | 80 - 120    |
| Methyl tert-butyl ether  | 20.0        | 18.1       |               | ug/L |   | 91   | 69 - 122    |
| trans-1,2-Dichloroethene | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 126    |
| 1,1-Dichloroethane       | 20.0        | 19.7       |               | ug/L |   | 99   | 80 - 120    |
| 2,2-Dichloropropane      | 20.0        | 18.3       |               | ug/L |   | 91   | 63 - 129    |
| cis-1,2-Dichloroethene   | 20.0        | 19.0       |               | ug/L |   | 95   | 80 - 125    |
| 2-Butanone (MEK)         | 250         | 241        |               | ug/L |   | 96   | 59 - 135    |
| Chlorobromomethane       | 20.0        | 19.3       |               | ug/L |   | 96   | 80 - 120    |
| Chloroform               | 20.0        | 19.1       |               | ug/L |   | 96   | 80 - 120    |
| 1,1,1-Trichloroethane    | 20.0        | 18.6       |               | ug/L |   | 93   | 73 - 120    |
| Carbon tetrachloride     | 20.0        | 18.5       |               | ug/L |   | 93   | 64 - 134    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-650229/4

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloropropene         | 20.0        | 18.3       |               | ug/L |   | 91   | 78 - 120    |
| Benzene                     | 20.0        | 19.3       |               | ug/L |   | 97   | 80 - 120    |
| 1,2-Dichloroethane          | 20.0        | 18.3       |               | ug/L |   | 91   | 73 - 124    |
| Trichloroethene             | 20.0        | 19.1       |               | ug/L |   | 96   | 80 - 120    |
| 1,2-Dichloropropane         | 20.0        | 19.0       |               | ug/L |   | 95   | 80 - 120    |
| Dibromomethane              | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 120    |
| Dichlorobromomethane        | 20.0        | 18.6       |               | ug/L |   | 93   | 71 - 120    |
| cis-1,3-Dichloropropene     | 20.0        | 18.0       |               | ug/L |   | 90   | 75 - 120    |
| 4-Methyl-2-pentanone (MIBK) | 250         | 232        |               | ug/L |   | 93   | 62 - 133    |
| Toluene                     | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120    |
| trans-1,3-Dichloropropene   | 20.0        | 18.5       |               | ug/L |   | 93   | 67 - 120    |
| 1,1,2-Trichloroethane       | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| Tetrachloroethene           | 20.0        | 19.3       |               | ug/L |   | 97   | 80 - 120    |
| 1,3-Dichloropropane         | 20.0        | 19.1       |               | ug/L |   | 95   | 80 - 120    |
| Chlorodibromomethane        | 20.0        | 18.8       |               | ug/L |   | 94   | 71 - 120    |
| Ethylene Dibromide          | 20.0        | 18.8       |               | ug/L |   | 94   | 77 - 120    |
| Chlorobenzene               | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 19.1       |               | ug/L |   | 95   | 79 - 120    |
| Ethylbenzene                | 20.0        | 19.4       |               | ug/L |   | 97   | 80 - 120    |
| m-Xylene & p-Xylene         | 40.0        | 39.9       |               | ug/L |   | 100  | 80 - 120    |
| o-Xylene                    | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120    |
| Styrene                     | 20.0        | 19.1       |               | ug/L |   | 96   | 80 - 120    |
| Bromoform                   | 20.0        | 18.3       |               | ug/L |   | 92   | 51 - 120    |
| Isopropylbenzene            | 20.0        | 22.9       |               | ug/L |   | 114  | 80 - 120    |
| Bromobenzene                | 20.0        | 19.0       |               | ug/L |   | 95   | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 19.3       |               | ug/L |   | 96   | 72 - 120    |
| 1,2,3-Trichloropropane      | 20.0        | 19.4       |               | ug/L |   | 97   | 75 - 124    |
| N-Propylbenzene             | 20.0        | 20.2       |               | ug/L |   | 101  | 79 - 121    |
| 2-Chlorotoluene             | 20.0        | 19.5       |               | ug/L |   | 97   | 80 - 120    |
| 4-Chlorotoluene             | 20.0        | 19.3       |               | ug/L |   | 96   | 80 - 120    |
| tert-Butylbenzene           | 20.0        | 20.0       |               | ug/L |   | 100  | 78 - 120    |
| 1,2,4-Trimethylbenzene      | 20.0        | 19.8       |               | ug/L |   | 99   | 75 - 120    |
| sec-Butylbenzene            | 20.0        | 20.7       |               | ug/L |   | 104  | 77 - 120    |
| 4-Isopropyltoluene          | 20.0        | 20.4       |               | ug/L |   | 102  | 76 - 120    |
| 1,3-Dichlorobenzene         | 20.0        | 19.5       |               | ug/L |   | 98   | 80 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 19.6       |               | ug/L |   | 98   | 80 - 120    |
| n-Butylbenzene              | 20.0        | 20.8       |               | ug/L |   | 104  | 76 - 120    |
| 1,2-Dichlorobenzene         | 20.0        | 19.9       |               | ug/L |   | 100  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 17.6       |               | ug/L |   | 88   | 60 - 120    |
| 1,2,4-Trichlorobenzene      | 20.0        | 20.5       |               | ug/L |   | 103  | 63 - 120    |
| Hexachlorobutadiene         | 20.0        | 20.9       |               | ug/L |   | 105  | 63 - 120    |
| Naphthalene                 | 20.0        | 19.9       |               | ug/L |   | 99   | 67 - 124    |
| 1,2,3-Trichlorobenzene      | 20.0        | 19.9       |               | ug/L |   | 100  | 66 - 120    |
| 1,3,5-Trimethylbenzene      | 20.0        | 20.1       |               | ug/L |   | 101  | 75 - 120    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 100           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 91            |               | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-650229/4

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 102       |           | 80 - 120 |
| Dibromofluoromethane (Surr) | 96        |           | 80 - 120 |

Lab Sample ID: LCSD 410-650229/5

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Dichlorodifluoromethane     | 20.0        | 19.4        |                | ug/L |   | 97   | 26 - 127    | 0   | 30        |
| Chloromethane               | 20.0        | 20.9        |                | ug/L |   | 104  | 39 - 134    | 4   | 30        |
| Vinyl chloride              | 20.0        | 20.3        |                | ug/L |   | 102  | 56 - 120    | 0   | 30        |
| Bromomethane                | 20.0        | 20.7        |                | ug/L |   | 104  | 53 - 128    | 1   | 30        |
| Chloroethane                | 20.0        | 20.6        |                | ug/L |   | 103  | 55 - 123    | 1   | 30        |
| Trichlorofluoromethane      | 20.0        | 19.6        |                | ug/L |   | 98   | 51 - 120    | 0   | 30        |
| 1,1-Dichloroethene          | 20.0        | 20.5        |                | ug/L |   | 102  | 80 - 131    | 4   | 30        |
| Carbon disulfide            | 20.0        | 14.3        |                | ug/L |   | 71   | 65 - 128    | 1   | 30        |
| Acetone                     | 250         | 228         |                | ug/L |   | 91   | 57 - 143    | 1   | 30        |
| Methylene Chloride          | 20.0        | 19.2        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| Methyl tert-butyl ether     | 20.0        | 18.2        |                | ug/L |   | 91   | 69 - 122    | 0   | 30        |
| trans-1,2-Dichloroethene    | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 126    | 3   | 30        |
| 1,1-Dichloroethane          | 20.0        | 20.2        |                | ug/L |   | 101  | 80 - 120    | 2   | 30        |
| 2,2-Dichloropropane         | 20.0        | 18.5        |                | ug/L |   | 92   | 63 - 129    | 1   | 30        |
| cis-1,2-Dichloroethene      | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 125    | 2   | 30        |
| 2-Butanone (MEK)            | 250         | 240         |                | ug/L |   | 96   | 59 - 135    | 0   | 30        |
| Chlorobromomethane          | 20.0        | 19.5        |                | ug/L |   | 98   | 80 - 120    | 1   | 30        |
| Chloroform                  | 20.0        | 19.3        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| 1,1,1-Trichloroethane       | 20.0        | 19.2        |                | ug/L |   | 96   | 73 - 120    | 3   | 30        |
| Carbon tetrachloride        | 20.0        | 18.9        |                | ug/L |   | 94   | 64 - 134    | 2   | 30        |
| 1,1-Dichloropropene         | 20.0        | 18.4        |                | ug/L |   | 92   | 78 - 120    | 1   | 30        |
| Benzene                     | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 0   | 30        |
| 1,2-Dichloroethane          | 20.0        | 18.3        |                | ug/L |   | 91   | 73 - 124    | 0   | 30        |
| Trichloroethene             | 20.0        | 19.3        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| 1,2-Dichloropropane         | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 120    | 3   | 30        |
| Dibromomethane              | 20.0        | 18.8        |                | ug/L |   | 94   | 80 - 120    | 2   | 30        |
| Dichlorobromomethane        | 20.0        | 18.9        |                | ug/L |   | 94   | 71 - 120    | 2   | 30        |
| cis-1,3-Dichloropropene     | 20.0        | 18.2        |                | ug/L |   | 91   | 75 - 120    | 1   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 250         | 232         |                | ug/L |   | 93   | 62 - 133    | 0   | 30        |
| Toluene                     | 20.0        | 19.7        |                | ug/L |   | 98   | 80 - 120    | 1   | 30        |
| trans-1,3-Dichloropropene   | 20.0        | 18.4        |                | ug/L |   | 92   | 67 - 120    | 1   | 30        |
| 1,1,2-Trichloroethane       | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 2   | 30        |
| Tetrachloroethene           | 20.0        | 19.3        |                | ug/L |   | 97   | 80 - 120    | 0   | 30        |
| 1,3-Dichloropropane         | 20.0        | 18.9        |                | ug/L |   | 94   | 80 - 120    | 1   | 30        |
| Chlorodibromomethane        | 20.0        | 18.9        |                | ug/L |   | 95   | 71 - 120    | 1   | 30        |
| Ethylene Dibromide          | 20.0        | 18.7        |                | ug/L |   | 94   | 77 - 120    | 1   | 30        |
| Chlorobenzene               | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 2   | 30        |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 19.2        |                | ug/L |   | 96   | 79 - 120    | 0   | 30        |
| Ethylbenzene                | 20.0        | 19.3        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| m-Xylene & p-Xylene         | 40.0        | 39.9        |                | ug/L |   | 100  | 80 - 120    | 0   | 30        |

Eurofins Seattle

# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-650229/5

Matrix: Water

Analysis Batch: 650229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| o-Xylene                    | 20.0        | 19.8        |                | ug/L |   | 99   | 80 - 120    | 0   | 30        |
| Styrene                     | 20.0        | 19.1        |                | ug/L |   | 95   | 80 - 120    | 0   | 30        |
| Bromoform                   | 20.0        | 18.4        |                | ug/L |   | 92   | 51 - 120    | 0   | 30        |
| Isopropylbenzene            | 20.0        | 22.5        |                | ug/L |   | 113  | 80 - 120    | 2   | 30        |
| Bromobenzene                | 20.0        | 18.6        |                | ug/L |   | 93   | 80 - 120    | 2   | 30        |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 19.0        |                | ug/L |   | 95   | 72 - 120    | 1   | 30        |
| 1,2,3-Trichloropropane      | 20.0        | 19.1        |                | ug/L |   | 95   | 75 - 124    | 2   | 30        |
| N-Propylbenzene             | 20.0        | 20.0        |                | ug/L |   | 100  | 79 - 121    | 1   | 30        |
| 2-Chlorotoluene             | 20.0        | 20.0        |                | ug/L |   | 100  | 80 - 120    | 3   | 30        |
| 4-Chlorotoluene             | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120    | 0   | 30        |
| tert-Butylbenzene           | 20.0        | 20.3        |                | ug/L |   | 102  | 78 - 120    | 1   | 30        |
| 1,2,4-Trimethylbenzene      | 20.0        | 19.7        |                | ug/L |   | 98   | 75 - 120    | 0   | 30        |
| sec-Butylbenzene            | 20.0        | 20.8        |                | ug/L |   | 104  | 77 - 120    | 0   | 30        |
| 4-Isopropyltoluene          | 20.0        | 20.3        |                | ug/L |   | 101  | 76 - 120    | 1   | 30        |
| 1,3-Dichlorobenzene         | 20.0        | 19.3        |                | ug/L |   | 96   | 80 - 120    | 1   | 30        |
| 1,4-Dichlorobenzene         | 20.0        | 19.2        |                | ug/L |   | 96   | 80 - 120    | 2   | 30        |
| n-Butylbenzene              | 20.0        | 20.6        |                | ug/L |   | 103  | 76 - 120    | 1   | 30        |
| 1,2-Dichlorobenzene         | 20.0        | 19.5        |                | ug/L |   | 97   | 80 - 120    | 2   | 30        |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 17.2        |                | ug/L |   | 86   | 60 - 120    | 2   | 30        |
| 1,2,4-Trichlorobenzene      | 20.0        | 19.7        |                | ug/L |   | 98   | 63 - 120    | 4   | 30        |
| Hexachlorobutadiene         | 20.0        | 21.0        |                | ug/L |   | 105  | 63 - 120    | 1   | 30        |
| Naphthalene                 | 20.0        | 19.4        |                | ug/L |   | 97   | 67 - 124    | 3   | 30        |
| 1,2,3-Trichlorobenzene      | 20.0        | 19.2        |                | ug/L |   | 96   | 66 - 120    | 4   | 30        |
| 1,3,5-Trimethylbenzene      | 20.0        | 20.0        |                | ug/L |   | 100  | 75 - 120    | 1   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr)            | 99             |                | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 92             |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100            |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 96             |                | 80 - 120 |

## Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 570-572969/8

Matrix: Water

Analysis Batch: 572969

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND        |              | 2.0 | 0.91 | ug/L |   |          | 05/19/25 15:21 | 1       |

Lab Sample ID: LCS 570-572969/9

Matrix: Water

Analysis Batch: 572969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| Perchlorate | 25.0        | 24.7       |               | ug/L |   | 99   | 85 - 115    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: LCSD 570-572969/10

Matrix: Water

Analysis Batch: 572969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 25.0        | 24.8        |                | ug/L |   | 99   | 85 - 115    | 0   | 15        |

Lab Sample ID: 580-150469-13 MS

Matrix: Water

Analysis Batch: 572969

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Perchlorate | ND            |                  | 25.0        | 24.7      |              | ug/L |   | 99   | 80 - 120    |     |           |

Lab Sample ID: 580-150469-13 MSD

Matrix: Water

Analysis Batch: 572969

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perchlorate | ND            |                  | 25.0        | 24.5       |               | ug/L |   | 98   | 80 - 120    | 1   | 15        |

Lab Sample ID: MB 570-573423/8

Matrix: Water

Analysis Batch: 573423

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND        |              | 2.0 | 0.91 | ug/L |   |          | 05/20/25 13:15 | 1       |

Lab Sample ID: LCS 570-573423/9

Matrix: Water

Analysis Batch: 573423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 25.0        | 24.2       |               | ug/L |   | 97   | 85 - 115    |     |           |

Lab Sample ID: LCSD 570-573423/10

Matrix: Water

Analysis Batch: 573423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 25.0        | 24.1        |                | ug/L |   | 96   | 85 - 115    | 0   | 15        |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-494239/43

Matrix: Water

Analysis Batch: 494239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | ND        |              | 1.5 | 0.43 | mg/L |   |          | 06/04/25 09:38 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-494239/80

Matrix: Water

Analysis Batch: 494239

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | ND           |                 | 1.5 | 0.43 | mg/L |   |          | 06/04/25 08:35 | 1       |

Lab Sample ID: LCS 580-494239/81

Matrix: Water

Analysis Batch: 494239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|----------------|
| Chloride | 50.0           | 52.0          |                  | mg/L |   | 104  | 90 - 110       |

Lab Sample ID: LCSD 580-494239/82

Matrix: Water

Analysis Batch: 494239

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| Chloride | 50.0           | 51.8           |                   | mg/L |   | 104  | 90 - 110       | 0   | 15           |

Lab Sample ID: 580-150469-13 MS

Matrix: Water

Analysis Batch: 494239

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Chloride | 8.6              | F1                  | 50.0           | 64.1         | F1              | mg/L |   | 111  | 90 - 110       |

Lab Sample ID: 580-150469-13 MSD

Matrix: Water

Analysis Batch: 494239

Client Sample ID: MWA-41-051325

Prep Type: Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Chloride | 8.6              | F1                  | 50.0           | 61.9          |                  | mg/L |   | 107  | 90 - 110       | 3   | 15           |

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Client Sample ID: TB-051225**

**Lab Sample ID: 580-150469-1**

**Date Collected: 05/12/25 00:01**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab  | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE | 05/21/25 21:51       |

**Client Sample ID: PA-08-051225**

**Lab Sample ID: 580-150469-2**

**Date Collected: 05/12/25 08:36**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 10              | 647331       | JS6E    | ELLE      | 05/22/25 03:07       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 16:23       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 494239       | FCG     | EET SEA   | 06/04/25 11:40       |

**Client Sample ID: PA-15i-051225**

**Lab Sample ID: 580-150469-3**

**Date Collected: 05/12/25 09:34**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 10              | 647331       | JS6E    | ELLE      | 05/22/25 03:27       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 17:05       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 11:52       |

**Client Sample ID: PA-09-051225**

**Lab Sample ID: 580-150469-4**

**Date Collected: 05/12/25 09:53**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/21/25 22:54       |
| Total/NA  | Analysis   | 314.0        | DL  | 5               | 572969       | M5Z3    | EET CAL 4 | 05/19/25 17:47       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 12:04       |

**Client Sample ID: PA-25d-051225**

**Lab Sample ID: 580-150469-5**

**Date Collected: 05/12/25 10:36**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/21/25 23:15       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 572969       | M5Z3    | EET CAL 4 | 05/19/25 18:29       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 12:16       |

**Client Sample ID: PA-24d-051225**

**Lab Sample ID: 580-150469-6**

**Date Collected: 05/12/25 11:48**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 10              | 650229       | UJML    | ELLE      | 05/29/25 18:11       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 19:10       |

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# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Client Sample ID: PA-24d-051225**

**Lab Sample ID: 580-150469-6**

**Date Collected: 05/12/25 11:48**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 300.0        |     | 100             | 494239       | FCG     | EET SEA | 06/04/25 12:52       |

**Client Sample ID: PA-16i-051225**

**Lab Sample ID: 580-150469-7**

**Date Collected: 05/12/25 11:07**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 5               | 647331       | JS6E    | ELLE      | 05/22/25 02:03       |
| Total/NA  | Analysis   | 314.0        | DL  | 10              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 19:52       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 13:04       |

**Client Sample ID: PA-26d-051225**

**Lab Sample ID: 580-150469-8**

**Date Collected: 05/12/25 14:08**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/21/25 23:37       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 572969       | M5Z3    | EET CAL 4 | 05/19/25 20:34       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 13:15       |

**Client Sample ID: MWA-82-051325**

**Lab Sample ID: 580-150469-9**

**Date Collected: 05/13/25 06:12**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/21/25 23:57       |
| Total/NA  | Analysis   | 314.0        | DL  | 10              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 21:16       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 13:27       |

**Client Sample ID: PA-44i-051325**

**Lab Sample ID: 580-150469-10**

**Date Collected: 05/13/25 07:26**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 5               | 647331       | JS6E    | ELLE      | 05/22/25 02:24       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/19/25 21:57       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 13:39       |

**Client Sample ID: RB-01-051325**

**Lab Sample ID: 580-150469-11**

**Date Collected: 05/13/25 07:45**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/21/25 22:12       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 572969       | M5Z3    | EET CAL 4 | 05/19/25 22:39       |

Eurofins Seattle

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Client Sample ID: RB-01-051325**

**Lab Sample ID: 580-150469-11**

**Date Collected: 05/13/25 07:45**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA | 06/04/25 13:51       |

**Client Sample ID: MWA-81i-051325**

**Lab Sample ID: 580-150469-12**

**Date Collected: 05/13/25 08:28**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/22/25 00:18       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 572969       | M5Z3    | EET CAL 4 | 05/20/25 00:02       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 14:27       |

**Client Sample ID: MWA-41-051325**

**Lab Sample ID: 580-150469-13**

**Date Collected: 05/13/25 09:03**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/22/25 00:39       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 572969       | M5Z3    | EET CAL 4 | 05/20/25 00:44       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 09:11       |

**Client Sample ID: MWA-31i(d)-051325**

**Lab Sample ID: 580-150469-14**

**Date Collected: 05/13/25 10:11**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 650136       | DVW2    | ELLE      | 05/29/25 15:51       |
| Total/NA  | Analysis   | 314.0        | DL  | 5000            | 573423       | YO8L    | EET CAL 4 | 05/20/25 16:02       |
| Total/NA  | Analysis   | 300.0        |     | 400             | 494239       | FCG     | EET SEA   | 06/04/25 16:54       |

**Client Sample ID: PA-22d-051325**

**Lab Sample ID: 580-150469-15**

**Date Collected: 05/13/25 11:30**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 650136       | DVW2    | ELLE      | 05/29/25 16:11       |
| Total/NA  | Analysis   | 314.0        | DL  | 1000            | 573423       | YO8L    | EET CAL 4 | 05/20/25 16:23       |
| Total/NA  | Analysis   | 300.0        |     | 100             | 494239       | FCG     | EET SEA   | 06/04/25 14:51       |

**Client Sample ID: PA-23d-051325**

**Lab Sample ID: 580-150469-16**

**Date Collected: 05/13/25 07:54**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 650136       | DVW2    | ELLE      | 05/29/25 16:32       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/20/25 04:13       |

Eurofins Seattle

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Client Sample ID: PA-23d-051325**

**Lab Sample ID: 580-150469-16**

**Date Collected: 05/13/25 07:54**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 300.0        |     | 400             | 494239       | FCG     | EET SEA | 06/04/25 17:06       |

**Client Sample ID: PA-03-051325**

**Lab Sample ID: 580-150469-17**

**Date Collected: 05/13/25 09:20**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 647331       | JS6E    | ELLE      | 05/22/25 01:42       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 572969       | M5Z3    | EET CAL 4 | 05/20/25 04:55       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 15:15       |

**Client Sample ID: PA-17iR-051325**

**Lab Sample ID: 580-150469-18**

**Date Collected: 05/13/25 11:03**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 10              | 647331       | JS6E    | ELLE      | 05/22/25 03:48       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 572969       | M5Z3    | EET CAL 4 | 05/20/25 05:36       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 15:51       |

**Client Sample ID: Dup-01-051325**

**Lab Sample ID: 580-150469-19**

**Date Collected: 05/13/25 12:00**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 10              | 647331       | JS6E    | ELLE      | 05/22/25 04:09       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 572969       | M5Z3    | EET CAL 4 | 05/20/25 06:18       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494239       | FCG     | EET SEA   | 06/04/25 16:02       |

**Client Sample ID: PA-27d-051325**

**Lab Sample ID: 580-150469-20**

**Date Collected: 05/13/25 12:53**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 5               | 650136       | DVW2    | ELLE      | 05/29/25 16:52       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 572969       | M5Z3    | EET CAL 4 | 05/20/25 07:00       |
| Total/NA  | Analysis   | 300.0        |     | 10              | 494239       | FCG     | EET SEA   | 06/04/25 16:26       |

**Client Sample ID: PA-04-051325**

**Lab Sample ID: 580-150469-21**

**Date Collected: 05/13/25 14:31**

**Matrix: Water**

**Date Received: 05/14/25 12:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 5               | 647331       | JS6E    | ELLE      | 05/22/25 02:46       |
| Total/NA  | Analysis   | 314.0        | DL  | 10              | 572969       | M5Z3    | EET CAL 4 | 05/20/25 07:41       |

Eurofins Seattle

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

**Client Sample ID: PA-04-051325**  
**Date Collected: 05/13/25 14:31**  
**Date Received: 05/14/25 12:30**

**Lab Sample ID: 580-150469-21**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 300.0        |     | 5               | 494239       | FCG     | EET SEA | 06/04/25 10:49       |

**Laboratory References:**  
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494  
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310  
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Oregon    | NELAP   | 4167                  | 07-07-25        |

## Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority    | Program                                 | Identification Number | Expiration Date |
|--------------|-----------------------------------------|-----------------------|-----------------|
| A2LA         | Dept. of Defense ELAP                   | 7296.01               | 11-30-26        |
| Arizona      | State                                   | AZ0830                | 11-16-25        |
| Arkansas DEQ | State                                   | 88-01672              | 07-02-25        |
| California   | Los Angeles County Sanitation Districts | 9257304               | 07-31-26        |
| California   | SCAQMD LAP                              | 17LA0919              | 11-30-25        |
| California   | State                                   | 3082                  | 07-31-25        |
| Kansas       | NELAP                                   | E-10420               | 07-31-25        |
| Nevada       | State                                   | CA00111               | 07-31-25        |
| Oregon       | NELAP                                   | 4175                  | 02-02-26        |
| USDA         | US Federal Programs                     | 525-23-159-97150      | 06-08-26        |
| Utah         | NELAP                                   | CA00111               | 02-28-26        |
| Washington   | State                                   | C916                  | 10-11-25        |

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 0001.01               | 11-30-26        |
| A2LA                              | Dept. of Energy       | 0001.01               | 11-30-26        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-26        |
| Alabama                           | State                 | 43200                 | 01-31-26        |
| Alaska                            | State                 | PA00009               | 06-30-25        |
| Alaska (UST)                      | State                 | 17-027                | 12-30-26        |
| Arizona                           | State                 | AZ0780                | 03-12-26        |
| Arkansas DEQ                      | State                 | 88-00660              | 05-29-25        |
| California                        | State                 | 2792                  | 01-31-26        |
| Colorado                          | State                 | PA00009               | 06-30-25        |
| Connecticut                       | State                 | PH-0746               | 06-30-25        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-26        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-26        |
| Florida                           | NELAP                 | E87997                | 06-30-25        |
| Georgia (DW)                      | State                 | C048                  | 01-31-26        |
| Illinois                          | NELAP                 | 200027                | 01-31-26        |
| Iowa                              | State                 | 361                   | 03-01-26        |
| Kansas                            | NELAP                 | E-10151               | 10-31-25        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-25        |
| Kentucky (UST)                    | State                 | 0001.01               | 11-30-26        |
| Kentucky (WW)                     | State                 | KY90088               | 12-31-25        |
| Louisiana (All)                   | NELAP                 | 02055                 | 06-30-25        |
| Maine                             | State                 | 2019012               | 03-12-27        |
| Maryland                          | State                 | 100                   | 06-30-25        |
| Massachusetts                     | State                 | M-PA009               | 06-30-26        |
| Michigan                          | State                 | 9930                  | 01-31-26        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-25        |

Eurofins Seattle

# Accreditation/Certification Summary

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                                                       | Program             | Identification Number | Expiration Date |
|-----------------------------------------------------------------|---------------------|-----------------------|-----------------|
| Mississippi                                                     | State               | 023                   | 01-31-26        |
| Missouri                                                        | State               | 450                   | 01-31-28        |
| Montana (DW)                                                    | State               | 0098                  | 01-01-26        |
| Nebraska                                                        | State               | NE-OS-32-17           | 01-31-26        |
| New Hampshire                                                   | NELAP               | 2730                  | 06-03-25        |
| New Jersey                                                      | NELAP               | PA011                 | 06-30-25        |
| New York                                                        | NELAP               | 10670                 | 04-01-26        |
| North Carolina (DW)                                             | State               | 42705                 | 07-31-25        |
| North Carolina (WW/SW)                                          | State               | 521                   | 12-31-25        |
| North Dakota                                                    | State               | R-205                 | 01-31-24 *      |
| Oklahoma                                                        | NELAP               | 9804                  | 08-31-25        |
| Oregon                                                          | NELAP               | PA200001              | 09-11-25        |
| Pennsylvania                                                    | NELAP               | 36-00037              | 01-31-26        |
| Quebec Ministry of Environment and Fight against Climate Change | PALA                | 507                   | 09-16-29        |
| Rhode Island                                                    | State               | LAO00338              | 12-30-25        |
| South Carolina                                                  | State               | 89002                 | 01-31-26        |
| Tennessee                                                       | State               | 02838                 | 01-31-26        |
| Texas                                                           | NELAP               | T104704194-23-46      | 06-10-25        |
| USDA                                                            | US Federal Programs | 525-22-298-19481      | 10-25-25        |
| Vermont                                                         | State               | VT - 36037            | 10-28-25        |
| Virginia                                                        | NELAP               | 460182                | 06-14-26        |
| Washington                                                      | State               | C457                  | 04-11-26        |
| West Virginia (DW)                                              | State               | 9906 C                | 03-31-26        |
| West Virginia DEP                                               | State               | 055                   | 06-15-25        |
| Wyoming                                                         | State               | 8TMS-L                | 01-31-26        |
| Wyoming (UST)                                                   | A2LA                | 0001.01               | 11-30-26        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Seattle

# Sample Summary

Client: ERM-West  
Project/Site: Arkema - Q2 2025 Groundwater Event

Job ID: 580-150469-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 580-150469-1  | TB-051225         | Water  | 05/12/25 00:01 | 05/14/25 12:30 |
| 580-150469-2  | PA-08-051225      | Water  | 05/12/25 08:36 | 05/14/25 12:30 |
| 580-150469-3  | PA-15i-051225     | Water  | 05/12/25 09:34 | 05/14/25 12:30 |
| 580-150469-4  | PA-09-051225      | Water  | 05/12/25 09:53 | 05/14/25 12:30 |
| 580-150469-5  | PA-25d-051225     | Water  | 05/12/25 10:36 | 05/14/25 12:30 |
| 580-150469-6  | PA-24d-051225     | Water  | 05/12/25 11:48 | 05/14/25 12:30 |
| 580-150469-7  | PA-16i-051225     | Water  | 05/12/25 11:07 | 05/14/25 12:30 |
| 580-150469-8  | PA-26d-051225     | Water  | 05/12/25 14:08 | 05/14/25 12:30 |
| 580-150469-9  | MWA-82-051325     | Water  | 05/13/25 06:12 | 05/14/25 12:30 |
| 580-150469-10 | PA-44i-051325     | Water  | 05/13/25 07:26 | 05/14/25 12:30 |
| 580-150469-11 | RB-01-051325      | Water  | 05/13/25 07:45 | 05/14/25 12:30 |
| 580-150469-12 | MWA-81i-051325    | Water  | 05/13/25 08:28 | 05/14/25 12:30 |
| 580-150469-13 | MWA-41-051325     | Water  | 05/13/25 09:03 | 05/14/25 12:30 |
| 580-150469-14 | MWA-31i(d)-051325 | Water  | 05/13/25 10:11 | 05/14/25 12:30 |
| 580-150469-15 | PA-22d-051325     | Water  | 05/13/25 11:30 | 05/14/25 12:30 |
| 580-150469-16 | PA-23d-051325     | Water  | 05/13/25 07:54 | 05/14/25 12:30 |
| 580-150469-17 | PA-03-051325      | Water  | 05/13/25 09:20 | 05/14/25 12:30 |
| 580-150469-18 | PA-17iR-051325    | Water  | 05/13/25 11:03 | 05/14/25 12:30 |
| 580-150469-19 | Dup-01-051325     | Water  | 05/13/25 12:00 | 05/14/25 12:30 |
| 580-150469-20 | PA-27d-051325     | Water  | 05/13/25 12:53 | 05/14/25 12:30 |
| 580-150469-21 | PA-04-051325      | Water  | 05/13/25 14:31 | 05/14/25 12:30 |

Eurofins Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

### Chain of Custody Record

eurofins  
Environmental Testing

|                                                                                                                                                                                                                        |  |                                                     |                                      |                              |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|--------------------------------------|------------------------------|--------------------------------------------|
| <b>Client Information</b>                                                                                                                                                                                              |  | Sample #                                            | Lab #                                |                              | COC No.                                    |
| Client Contact: Paul Van Nessel                                                                                                                                                                                        |  | 57/PE                                               | Capatas, Criselda                    |                              | 580-6763-2087.2                            |
| Company: ERM-West                                                                                                                                                                                                      |  | Phone:                                              | E-Mail: Criselda.Capatas@eu.fins.com |                              | Page: 2 of 2                               |
| Address: 1050 SW 6th Avenue Suite 1650                                                                                                                                                                                 |  | Due Date Requested:                                 | Carrier Tracking No.:                |                              | Page: 2 of 2                               |
| City: Portland                                                                                                                                                                                                         |  | TAT Requested (days):                               | State of Origin:                     |                              | Lab #                                      |
| State, zip: OR, 97204                                                                                                                                                                                                  |  | Compliance Project: A Yes A No                      | Analysis Requested                   |                              | Preservation Codes:<br>A - HCL<br>N - None |
| Phone:                                                                                                                                                                                                                 |  | ISO #                                               | MS/MSD                               |                              | Other:                                     |
| Email: paul.vannessel@erm.com                                                                                                                                                                                          |  | WO #                                                | MS/MSD                               |                              | 580-150469 COC                             |
| Project Name: Arkenia - Q1 2025 Groundwater Event                                                                                                                                                                      |  | Project #                                           | MS/MSD                               |                              |                                            |
| Site: S50W#                                                                                                                                                                                                            |  | SSOW#                                               | MS/MSD                               |                              |                                            |
| Sample Identification                                                                                                                                                                                                  |  | Sample Date                                         | Sample Time                          | Sample Type (G-Comp, G-grad) | Matrix (Inert, Swab, Overstain, Aqueous)   |
| MW-A-81-051325                                                                                                                                                                                                         |  | 5/13/25                                             | 0828                                 | G                            | Water                                      |
| MW-A-41-051325                                                                                                                                                                                                         |  | 0903                                                |                                      |                              | Water                                      |
| MW-A-31-051325                                                                                                                                                                                                         |  | 1011                                                |                                      |                              | Water                                      |
| PA-22d-051325                                                                                                                                                                                                          |  | 1130                                                |                                      |                              | Water                                      |
| PA-23d-051325                                                                                                                                                                                                          |  | 0754                                                |                                      |                              | Water                                      |
| PA-03-051325                                                                                                                                                                                                           |  | 0920                                                |                                      |                              | Water                                      |
| PA-17-R-051325                                                                                                                                                                                                         |  | 1103                                                |                                      |                              | Water                                      |
| Dup-01-051325                                                                                                                                                                                                          |  | 1200                                                |                                      |                              | Water                                      |
| PA-27d-051325                                                                                                                                                                                                          |  | 1253                                                |                                      |                              | Water                                      |
| PA-04-051325                                                                                                                                                                                                           |  | 1431                                                |                                      |                              | Water                                      |
| Possible Hazard Identification                                                                                                                                                                                         |  | Field Filtered Sample (Yes or No)                   |                                      |                              |                                            |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | Perform MS/MSD (Yes or No)                          |                                      |                              |                                            |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                 |  | 8260D - (MOD) Volatiles, standard list              |                                      |                              |                                            |
| Empty Kit Relinquished by:                                                                                                                                                                                             |  | 8260D_LL - (MOD) Volatiles, standard list, low leve |                                      |                              |                                            |
| Relinquished by: Muvic                                                                                                                                                                                                 |  | 314.0 - Perchlorate                                 |                                      |                              |                                            |
| Date/Time: 5/14/25 1230                                                                                                                                                                                                |  | 300.0_28D - (MOD) Local Method                      |                                      |                              |                                            |
| Company: M.C.                                                                                                                                                                                                          |  | Total Number of containers                          |                                      |                              |                                            |
| Custody Seals Intact: A Yes A No                                                                                                                                                                                       |  | Special Instructions/Note:                          |                                      |                              |                                            |
| Custody Seal No.:                                                                                                                                                                                                      |  | MS/MSD                                              |                                      |                              |                                            |
| Received by: Muvic                                                                                                                                                                                                     |  | MS/MSD                                              |                                      |                              |                                            |
| Date/Time: 5/14/25 1005                                                                                                                                                                                                |  | MS/MSD                                              |                                      |                              |                                            |
| Company: M.C.                                                                                                                                                                                                          |  | MS/MSD                                              |                                      |                              |                                            |
| Received by: Muvic                                                                                                                                                                                                     |  | MS/MSD                                              |                                      |                              |                                            |
| Date/Time: 5/14/25 1230                                                                                                                                                                                                |  | MS/MSD                                              |                                      |                              |                                            |
| Company: M.C.                                                                                                                                                                                                          |  | MS/MSD                                              |                                      |                              |                                            |
| Cooled (Temperature) °C and Other Remarks: 0.4 / 1.5                                                                                                                                                                   |  | MS/MSD                                              |                                      |                              |                                            |

### Environment Testing

ORIGIN ID: BNOA (503) 906-9200  
COOLER RETURN  
EUROFINS PORTLAND  
9725 SW COMMERCE CIR  
SUITE A2  
WILSONVILLE, OR 97070  
UNITED STATES US

SHIP DATE: 14  
ACTWGT: 37.00  
CAD: 08939327

BILL THIRD PA

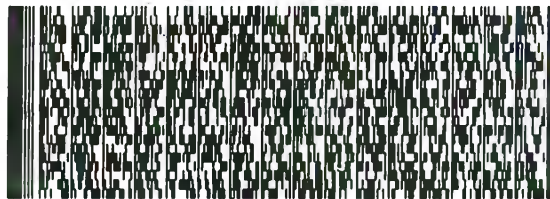
TO **SAMPLE CONTROL**  
**EUROFINS CALSCIENCE, LLC**  
**2841 DOW AVENUE**  
**SUITE 100**  
**TUSTIN CA 92780**

(714) 895-5494

REF:

THU:

DEPT:



TRK# 4254 2767 6404  
0201

THU - 15  
PRIORITY

**WZ DTHA**

Custody Seal

272121

DATE

SIGNATURE



580-150469 Waybill

eurofins

En  
Tes

## Eurofins Seattle

5755 8th Street East

Tacoma, WA 98424

Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                              |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--------------------|-------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------------------|-----------------------------------|---------------------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Sampler: N/A                 |                    | Lab PM: Caparas, Criselda                             |                                                                 | Carrier Tracking No(s): N/A                                                                                                          |                                   | COC No: 580-144745.1                                            |                   |                                                   |                                   |                                       |  |
| Client Contact: Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Phone: N/A                   |                    | E-Mail: Criselda.Caparas@et.eurofinsus.com            |                                                                 | State of Origin: Oregon                                                                                                              |                                   | Page: Page 1 of 3                                               |                   |                                                   |                                   |                                       |  |
| Company: Eurofins Lancaster Laboratories Environm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                              |                    | Accreditations Required (See note): NELAP - Oregon    |                                                                 |                                                                                                                                      |                                   | Job #: 580-150469-1                                             |                   |                                                   |                                   |                                       |  |
| Address: 2425 New Holland Pike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Due Date Requested: 6/3/2025 |                    | <b>Analysis Requested</b>                             |                                                                 |                                                                                                                                      |                                   |                                                                 |                   | <b>Preservation Codes:</b>                        |                                   |                                       |  |
| City: Lancaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | TAT Requested (days): N/A    |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| State, Zip: PA, 17601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Phone: 717-656-2300(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | PO #: N/A                    |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Email: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | WO #: N/A                    |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Project Name: Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Project #: 58016290          |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Site: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | SSOW#: N/A                   |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   | Other: N/A                                        |                                   |                                       |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>Sample Date</b>           | <b>Sample Time</b> | <b>Sample Type (C=comp, G=grab)</b>                   | <b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b> | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>9250C LU/5030C (MOD) Volatiles, standard list, low level</b> | <b>PRE_SCREEN</b> | <b>9250D/5030C (MOD) Volatiles, standard list</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b>     |  |
| Preservation Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                              |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| TB-051225 (580-150469-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/12/25                      | 00:01 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 2                                 |                                       |  |
| PA-08-051225 (580-150469-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 5/12/25                      | 08:36 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-15i-051225 (580-150469-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/12/25                      | 09:34 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-09-051225 (580-150469-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 5/12/25                      | 09:53 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-25d-051225 (580-150469-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/12/25                      | 10:36 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-24d-051225 (580-150469-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/12/25                      | 11:48 Pacific      | G                                                     | Water                                                           |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| PA-16i-051225 (580-150469-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/12/25                      | 11:07 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-26d-051225 (580-150469-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/12/25                      | 14:08 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| MWA-82-051325 (580-150469-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/13/25                      | 06:12 Pacific      | G                                                     | Water                                                           |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| <b>Note:</b> Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |                              |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |                    |                                                       |                                                                 | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |                    |                                                       |                                                                 | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                              |                    |                                                       |                                                                 | Primary Deliverable Rank: 2                                                                                                          |                                   |                                                                 |                   |                                                   |                                   | Special Instructions/QC Requirements: |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                              |                    | Date:                                                 |                                                                 | Time:                                                                                                                                |                                   | Method of Shipment:                                             |                   |                                                   |                                   |                                       |  |
| Relinquished by: <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                              |                    | Date/Time: 5/19/25 1600                               |                                                                 | Company: EETN                                                                                                                        |                                   | Received by: <i>[Signature]</i>                                 |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                              |                    | Date/Time:                                            |                                                                 | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                              |                    | Date/Time:                                            |                                                                 | Company:                                                                                                                             |                                   | Received by: <i>[Signature]</i>                                 |                   | Date/Time: 5/20/25 1045                           |                                   | Company: EETN                         |  |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Custody Seal No.:            |                    | Cooler Temperature(s) °C and Other Remarks: 23.7-23.7 |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |

## Eurofins Seattle

5755 8th Street East

Tacoma, WA 98424

Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                                 |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------|--------------------|-------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------------------|-----------------------------------|---------------------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | Sampler:<br>N/A                 |                    | Lab PM:<br>Caparas, Criselda                          |                                                                 | Carrier Tracking No(s):<br>N/A                                                                                                       |                                   | COC No:<br>580-144745.2                                         |                   |                                                   |                                   |                                       |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | Phone:<br>N/A                   |                    | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com         |                                                                 | State of Origin:<br>Oregon                                                                                                           |                                   | Page:<br>Page 2 of 3                                            |                   |                                                   |                                   |                                       |  |
| Company:<br>Eurofins Lancaster Laboratories Environm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                 |                    | Accreditations Required (See note):<br>NELAP - Oregon |                                                                 |                                                                                                                                      |                                   | Job #:<br>580-150469-1                                          |                   |                                                   |                                   |                                       |  |
| Address:<br>2425 New Holland Pike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | Due Date Requested:<br>6/3/2025 |                    | <b>Analysis Requested</b>                             |                                                                 |                                                                                                                                      |                                   | Preservation Codes:                                             |                   |                                                   |                                   |                                       |  |
| City:<br>Lancaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | TAT Requested (days):<br>N/A    |                    |                                                       |                                                                 |                                                                                                                                      |                                   | Other:                                                          |                   |                                                   |                                   |                                       |  |
| State, Zip:<br>PA, 17601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | PO #:<br>N/A                    |                    |                                                       |                                                                 |                                                                                                                                      |                                   | N/A                                                             |                   |                                                   |                                   |                                       |  |
| Phone:<br>717-656-2300(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | WO #:<br>N/A                    |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         | Project #:<br>58016290          |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | SSOW#:<br>N/A                   |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                 |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <b>Sample Date</b>              | <b>Sample Time</b> | <b>Sample Type (C=Comp, G=grab)</b>                   | <b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b> | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>8260C_LLJ5030C (MOD) Volatiles, standard list, low level</b> | <b>PRE_SCREEN</b> | <b>8260D/5030C (MOD) Volatiles, standard list</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b>     |  |
| Preservation Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                 |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| PA-44i-051325 (580-150469-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5/13/25 | 07:26 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    | X                                 |                                                                 |                   |                                                   | 3                                 |                                       |  |
| RB-01-051325 (580-150469-11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5/13/25 | 07:45 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    | X                                 |                                                                 |                   |                                                   | 3                                 |                                       |  |
| MWA-81i-051325 (580-150469-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5/13/25 | 08:28 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    | X                                 |                                                                 |                   |                                                   | 3                                 |                                       |  |
| MWA-41-051325 (580-150469-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5/13/25 | 09:03 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    | X                                 |                                                                 |                   |                                                   | 3                                 |                                       |  |
| MWA-41-051325 (580-150469-13MS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5/13/25 | 09:03 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    |                                   |                                                                 |                   |                                                   | 3                                 |                                       |  |
| MWA-41-051325 (580-150469-13MSD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5/13/25 | 09:03 Pacific                   | G                  | Water                                                 |                                                                 | X                                                                                                                                    |                                   |                                                                 |                   |                                                   | 3                                 |                                       |  |
| MWA-31(d)-051325 (580-150469-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5/13/25 | 10:11 Pacific                   | G                  | Water                                                 |                                                                 |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-22d-051325 (580-150469-15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5/13/25 | 11:30 Pacific                   | G                  | Water                                                 |                                                                 |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| PA-23d-051325 (580-150469-16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5/13/25 | 07:54 Pacific                   | G                  | Water                                                 |                                                                 |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 3                                 |                                       |  |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |         |                                 |                    |                                                       |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                 |                    |                                                       |                                                                 | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                           |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                 |                    |                                                       |                                                                 | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                 |                    |                                                       |                                                                 | Primary Deliverable Rank: 2                                                                                                          |                                   |                                                                 |                   |                                                   |                                   | Special Instructions/QC Requirements: |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                 |                    | Date:                                                 |                                                                 | Time:                                                                                                                                |                                   | Method of Shipment:                                             |                   |                                                   |                                   |                                       |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                 |                    | Date/Time:                                            |                                                                 | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                 |                    | Date/Time:                                            |                                                                 | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                 |                    | Date/Time:                                            |                                                                 | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | Custody Seal No.:               |                    | Cooler Temperature(s) °C and Other Remarks:           |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                 |                    | 23.7 - c3-7                                           |                                                                 |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |

## Chain of Custody Record

[illegible]

## Eurofins Seattle

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

## Chain of Custody Record



eurofins

Env

Loc: 580

150469

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--------------------|-------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|--|----------------------------|--|---------------------------------------|--|---------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Sampler:<br>N/A                 |                    | Lab PM:<br>Caparas, Criselda                          |                                                                     | Carrier Tracking No(s):<br>N/A                                                                                                       |   | COC No:<br>580-144597.1 |  |                            |  |                                       |  |         |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Phone:<br>N/A                   |                    | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com         |                                                                     | State of Origin:<br>Oregon                                                                                                           |   | Page:<br>Page 1 of 3    |  |                            |  |                                       |  |         |  |
| Company:<br>Eurofins Environment Testing Southwest,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                 |                    | Accreditations Required (See note):<br>NELAP - Oregon |                                                                     |                                                                                                                                      |   | Job #:<br>580-150469-1  |  |                            |  |                                       |  |         |  |
| Address:<br>2841 Dow Avenue, Suite 100,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Due Date Requested:<br>6/3/2025 |                    | <b>Analysis Requested</b>                             |                                                                     |                                                                                                                                      |   |                         |  | Preservation Codes:<br>-   |  |                                       |  |         |  |
| City:<br>Tustin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | TAT Requested (days):<br>N/A    |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| State, Zip:<br>CA, 92780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| Phone:<br>714-895-5494(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | PO #:<br>N/A                    |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | WO #:<br>N/A                    |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Project #:<br>58016290          |                    | Field Filtered Sample (Yes or No)                     |                                                                     | Perform MS/MSD (Yes or No)                                                                                                           |   | 314.0/ Perchlorate      |  | Total Number of containers |  |                                       |  |         |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | SSOW#:<br>N/A                   |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  | Other:<br>N/A              |  |                                       |  |         |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>Sample Date</b>              | <b>Sample Time</b> | <b>Sample Type<br/>(C=Comp, G=grab)</b>               | <b>Matrix<br/>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b> |                                                                                                                                      |   |                         |  |                            |  | <b>Special Instr</b>                  |  |         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                    | Preservation Code:                                    |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| PA-08-051225 (580-150469-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 5/12/25                         | 08:36 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-15i-051225 (580-150469-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/12/25                         | 09:34 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-09-051225 (580-150469-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 5/12/25                         | 09:53 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-25d-051225 (580-150469-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/12/25                         | 10:36 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-24d-051225 (580-150469-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/12/25                         | 11:48 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-16i-051225 (580-150469-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/12/25                         | 11:07 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-26d-051225 (580-150469-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/12/25                         | 14:08 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| MWA-82-051325 (580-150469-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/13/25                         | 06:12 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| PA-44i-051325 (580-150469-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/13/25                         | 07:26 Pacific      | G                                                     | Water                                                               |                                                                                                                                      | X |                         |  |                            |  | 1                                     |  |         |  |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    |                                                       |                                                                     | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |   |                         |  |                            |  |                                       |  |         |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                 |                    |                                                       |                                                                     | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |                         |  |                            |  |                                       |  |         |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                 |                    |                                                       |                                                                     | Primary Deliverable Rank: 2                                                                                                          |   |                         |  |                            |  | Special Instructions/QC Requirements: |  |         |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 |                    | Date:                                                 |                                                                     | Time:                                                                                                                                |   | Method of Shipment:     |  |                            |  |                                       |  |         |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time:                                            |                                                                     | Company                                                                                                                              |   | Received by:            |  |                            |  | Date/Time:                            |  | Company |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time:                                            |                                                                     | Company                                                                                                                              |   | Received by:            |  |                            |  | Date/Time:                            |  | Company |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time:                                            |                                                                     | Company                                                                                                                              |   | Received by:            |  |                            |  | Date/Time:                            |  | Company |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Custody Seal No.:               |                    | Cooler Temperature(s) °C and Other Remarks:           |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 |                    | 1-6 / 2-6 IP292                                       |                                                                     |                                                                                                                                      |   |                         |  |                            |  |                                       |  |         |  |

## Eurofins Seattle

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                 |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------|--|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|-----------------------------------------------------------------|------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | Sampler:<br>N/A                 |  | Lab PM:<br>Caparas, Criselda                          |                                                                                                                                      | Carrier Tracking No(s):<br>N/A      |  | COC No:<br>580-144597.2                                         |                        |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | Phone:<br>N/A                   |  | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com         |                                                                                                                                      | State of Origin:<br>Oregon          |  | Page:<br>Page 2 of 3                                            |                        |  |
| Company:<br>Eurofins Environment Testing Southwest,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                 |  | Accreditations Required (See note):<br>NELAP - Oregon |                                                                                                                                      |                                     |  |                                                                 | Job #:<br>580-150469-1 |  |
| Address:<br>2841 Dow Avenue, Suite 100,<br>City:<br>Tustin<br>State, Zip:<br>CA, 92780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  | Due Date Requested:<br>6/3/2025 |  | <b>Analysis Requested</b>                             |                                                                                                                                      |                                     |  |                                                                 | Preservation Codes:    |  |
| PO #:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | TAT Requested (days):<br>N/A    |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
| Phone:<br>714-895-5494(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | WO #:<br>N/A                    |  | Field Filtered Sample (Yes or No)                     |                                                                                                                                      | Perform MS/MSD (Yes or No)          |  | Total Number of containers                                      |                        |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | Project #:<br>58016290          |  | 314.0/ Perchlorate                                    |                                                                                                                                      |                                     |  | Other:<br>N/A                                                   |                        |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | SSOW#:<br>N/A                   |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | <b>Sample Date</b>              |  | <b>Sample Time</b>                                    |                                                                                                                                      | <b>Sample Type (C=Comp, G=grab)</b> |  | <b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b> |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                 |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                 |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
| RB-01-051325 (580-150469-11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | 5/13/25                         |  | 07:45 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| MWA-81i-051325 (580-150469-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | 5/13/25                         |  | 08:28 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| MWA-41-051325 (580-150469-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 5/13/25                         |  | 09:03 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| MWA-41-051325 (580-150469-13MS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 5/13/25                         |  | 09:03 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| MWA-41-051325 (580-150469-13MSD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 5/13/25                         |  | 09:03 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| MWA-31i(d)-051325 (580-150469-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | 5/13/25                         |  | 10:11 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| PA-22d-051325 (580-150469-15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 5/13/25                         |  | 11:30 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| PA-23d-051325 (580-150469-16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 5/13/25                         |  | 07:54 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| PA-03-051325 (580-150469-17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | 5/13/25                         |  | 09:20 Pacific                                         |                                                                                                                                      | G                                   |  | Water                                                           |                        |  |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |  |                                 |  |                                                       |                                                                                                                                      |                                     |  |                                                                 |                        |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                 |  |                                                       | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |                                     |  |                                                                 |                        |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                                 |  |                                                       | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                     |  |                                                                 |                        |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                 |  |                                                       | Special Instructions/QC Requirements:                                                                                                |                                     |  |                                                                 |                        |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                 |  |                                                       | Date:                                                                                                                                |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Time:                                                                                                                                |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Method of Shipment:                                                                                                                  |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Date/Time:                                                                                                                           |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Company:                                                                                                                             |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Received by:                                                                                                                         |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Date/Time:                                                                                                                           |                                     |  |                                                                 |                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                 |  |                                                       | Company:                                                                                                                             |                                     |  |                                                                 |                        |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                 |  |                                                       | Cooler Temperature(s) °C and Other Remarks:                                                                                          |                                     |  |                                                                 |                        |  |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                 |  |                                                       | Custody Seal No.:                                                                                                                    |                                     |  |                                                                 |                        |  |

 eurofins

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## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150469-1

**Login Number: 150469**

**List Source: Eurofins Seattle**

**List Number: 1**

**Creator: O'Connell, Jason I**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150469-1

**Login Number: 150469**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 05/15/25 07:31 PM**

| Question                                                                                 | Answer | Comment                            |
|------------------------------------------------------------------------------------------|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |                                    |
| The cooler's custody seal, if present, is intact.                                        | True   | Seal present with no number.       |
| Sample custody seals, if present, are intact.                                            | N/A    |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                    |
| Samples were received on ice.                                                            | True   |                                    |
| Cooler Temperature is acceptable.                                                        | True   |                                    |
| Cooler Temperature is recorded.                                                          | True   | 2.6                                |
| COC is present.                                                                          | True   |                                    |
| COC is filled out in ink and legible.                                                    | True   |                                    |
| COC is filled out with all pertinent information.                                        | True   |                                    |
| Is the Field Sampler's name present on COC?                                              | N/A    | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC.                  | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                    |
| Sample containers have legible labels.                                                   | True   |                                    |
| Containers are not broken or leaking.                                                    | True   |                                    |
| Sample collection date/times are provided.                                               | True   |                                    |
| Appropriate sample containers are used.                                                  | True   |                                    |
| Sample bottles are completely filled.                                                    | True   |                                    |
| Sample Preservation Verified.                                                            | True   |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                    |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                    |
| Multiphasic samples are not present.                                                     | True   |                                    |
| Samples do not require splitting or compositing.                                         | True   |                                    |
| Residual Chlorine Checked.                                                               | N/A    |                                    |

## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150469-1

**Login Number: 150469**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**

**List Number: 3**

**List Creation: 05/20/25 01:08 PM**

**Creator: Ballard, Megan**

| Question                                                                                                | Answer | Comment                                                               |
|---------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------|
| The cooler's custody seal is intact.                                                                    | True   |                                                                       |
| The cooler or samples do not appear to have been compromised or tampered with.                          | True   |                                                                       |
| Samples were received on ice.                                                                           | True   |                                                                       |
| Cooler Temperature acceptable, where thermal pres is required ( $\leq 6^{\circ}\text{C}$ , not frozen). | True   |                                                                       |
| Cooler Temperature is recorded.                                                                         | True   |                                                                       |
| WV: Container Temp acceptable, where thermal pres is required ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                                                       |
| WV: Container Temperature is recorded.                                                                  | N/A    |                                                                       |
| COC is present.                                                                                         | True   |                                                                       |
| COC is filled out in ink and legible.                                                                   | True   |                                                                       |
| COC is filled out with all pertinent information.                                                       | True   |                                                                       |
| There are no discrepancies between the containers received and the COC.                                 | True   |                                                                       |
| Sample containers have legible labels.                                                                  | True   |                                                                       |
| Containers are not broken or leaking.                                                                   | True   |                                                                       |
| Sample collection date/times are provided.                                                              | True   |                                                                       |
| Appropriate sample containers are used.                                                                 | True   |                                                                       |
| Sample bottles are completely filled.                                                                   | True   |                                                                       |
| There is sufficient vol. for all requested analyses.                                                    | True   |                                                                       |
| Is the Field Sampler's name present on COC?                                                             | False  | Received project as a subcontract.                                    |
| Sample custody seals are intact.                                                                        | True   |                                                                       |
| VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?                   | False  | Headspace greater than 6mm in diameter in some but not all containers |

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Avery Soplata  
ERM-West  
1050 SW 6th Avenue  
Suite 1650  
Portland, Oregon 97204

Generated 6/17/2025 5:58:42 PM Revision 1

## JOB DESCRIPTION

Arkema - Q1 2025 Groundwater Event

## JOB NUMBER

580-150519-1

# Eurofins Seattle

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



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# Case Narrative

Client: ERM-West  
Project: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

**Job ID: 580-150519-1**

**Eurofins Seattle**

## Job Narrative 580-150519-1

### REVISION

The report being provided is a revision of the original report sent on 6/6/2025. The report (revision 1) is being revised due to Client request to revised report and add explanation on the narrative for the TRip Blank.

#### Report revision history

Revision 0 - 6/6/2025 - Reason - Client is requesting to modified narrative.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### **Receipt**

The samples were received on 5/15/2025 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

### **GC/MS VOA**

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-651462 recovered above the upper control limit for Acetone and 4-Methyl-2-pentanone (MIBK). Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The following samples were analyzed outside of analytical holding time: RB-02-051425 (580-150519-2), PA-20d-051425 (580-150519-3), MWA-58d-051425 (580-150519-4), Dup-02-051425 (580-150519-5), MWA-56d-051425 (580-150519-6), MWA-56d-051425 (580-150519-6[MSJ]), MWA-56d-051425 (580-150519-6[MSD]), PA-21d-051425 (580-150519-7), PA-19d-051425 (580-150519-8), PA-18d-051425 (580-150519-10), MWA-63-051425 (580-150519-11) and PA-30d-051525 (580-150519-15). Due to analyst error.

Method 8260D: The following samples were analyzed outside of analytical holding time: PA-21d-051425 (580-150519-7), PA-19d-051425 (580-150519-8) and MWA-63-051425 (580-150519-11). Due to analyst error.

Method 8260C\_LL: The continuing calibration verification (CCV) associated with batch 410-651594 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C\_LL: The continuing calibration verification (CCV) associated with batch 410-651594 recovered above the upper control limit for 2-Butanone (MEK), n-Butylbenzene, 1,2,4-Trichlorobenzene and Hexachlorobutadiene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C\_LL: The following samples were analyzed outside of analytical holding time: PA-31-051425 (580-150519-12) and MWA-11i(d)-051425 (580-150519-14). Due to analyst error.

Method 8260C\_LL: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: PA-10i-051425 (580-150519-9) and PA-32i-051425 (580-150519-13). Elevated reporting limits (RLs) are provided.

Method 8260C\_LL: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): PA-32i-051425 (580-150519-13). The sample container was received with headspace.

Method 8260C\_LL: The following samples were analyzed outside of analytical holding time: PA-10i-051425 (580-150519-9) and

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## Case Narrative

Client: ERM-West  
Project: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

### Job ID: 580-150519-1 (Continued)

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PA-32i-051425 (580-150519-13). Due to analyst error.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

Method 314.0: Due to the high concentration of Perchlorate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 570-573426 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 314.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 570-573426 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Perchlorate in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 314.0: The following samples were diluted due to the nature of the sample matrix: PA-10i-051425 (580-150519-9), PA-18d-051425 (580-150519-10), MWA-63-051425 (580-150519-11), PA-31-051425 (580-150519-12), PA-32i-051425 (580-150519-13) and PA-30d-051525 (580-150519-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### General Chemistry

Method 300.0\_28D: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 580-494327 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Definitions/Glossary

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *+        | LCS and/or LCSD is outside acceptance limits, high biased.                                                                                                |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                                                            |
| H         | Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.                                             |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |

### HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| E         | Result exceeded calibration range.                                                                                                                        |

### General Chemistry

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: TB-051425A

Lab Sample ID: 580-150519-1

Date Collected: 05/14/25 00:01

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chloromethane               | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Vinyl chloride              | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Bromomethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chloroethane                | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Carbon disulfide            | ND     |           | 1.0  | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Acetone                     | ND     |           | 5.0  | 1.5   | ug/L |   |          | 06/02/25 14:14 | 1       |
| Methylene Chloride          | ND     |           | 0.50 | 0.20  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Methyl tert-butyl ether     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 2-Butanone (MEK)            | ND     |           | 5.0  | 1.0   | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chlorobromomethane          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chloroform                  | ND     |           | 0.50 | 0.090 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Carbon tetrachloride        | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Benzene                     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Trichloroethene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Dibromomethane              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Dichlorobromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 5.0  | 1.0   | ug/L |   |          | 06/02/25 14:14 | 1       |
| Toluene                     | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Tetrachloroethene           | ND     |           | 0.50 | 0.20  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chlorodibromomethane        | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Ethylene Dibromide          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Chlorobenzene               | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Ethylbenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| m-Xylene & p-Xylene         | ND     |           | 0.50 | 0.20  | ug/L |   |          | 06/02/25 14:14 | 1       |
| o-Xylene                    | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Styrene                     | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Bromoform                   | ND     |           | 1.0  | 0.30  | ug/L |   |          | 06/02/25 14:14 | 1       |
| Isopropylbenzene            | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Bromobenzene                | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 1.0  | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| N-Propylbenzene             | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: TB-051425A

Lab Sample ID: 580-150519-1

Date Collected: 05/14/25 00:01

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| tert-Butylbenzene           | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| sec-Butylbenzene            | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| n-Butylbenzene              | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.50 | 0.070 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.50 | 0.080 | ug/L |   |          | 06/02/25 14:14 | 1       |
| Naphthalene                 | ND     |           | 0.50 | 0.10  | ug/L |   |          | 06/02/25 14:14 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.50 | 0.15  | ug/L |   |          | 06/02/25 14:14 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 06/02/25 14:14 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 06/02/25 14:14 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 80 - 120 |          | 06/02/25 14:14 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/02/25 14:14 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: RB-02-051425

Lab Sample ID: 580-150519-2

Date Collected: 05/14/25 06:30

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Acetone                     | 2.0    | J H       | 20  | 0.70 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Methylene Chloride          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chloroform                  | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Tetrachloroethene           | ND     | *+ H      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 12:01 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: RB-02-051425

Lab Sample ID: 580-150519-2

Date Collected: 05/14/25 06:30

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 12:01 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 12:01 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 06/02/25 12:01 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 06/02/25 12:01 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 06/02/25 12:01 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 |          | 06/02/25 12:01 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/20/25 21:11 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | ND     |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 05:04 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-20d-051425

Lab Sample ID: 580-150519-3

Date Collected: 05/14/25 07:19

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Acetone                     | 1.1    | J H       | 20  | 0.70 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Methylene Chloride          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chloroform                  | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Tetrachloroethene           | ND     | *+ H      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Chlorobenzene               | 4.1    | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 13:23 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-20d-051425

Lab Sample ID: 580-150519-3

Date Collected: 05/14/25 07:19

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 13:23 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 06/02/25 13:23 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 06/02/25 13:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 80 - 120 |          | 06/02/25 13:23 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 06/02/25 13:23 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/20/25 21:53 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 460    |           | 15 | 4.3 | mg/L |   |          | 06/05/25 05:40 | 10      |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-58d-051425

Lab Sample ID: 580-150519-4

Date Collected: 05/14/25 08:11

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Acetone                     | 1.3    | J H       | 20  | 0.70 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Methylene Chloride          | 1.7    | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chloroform                  | 230    | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Benzene                     | 0.31   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Trichloroethene             | 0.33   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Dibromomethane              | 0.30   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Dichlorobromomethane        | 1.3    | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Tetrachloroethene           | ND     | *+ H      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chlorodibromomethane        | 0.51   | J H       | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 13:43 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-58d-051425

Lab Sample ID: 580-150519-4

Date Collected: 05/14/25 08:11

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 13:43 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 13:43 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 06/02/25 13:43 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 06/02/25 13:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 06/02/25 13:43 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |          | 06/02/25 13:43 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Perchlorate | 48000  |           | 4000 | 1800 | ug/L |   |          | 05/21/25 16:03 | 2000    |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 18000  |           | 750 | 220 | mg/L |   |          | 06/05/25 06:52 | 500     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: Dup-02-051425

Lab Sample ID: 580-150519-5

Date Collected: 05/14/25 08:12

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Acetone                     | ND     | H         | 20  | 0.70 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Methylene Chloride          | 1.7    | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chloroform                  | 240    | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Benzene                     | 0.31   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Dichlorobromomethane        | 1.3    | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Tetrachloroethene           | ND     | *+ H      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chlorodibromomethane        | 0.51   | J H       | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 14:03 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: Dup-02-051425

Lab Sample ID: 580-150519-5

Date Collected: 05/14/25 08:12

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 14:03 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:03 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 06/02/25 14:03 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 06/02/25 14:03 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |          | 06/02/25 14:03 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 06/02/25 14:03 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Perchlorate | 47000  |           | 4000 | 1800 | ug/L |   |          | 05/21/25 16:24 | 2000    |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 18000  |           | 750 | 220 | mg/L |   |          | 06/05/25 07:27 | 500     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-56d-051425

Lab Sample ID: 580-150519-6

Date Collected: 05/14/25 09:01

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result      | Qualifier     | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|---------------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Chloromethane               | ND          | H             | 2.0 | 0.55 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Vinyl chloride              | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Bromomethane                | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Chloroethane                | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Trichlorofluoromethane      | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1-Dichloroethene          | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Carbon disulfide            | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Acetone                     | ND          | H             | 20  | 0.70 | ug/L |   |          | 06/02/25 14:23 | 1       |
| <b>Methylene Chloride</b>   | <b>0.68</b> | <b>J H</b>    | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Methyl tert-butyl ether     | ND          | H             | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| trans-1,2-Dichloroethene    | ND          | H F1          | 2.0 | 0.70 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1-Dichloroethane          | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 2,2-Dichloropropane         | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| cis-1,2-Dichloroethene      | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 2-Butanone (MEK)            | ND          | H             | 10  | 1.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| Chlorobromomethane          | ND          | H             | 5.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| <b>Chloroform</b>           | <b>160</b>  | <b>H</b>      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1,1-Trichloroethane       | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Carbon tetrachloride        | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1-Dichloropropene         | ND          | H F1          | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Benzene                     | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2-Dichloroethane          | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Trichloroethene             | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2-Dichloropropane         | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Dibromomethane              | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| <b>Dichlorobromomethane</b> | <b>0.48</b> | <b>J H F1</b> | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| cis-1,3-Dichloropropene     | ND          | H             | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND          | H             | 10  | 0.50 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Toluene                     | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| trans-1,3-Dichloropropene   | ND          | H             | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1,2-Trichloroethane       | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Tetrachloroethene           | ND          | *+ H F1       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,3-Dichloropropane         | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Chlorodibromomethane        | ND          | H F1          | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Ethylene Dibromide          | ND          | H             | 1.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Chlorobenzene               | ND          | H F1          | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Ethylbenzene                | ND          | H             | 1.0 | 0.40 | ug/L |   |          | 06/02/25 14:23 | 1       |
| m-Xylene & p-Xylene         | ND          | H             | 5.0 | 2.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| o-Xylene                    | ND          | H             | 1.0 | 0.40 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Styrene                     | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Bromoform                   | ND          | H             | 4.0 | 1.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| Isopropylbenzene            | ND          | *+ H F1       | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Bromobenzene                | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND          | H             | 1.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2,3-Trichloropropane      | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| N-Propylbenzene             | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 2-Chlorotoluene             | ND          | H             | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-56d-051425

Lab Sample ID: 580-150519-6

Date Collected: 05/14/25 09:01

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |
| Hexachlorobutadiene         | ND     | *+ H F1   | 5.0 | 2.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 14:23 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 14:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 06/02/25 14:23 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/02/25 14:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 80 - 120 |          | 06/02/25 14:23 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 80 - 120 |          | 06/02/25 14:23 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | 13000  | E         | 80  | 36  | ug/L |   |          | 05/20/25 23:57 | 40      |
| Perchlorate | 12000  |           | 800 | 360 | ug/L |   |          | 05/21/25 16:45 | 400     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 14000  |           | 750 | 220 | mg/L |   |          | 06/05/25 09:15 | 500     |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-21d-051425

Lab Sample ID: 580-150519-7

Date Collected: 05/14/25 10:23

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result     | Qualifier  | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|------------|-----|-----|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Chloromethane               | ND         | H          | 40  | 11  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Vinyl chloride              | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Bromomethane                | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| <b>Chloroethane</b>         | <b>9.5</b> | <b>J H</b> | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Trichlorofluoromethane      | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1-Dichloroethene          | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Carbon disulfide            | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Acetone                     | ND         | H          | 400 | 14  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Methylene Chloride          | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Methyl tert-butyl ether     | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| trans-1,2-Dichloroethene    | ND         | H          | 40  | 14  | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1-Dichloroethane          | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 2,2-Dichloropropane         | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| cis-1,2-Dichloroethene      | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 2-Butanone (MEK)            | ND         | H          | 200 | 20  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Chlorobromomethane          | ND         | H          | 100 | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| <b>Chloroform</b>           | <b>11</b>  | <b>J H</b> | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1,1-Trichloroethane       | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Carbon tetrachloride        | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1-Dichloropropene         | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Benzene                     | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2-Dichloroethane          | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| <b>Trichloroethene</b>      | <b>6.9</b> | <b>J H</b> | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2-Dichloropropane         | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Dibromomethane              | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Dichlorobromomethane        | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| cis-1,3-Dichloropropene     | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 4-Methyl-2-pentanone (MIBK) | ND         | H          | 200 | 10  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Toluene                     | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| trans-1,3-Dichloropropene   | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1,2-Trichloroethane       | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,3-Dichloropropane         | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Chlorodibromomethane        | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Ethylene Dibromide          | ND         | H          | 20  | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1,1,2-Tetrachloroethane   | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Ethylbenzene                | ND         | H          | 20  | 8.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| m-Xylene & p-Xylene         | ND         | H          | 100 | 40  | ug/L |   |          | 06/02/25 20:07 | 20      |
| o-Xylene                    | ND         | H          | 20  | 8.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Styrene                     | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Bromoform                   | ND         | H          | 80  | 20  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Isopropylbenzene            | ND         | H *        | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Bromobenzene                | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,1,2,2-Tetrachloroethane   | ND         | H          | 20  | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2,3-Trichloropropane      | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| N-Propylbenzene             | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 2-Chlorotoluene             | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 4-Chlorotoluene             | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| tert-Butylbenzene           | ND         | H          | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-21d-051425

Lab Sample ID: 580-150519-7

Date Collected: 05/14/25 10:23

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene      | ND     | H         | 100 | 20  | ug/L |   |          | 06/02/25 20:07 | 20      |
| sec-Butylbenzene            | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 4-Isopropyltoluene          | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,3-Dichlorobenzene         | ND     | H         | 100 | 14  | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,4-Dichlorobenzene         | 20     | J H       | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| n-Butylbenzene              | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2-Dichlorobenzene         | 7.4    | J H       | 100 | 4.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2,4-Trichlorobenzene      | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| Hexachlorobutadiene         | ND     | H *       | 100 | 40  | ug/L |   |          | 06/02/25 20:07 | 20      |
| Naphthalene                 | ND     | H         | 100 | 20  | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,2,3-Trichlorobenzene      | ND     | H         | 100 | 8.0 | ug/L |   |          | 06/02/25 20:07 | 20      |
| 1,3,5-Trimethylbenzene      | ND     | H         | 100 | 6.0 | ug/L |   |          | 06/02/25 20:07 | 20      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 06/02/25 20:07 | 20      |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |          | 06/02/25 20:07 | 20      |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 80 - 120 |          | 06/02/25 20:07 | 20      |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 06/02/25 20:07 | 20      |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

| Analyte       | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chlorobenzene | 41000  | H         | 200 | 60  | ug/L |   |          | 06/02/25 20:27 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 06/02/25 20:27 | 200     |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 06/02/25 20:27 | 200     |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 06/02/25 20:27 | 200     |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 06/02/25 20:27 | 200     |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

| Analyte           | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Tetrachloroethene | 6.7    | J H       | 20 | 6.0 | ug/L |   |          | 06/03/25 20:47 | 20      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 06/03/25 20:47 | 20      |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 80 - 120 |          | 06/03/25 20:47 | 20      |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 80 - 120 |          | 06/03/25 20:47 | 20      |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |          | 06/03/25 20:47 | 20      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | 1100   |           | 80 | 36  | ug/L |   |          | 05/21/25 17:47 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 370    |           | 7.5 | 2.2 | mg/L |   |          | 06/05/25 10:02 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-19d-051425

Lab Sample ID: 580-150519-8

Date Collected: 05/14/25 12:37

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Chloromethane               | ND     | H         | 20  | 5.5 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Vinyl chloride              | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Bromomethane                | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Chloroethane                | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Trichlorofluoromethane      | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1-Dichloroethene          | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Carbon disulfide            | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Acetone                     | ND     | H         | 200 | 7.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Methylene Chloride          | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Methyl tert-butyl ether     | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| trans-1,2-Dichloroethene    | ND     | H         | 20  | 7.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1-Dichloroethane          | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 2,2-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| cis-1,2-Dichloroethene      | 18     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 2-Butanone (MEK)            | ND     | H         | 100 | 10  | ug/L |   |          | 06/02/25 19:26 | 10      |
| Chlorobromomethane          | ND     | H         | 50  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Chloroform                  | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1,1-Trichloroethane       | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Carbon tetrachloride        | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1-Dichloropropene         | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Benzene                     | 36     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2-Dichloroethane          | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Trichloroethene             | 30     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Dibromomethane              | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Dichlorobromomethane        | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| cis-1,3-Dichloropropene     | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 100 | 5.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Toluene                     | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| trans-1,3-Dichloropropene   | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1,2-Trichloroethane       | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,3-Dichloropropane         | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Chlorodibromomethane        | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Ethylene Dibromide          | ND     | H         | 10  | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Ethylbenzene                | ND     | H         | 10  | 4.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| m-Xylene & p-Xylene         | ND     | H         | 50  | 20  | ug/L |   |          | 06/02/25 19:26 | 10      |
| o-Xylene                    | ND     | H         | 10  | 4.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Styrene                     | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Bromoform                   | ND     | H         | 40  | 10  | ug/L |   |          | 06/02/25 19:26 | 10      |
| Isopropylbenzene            | ND     | *+ H      | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Bromobenzene                | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 10  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2,3-Trichloropropane      | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| N-Propylbenzene             | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 2-Chlorotoluene             | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 4-Chlorotoluene             | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| tert-Butylbenzene           | ND     | H         | 50  | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-19d-051425

Lab Sample ID: 580-150519-8

Date Collected: 05/14/25 12:37

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,2,4-Trimethylbenzene      | ND     | H         | 50 | 10  | ug/L |   |          | 06/02/25 19:26 | 10      |
| sec-Butylbenzene            | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 4-Isopropyltoluene          | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,3-Dichlorobenzene         | ND     | H         | 50 | 6.8 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,4-Dichlorobenzene         | 3.8    | J H       | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| n-Butylbenzene              | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2-Dichlorobenzene         | ND     | H         | 50 | 2.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2,4-Trichlorobenzene      | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| Hexachlorobutadiene         | ND     | *+ H      | 50 | 20  | ug/L |   |          | 06/02/25 19:26 | 10      |
| Naphthalene                 | ND     | H         | 50 | 10  | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,2,3-Trichlorobenzene      | ND     | H         | 50 | 4.0 | ug/L |   |          | 06/02/25 19:26 | 10      |
| 1,3,5-Trimethylbenzene      | ND     | H         | 50 | 3.0 | ug/L |   |          | 06/02/25 19:26 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 06/02/25 19:26 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 80 - 120 |          | 06/02/25 19:26 | 10      |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 80 - 120 |          | 06/02/25 19:26 | 10      |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 06/02/25 19:26 | 10      |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

| Analyte       | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chlorobenzene | 13000  | H         | 100 | 30  | ug/L |   |          | 06/02/25 19:47 | 100     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 06/02/25 19:47 | 100     |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 06/02/25 19:47 | 100     |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 06/02/25 19:47 | 100     |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 06/02/25 19:47 | 100     |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

| Analyte           | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Tetrachloroethene | 13     | H         | 10 | 3.0 | ug/L |   |          | 06/03/25 21:08 | 10      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 06/03/25 21:08 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/03/25 21:08 | 10      |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 80 - 120 |          | 06/03/25 21:08 | 10      |
| Dibromofluoromethane (Surr)  | 101       |           | 80 - 120 |          | 06/03/25 21:08 | 10      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | 100    |           | 80 | 36  | ug/L |   |          | 05/21/25 18:08 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 250    |           | 38 | 11  | mg/L |   |          | 06/05/25 11:04 | 25      |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-10i-051425

Lab Sample ID: 580-150519-9

Date Collected: 05/14/25 07:26

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chloromethane               | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Vinyl chloride              | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Bromomethane                | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chloroethane                | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Trichlorofluoromethane      | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1-Dichloroethene          | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Acetone                     | ND     | H         | 25  | 7.5  | ug/L |   |          | 06/03/25 07:38 | 5       |
| Methylene Chloride          | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:38 | 5       |
| Methyl tert-butyl ether     | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1-Dichloroethane          | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 2,2-Dichloropropane         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| cis-1,2-Dichloroethene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 2-Butanone (MEK)            | ND     | H         | 25  | 5.0  | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chlorobromomethane          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chloroform                  | ND     | H         | 2.5 | 0.45 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1,1-Trichloroethane       | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Carbon tetrachloride        | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1-Dichloropropene         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Benzene                     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2-Dichloroethane          | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Trichloroethene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2-Dichloropropane         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Dibromomethane              | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Dichlorobromomethane        | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| cis-1,3-Dichloropropene     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 25  | 5.0  | ug/L |   |          | 06/03/25 07:38 | 5       |
| Toluene                     | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| trans-1,3-Dichloropropene   | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1,2-Trichloroethane       | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Tetrachloroethene           | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,3-Dichloropropane         | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chlorodibromomethane        | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Ethylene Dibromide          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Chlorobenzene               | 0.82   | J H       | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Ethylbenzene                | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| m-Xylene & p-Xylene         | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:38 | 5       |
| o-Xylene                    | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Styrene                     | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Bromoform                   | ND     | H         | 5.0 | 1.5  | ug/L |   |          | 06/03/25 07:38 | 5       |
| Isopropylbenzene            | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Bromobenzene                | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| N-Propylbenzene             | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 2-Chlorotoluene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-10i-051425

Lab Sample ID: 580-150519-9

Date Collected: 05/14/25 07:26

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| tert-Butylbenzene           | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| sec-Butylbenzene            | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 4-Isopropyltoluene          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,3-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,4-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| n-Butylbenzene              | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Hexachlorobutadiene         | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:38 | 5       |
| Naphthalene                 | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:38 | 5       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 2.5 | 0.75 | ug/L |   |          | 06/03/25 07:38 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 06/03/25 07:38 | 5       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 06/03/25 07:38 | 5       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 80 - 120 |          | 06/03/25 07:38 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 80 - 120 |          | 06/03/25 07:38 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 80 | 36  | ug/L |   |          | 05/21/25 04:05 | 40      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 36     |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 11:40 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-18d-051425

Lab Sample ID: 580-150519-10

Date Collected: 05/14/25 08:39

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Acetone                     | 1.6    | J H       | 20  | 0.70 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Methylene Chloride          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chloroform                  | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Trichloroethene             | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Tetrachloroethene           | ND     | *+ H      | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 15:23 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |

Eurofins Seattle

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-18d-051425

Lab Sample ID: 580-150519-10

Date Collected: 05/14/25 08:39

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 15:23 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 06/02/25 15:23 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 80 - 120 |          | 06/02/25 15:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 06/02/25 15:23 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 80 - 120 |          | 06/02/25 15:23 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/21/25 04:47 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 53     |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 11:52 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-63-051425

Lab Sample ID: 580-150519-11

Date Collected: 05/14/25 10:34

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chloromethane               | ND     | H         | 2.0 | 0.55 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Vinyl chloride              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Bromomethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chloroethane                | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Trichlorofluoromethane      | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Acetone                     | 5.8    | J H       | 20  | 0.70 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Methylene Chloride          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.0 | 0.70 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| cis-1,2-Dichloroethene      | 0.60   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 10  | 1.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chlorobromomethane          | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chloroform                  | 40     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Carbon tetrachloride        | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Benzene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Trichloroethene             | 0.75   | J H       | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Dibromomethane              | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Dichlorobromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 10  | 0.50 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Toluene                     | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chlorodibromomethane        | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Ethylene Dibromide          | ND     | H         | 1.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Chlorobenzene               | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Ethylbenzene                | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 15:44 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 5.0 | 2.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| o-Xylene                    | ND     | H         | 1.0 | 0.40 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Styrene                     | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Bromoform                   | ND     | H         | 4.0 | 1.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| Isopropylbenzene            | ND     | *+ H      | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Bromobenzene                | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 1.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| N-Propylbenzene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 2-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 4-Chlorotoluene             | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-63-051425

Lab Sample ID: 580-150519-11

Date Collected: 05/14/25 10:34

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| tert-Butylbenzene           | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| sec-Butylbenzene            | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 5.0 | 0.68 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| n-Butylbenzene              | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 5.0 | 0.20 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |
| Hexachlorobutadiene         | ND     | *+ H      | 5.0 | 2.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| Naphthalene                 | ND     | H         | 5.0 | 1.0  | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 5.0 | 0.40 | ug/L |   |          | 06/02/25 15:44 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 5.0 | 0.30 | ug/L |   |          | 06/02/25 15:44 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 06/02/25 15:44 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |          | 06/02/25 15:44 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 80 - 120 |          | 06/02/25 15:44 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 06/02/25 15:44 | 1       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

| Analyte           | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Tetrachloroethene | 4.4    | H         | 1.0 | 0.30 | ug/L |   |          | 06/03/25 15:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 06/03/25 15:20 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 06/03/25 15:20 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |          | 06/03/25 15:20 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 06/03/25 15:20 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 10 | 4.5 | ug/L |   |          | 05/21/25 05:28 | 5       |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 4.7    |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 12:04 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-31-051425

Lab Sample ID: 580-150519-12

Date Collected: 05/14/25 11:43

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chloromethane               | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Vinyl chloride              | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Bromomethane                | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chloroethane                | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Trichlorofluoromethane      | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1-Dichloroethene          | 0.68   | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Carbon disulfide            | ND     | H         | 1.0  | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Acetone                     | ND     | H         | 5.0  | 1.5   | ug/L |   |          | 06/02/25 20:27 | 1       |
| Methylene Chloride          | ND     | H         | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1-Dichloroethane          | 0.12   | J H       | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| cis-1,2-Dichloroethene      | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 5.0  | 1.0   | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chlorobromomethane          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chloroform                  | 0.096  | J H       | 0.50 | 0.090 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1,1-Trichloroethane       | 0.19   | J H       | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Carbon tetrachloride        | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Benzene                     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Trichloroethene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Dibromomethane              | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Dichlorobromomethane        | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 5.0  | 1.0   | ug/L |   |          | 06/02/25 20:27 | 1       |
| Toluene                     | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Tetrachloroethene           | ND     | H         | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chlorodibromomethane        | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Ethylene Dibromide          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Chlorobenzene               | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Ethylbenzene                | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:27 | 1       |
| o-Xylene                    | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Styrene                     | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Bromoform                   | ND     | H         | 1.0  | 0.30  | ug/L |   |          | 06/02/25 20:27 | 1       |
| Isopropylbenzene            | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Bromobenzene                | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 1.0  | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| N-Propylbenzene             | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 2-Chlorotoluene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-31-051425

Lab Sample ID: 580-150519-12

Date Collected: 05/14/25 11:43

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| tert-Butylbenzene           | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| sec-Butylbenzene            | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| n-Butylbenzene              | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Hexachlorobutadiene         | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:27 | 1       |
| Naphthalene                 | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:27 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 0.50 | 0.15  | ug/L |   |          | 06/02/25 20:27 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 06/02/25 20:27 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 80 - 120 |          | 06/02/25 20:27 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 80 - 120 |          | 06/02/25 20:27 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 80 - 120 |          | 06/02/25 20:27 | 1       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 20 | 9.1 | ug/L |   |          | 05/21/25 06:10 | 10      |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 3.4    |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 12:16 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-32i-051425

Lab Sample ID: 580-150519-13

Date Collected: 05/14/25 12:45

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chloromethane               | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Vinyl chloride              | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Bromomethane                | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chloroethane                | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Trichlorofluoromethane      | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1-Dichloroethene          | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Carbon disulfide            | ND     | H         | 5.0 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Acetone                     | ND     | H         | 25  | 7.5  | ug/L |   |          | 06/03/25 07:59 | 5       |
| Methylene Chloride          | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:59 | 5       |
| Methyl tert-butyl ether     | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| trans-1,2-Dichloroethene    | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1-Dichloroethane          | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 2,2-Dichloropropane         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| cis-1,2-Dichloroethene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 2-Butanone (MEK)            | ND     | H         | 25  | 5.0  | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chlorobromomethane          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chloroform                  | ND     | H         | 2.5 | 0.45 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1,1-Trichloroethane       | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Carbon tetrachloride        | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1-Dichloropropene         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Benzene                     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2-Dichloroethane          | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Trichloroethene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2-Dichloropropane         | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Dibromomethane              | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Dichlorobromomethane        | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| cis-1,3-Dichloropropene     | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 25  | 5.0  | ug/L |   |          | 06/03/25 07:59 | 5       |
| Toluene                     | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| trans-1,3-Dichloropropene   | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1,2-Trichloroethane       | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Tetrachloroethene           | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,3-Dichloropropane         | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chlorodibromomethane        | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Ethylene Dibromide          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Chlorobenzene               | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Ethylbenzene                | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| m-Xylene & p-Xylene         | ND     | H         | 2.5 | 1.0  | ug/L |   |          | 06/03/25 07:59 | 5       |
| o-Xylene                    | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Styrene                     | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Bromoform                   | ND     | H         | 5.0 | 1.5  | ug/L |   |          | 06/03/25 07:59 | 5       |
| Isopropylbenzene            | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Bromobenzene                | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2,3-Trichloropropane      | ND     | H         | 5.0 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| N-Propylbenzene             | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 2-Chlorotoluene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-32i-051425

Lab Sample ID: 580-150519-13

Date Collected: 05/14/25 12:45

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| tert-Butylbenzene           | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| sec-Butylbenzene            | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 4-Isopropyltoluene          | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,3-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,4-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| n-Butylbenzene              | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2-Dichlorobenzene         | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 2.5 | 0.35 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Hexachlorobutadiene         | ND     | H         | 2.5 | 0.40 | ug/L |   |          | 06/03/25 07:59 | 5       |
| Naphthalene                 | ND     | H         | 2.5 | 0.50 | ug/L |   |          | 06/03/25 07:59 | 5       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 2.5 | 0.75 | ug/L |   |          | 06/03/25 07:59 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 06/03/25 07:59 | 5       |
| Dibromofluoromethane (Surr)  | 107       |           | 80 - 120 |          | 06/03/25 07:59 | 5       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 80 - 120 |          | 06/03/25 07:59 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/03/25 07:59 | 5       |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/21/25 06:51 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 47     |           | 1.5 | 0.43 | mg/L |   |          | 06/05/25 12:28 | 1       |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-11i(d)-051425

Lab Sample ID: 580-150519-14

Date Collected: 05/14/25 14:04

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chloromethane               | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Vinyl chloride              | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Bromomethane                | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chloroethane                | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Trichlorofluoromethane      | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1-Dichloroethene          | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Carbon disulfide            | ND     | H         | 1.0  | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Acetone                     | ND     | H         | 5.0  | 1.5   | ug/L |   |          | 06/02/25 20:48 | 1       |
| Methylene Chloride          | 0.22   | J H       | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Methyl tert-butyl ether     | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| trans-1,2-Dichloroethene    | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1-Dichloroethane          | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 2,2-Dichloropropane         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| cis-1,2-Dichloroethene      | 0.22   | J H       | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 2-Butanone (MEK)            | ND     | H         | 5.0  | 1.0   | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chlorobromomethane          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chloroform                  | ND     | H         | 0.50 | 0.090 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1,1-Trichloroethane       | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Carbon tetrachloride        | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1-Dichloropropene         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Benzene                     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2-Dichloroethane          | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Trichloroethene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2-Dichloropropane         | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Dibromomethane              | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Dichlorobromomethane        | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| cis-1,3-Dichloropropene     | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 5.0  | 1.0   | ug/L |   |          | 06/02/25 20:48 | 1       |
| Toluene                     | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| trans-1,3-Dichloropropene   | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1,2-Trichloroethane       | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Tetrachloroethene           | ND     | H         | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,3-Dichloropropane         | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chlorodibromomethane        | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Ethylene Dibromide          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Chlorobenzene               | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Ethylbenzene                | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| m-Xylene & p-Xylene         | ND     | H         | 0.50 | 0.20  | ug/L |   |          | 06/02/25 20:48 | 1       |
| o-Xylene                    | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Styrene                     | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Bromoform                   | ND     | H         | 1.0  | 0.30  | ug/L |   |          | 06/02/25 20:48 | 1       |
| Isopropylbenzene            | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Bromobenzene                | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2,3-Trichloropropane      | ND     | H         | 1.0  | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| N-Propylbenzene             | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 2-Chlorotoluene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: MWA-11i(d)-051425

Lab Sample ID: 580-150519-14

Date Collected: 05/14/25 14:04

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| 4-Chlorotoluene             | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| tert-Butylbenzene           | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| sec-Butylbenzene            | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 4-Isopropyltoluene          | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,3-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,4-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| n-Butylbenzene              | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2-Dichlorobenzene         | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 0.50 | 0.070 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Hexachlorobutadiene         | ND     | H         | 0.50 | 0.080 | ug/L |   |          | 06/02/25 20:48 | 1       |
| Naphthalene                 | ND     | H         | 0.50 | 0.10  | ug/L |   |          | 06/02/25 20:48 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 0.50 | 0.15  | ug/L |   |          | 06/02/25 20:48 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 99        |           | 80 - 120 |          | 06/02/25 20:48 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 80 - 120 |          | 06/02/25 20:48 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 80 - 120 |          | 06/02/25 20:48 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 80 - 120 |          | 06/02/25 20:48 | 1       |

## Method: EPA 314.0 - Perchlorate (IC)

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 2.0 | 0.91 | ug/L |   |          | 05/21/25 07:32 | 1       |

## General Chemistry

| Analyte              | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 900    |           | 15 | 4.3 | mg/L |   |          | 06/05/25 12:51 | 10      |

# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-30d-051525

Lab Sample ID: 580-150519-15

Date Collected: 05/15/25 06:44

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Chloromethane               | ND     | H         | 10  | 2.8 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Vinyl chloride              | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Bromomethane                | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Chloroethane                | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Trichlorofluoromethane      | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1-Dichloroethene          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Carbon disulfide            | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Acetone                     | ND     | H         | 100 | 3.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Methylene Chloride          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Methyl tert-butyl ether     | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| trans-1,2-Dichloroethene    | ND     | H         | 10  | 3.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1-Dichloroethane          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 2,2-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| cis-1,2-Dichloroethene      | 3.6    | J H       | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 2-Butanone (MEK)            | ND     | H         | 50  | 5.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Chlorobromomethane          | ND     | H         | 25  | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Chloroform                  | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1,1-Trichloroethane       | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Carbon tetrachloride        | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1-Dichloropropene         | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Benzene                     | 57     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2-Dichloroethane          | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Trichloroethene             | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Dibromomethane              | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Dichlorobromomethane        | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| cis-1,3-Dichloropropene     | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 4-Methyl-2-pentanone (MIBK) | ND     | H         | 50  | 2.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Toluene                     | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| trans-1,3-Dichloropropene   | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1,2-Trichloroethane       | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Tetrachloroethene           | ND     | *+ H      | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,3-Dichloropropane         | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Chlorodibromomethane        | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Ethylene Dibromide          | ND     | H         | 5.0 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1,1,2-Tetrachloroethane   | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Ethylbenzene                | ND     | H         | 5.0 | 2.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| m-Xylene & p-Xylene         | ND     | H         | 25  | 10  | ug/L |   |          | 06/02/25 18:46 | 5       |
| o-Xylene                    | ND     | H         | 5.0 | 2.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Styrene                     | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Bromoform                   | ND     | H         | 20  | 5.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Isopropylbenzene            | ND     | *+ H      | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Bromobenzene                | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,1,2,2-Tetrachloroethane   | ND     | H         | 5.0 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2,3-Trichloropropane      | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| N-Propylbenzene             | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 2-Chlorotoluene             | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 4-Chlorotoluene             | ND     | H         | 25  | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |

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# Client Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

Client Sample ID: PA-30d-051525

Lab Sample ID: 580-150519-15

Date Collected: 05/15/25 06:44

Matrix: Water

Date Received: 05/15/25 11:40

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| tert-Butylbenzene           | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2,4-Trimethylbenzene      | ND     | H         | 25 | 5.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| sec-Butylbenzene            | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 4-Isopropyltoluene          | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,3-Dichlorobenzene         | ND     | H         | 25 | 3.4 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,4-Dichlorobenzene         | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| n-Butylbenzene              | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2-Dichlorobenzene         | ND     | H         | 25 | 1.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2-Dibromo-3-Chloropropane | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2,4-Trichlorobenzene      | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |
| Hexachlorobutadiene         | ND     | *+ H      | 25 | 10  | ug/L |   |          | 06/02/25 18:46 | 5       |
| Naphthalene                 | ND     | H         | 25 | 5.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,2,3-Trichlorobenzene      | ND     | H         | 25 | 2.0 | ug/L |   |          | 06/02/25 18:46 | 5       |
| 1,3,5-Trimethylbenzene      | ND     | H         | 25 | 1.5 | ug/L |   |          | 06/02/25 18:46 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |          | 06/02/25 18:46 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/02/25 18:46 | 5       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 80 - 120 |          | 06/02/25 18:46 | 5       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 06/02/25 18:46 | 5       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

| Analyte       | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chlorobenzene | 6900   | H         | 50 | 15  | ug/L |   |          | 06/02/25 19:06 | 50      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 06/02/25 19:06 | 50      |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 80 - 120 |          | 06/02/25 19:06 | 50      |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 80 - 120 |          | 06/02/25 19:06 | 50      |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 |          | 06/02/25 19:06 | 50      |

## Method: EPA 314.0 - Perchlorate (IC) - DL

| Analyte     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Perchlorate | ND     |           | 200 | 91  | ug/L |   |          | 05/21/25 08:14 | 100     |

## General Chemistry

| Analyte              | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 310    |           | 7.5 | 2.2 | mg/L |   |          | 06/05/25 13:15 | 5       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-651594/10

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chloromethane               | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Vinyl chloride              | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Bromomethane                | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chloroethane                | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Trichlorofluoromethane      | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1-Dichloroethene          | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Carbon disulfide            | ND        |              | 1.0  | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Acetone                     | ND        |              | 5.0  | 1.5   | ug/L |   |          | 06/02/25 13:54 | 1       |
| Methylene Chloride          | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Methyl tert-butyl ether     | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1-Dichloroethane          | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 2,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 2-Butanone (MEK)            | ND        |              | 5.0  | 1.0   | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chlorobromomethane          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chloroform                  | ND        |              | 0.50 | 0.090 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Carbon tetrachloride        | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1-Dichloropropene         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Benzene                     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2-Dichloroethane          | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Trichloroethene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Dibromomethane              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Dichlorobromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0  | 1.0   | ug/L |   |          | 06/02/25 13:54 | 1       |
| Toluene                     | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Tetrachloroethene           | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,3-Dichloropropane         | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chlorodibromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Ethylene Dibromide          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Chlorobenzene               | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Ethylbenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 13:54 | 1       |
| o-Xylene                    | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Styrene                     | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Bromoform                   | ND        |              | 1.0  | 0.30  | ug/L |   |          | 06/02/25 13:54 | 1       |
| Isopropylbenzene            | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Bromobenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0  | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| N-Propylbenzene             | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-651594/10

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| 2-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 4-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| tert-Butylbenzene           | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| sec-Butylbenzene            | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 4-Isopropyltoluene          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| n-Butylbenzene              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Hexachlorobutadiene         | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 13:54 | 1       |
| Naphthalene                 | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 13:54 | 1       |
| 1,2,3-Trichlorobenzene      | ND        |              | 0.50 | 0.15  | ug/L |   |          | 06/02/25 13:54 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 100          |              | 80 - 120 |          | 06/02/25 13:54 | 1       |
| Dibromofluoromethane (Surr)  | 106          |              | 80 - 120 |          | 06/02/25 13:54 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92           |              | 80 - 120 |          | 06/02/25 13:54 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106          |              | 80 - 120 |          | 06/02/25 13:54 | 1       |

Lab Sample ID: LCS 410-651594/5

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane  | 5.00        | 4.37       |               | ug/L |   | 87   | 43 - 123    |
| Chloromethane            | 5.00        | 3.97       |               | ug/L |   | 79   | 56 - 124    |
| Vinyl chloride           | 5.00        | 4.18       |               | ug/L |   | 84   | 60 - 125    |
| Bromomethane             | 5.00        | 4.61       |               | ug/L |   | 92   | 63 - 120    |
| Chloroethane             | 5.00        | 4.99       |               | ug/L |   | 100  | 63 - 120    |
| Trichlorofluoromethane   | 5.00        | 4.85       |               | ug/L |   | 97   | 53 - 136    |
| 1,1-Dichloroethene       | 5.00        | 5.85       |               | ug/L |   | 117  | 80 - 131    |
| Carbon disulfide         | 5.00        | 4.99       |               | ug/L |   | 100  | 67 - 130    |
| Acetone                  | 62.5        | 53.1       |               | ug/L |   | 85   | 60 - 146    |
| Methylene Chloride       | 5.00        | 5.45       |               | ug/L |   | 109  | 80 - 120    |
| Methyl tert-butyl ether  | 5.00        | 4.63       |               | ug/L |   | 93   | 69 - 120    |
| trans-1,2-Dichloroethene | 5.00        | 5.65       |               | ug/L |   | 113  | 80 - 122    |
| 1,1-Dichloroethane       | 5.00        | 5.52       |               | ug/L |   | 110  | 74 - 120    |
| 2,2-Dichloropropane      | 5.00        | 5.15       |               | ug/L |   | 103  | 77 - 128    |
| cis-1,2-Dichloroethene   | 5.00        | 5.09       |               | ug/L |   | 102  | 80 - 122    |
| 2-Butanone (MEK)         | 62.5        | 59.2       |               | ug/L |   | 95   | 59 - 141    |
| Chlorobromomethane       | 5.00        | 5.59       |               | ug/L |   | 112  | 80 - 133    |
| Chloroform               | 5.00        | 5.38       |               | ug/L |   | 108  | 80 - 120    |
| 1,1,1-Trichloroethane    | 5.00        | 5.36       |               | ug/L |   | 107  | 78 - 126    |
| Carbon tetrachloride     | 5.00        | 5.30       |               | ug/L |   | 106  | 64 - 141    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-651594/5

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloropropene         | 5.00        | 5.24       |               | ug/L |   | 105  | 74 - 120    |
| Benzene                     | 5.00        | 5.35       |               | ug/L |   | 107  | 80 - 120    |
| 1,2-Dichloroethane          | 5.00        | 5.24       |               | ug/L |   | 105  | 69 - 122    |
| Trichloroethene             | 5.00        | 5.26       |               | ug/L |   | 105  | 80 - 120    |
| 1,2-Dichloropropane         | 5.00        | 5.37       |               | ug/L |   | 107  | 80 - 120    |
| Dibromomethane              | 5.00        | 5.39       |               | ug/L |   | 108  | 80 - 122    |
| Dichlorobromomethane        | 5.00        | 5.36       |               | ug/L |   | 107  | 80 - 123    |
| cis-1,3-Dichloropropene     | 5.00        | 4.68       |               | ug/L |   | 94   | 67 - 121    |
| 4-Methyl-2-pentanone (MIBK) | 62.5        | 56.5       |               | ug/L |   | 90   | 55 - 140    |
| Toluene                     | 5.00        | 5.03       |               | ug/L |   | 101  | 80 - 120    |
| trans-1,3-Dichloropropene   | 5.00        | 4.91       |               | ug/L |   | 98   | 61 - 129    |
| 1,1,2-Trichloroethane       | 5.00        | 5.06       |               | ug/L |   | 101  | 80 - 120    |
| Tetrachloroethene           | 5.00        | 4.87       |               | ug/L |   | 97   | 80 - 120    |
| 1,3-Dichloropropane         | 5.00        | 4.83       |               | ug/L |   | 97   | 80 - 120    |
| Chlorodibromomethane        | 5.00        | 5.04       |               | ug/L |   | 101  | 80 - 123    |
| Ethylene Dibromide          | 5.00        | 5.03       |               | ug/L |   | 101  | 80 - 120    |
| Chlorobenzene               | 5.00        | 4.87       |               | ug/L |   | 97   | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 5.00        | 4.86       |               | ug/L |   | 97   | 80 - 122    |
| Ethylbenzene                | 5.00        | 5.01       |               | ug/L |   | 100  | 80 - 120    |
| m-Xylene & p-Xylene         | 10.0        | 10.1       |               | ug/L |   | 101  | 80 - 120    |
| o-Xylene                    | 5.00        | 5.03       |               | ug/L |   | 101  | 80 - 120    |
| Styrene                     | 5.00        | 5.17       |               | ug/L |   | 103  | 80 - 120    |
| Bromoform                   | 5.00        | 4.99       |               | ug/L |   | 100  | 75 - 126    |
| Isopropylbenzene            | 5.00        | 5.72       |               | ug/L |   | 114  | 80 - 120    |
| Bromobenzene                | 5.00        | 4.88       |               | ug/L |   | 98   | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 5.00        | 4.82       |               | ug/L |   | 96   | 75 - 123    |
| 1,2,3-Trichloropropane      | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 125    |
| N-Propylbenzene             | 5.00        | 5.31       |               | ug/L |   | 106  | 74 - 122    |
| 2-Chlorotoluene             | 5.00        | 4.91       |               | ug/L |   | 98   | 80 - 120    |
| 4-Chlorotoluene             | 5.00        | 4.86       |               | ug/L |   | 97   | 80 - 120    |
| 1,3,5-Trimethylbenzene      | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 120    |
| tert-Butylbenzene           | 5.00        | 4.80       |               | ug/L |   | 96   | 79 - 120    |
| 1,2,4-Trimethylbenzene      | 5.00        | 4.98       |               | ug/L |   | 100  | 80 - 120    |
| sec-Butylbenzene            | 5.00        | 5.37       |               | ug/L |   | 107  | 80 - 120    |
| 4-Isopropyltoluene          | 5.00        | 5.34       |               | ug/L |   | 107  | 80 - 120    |
| 1,3-Dichlorobenzene         | 5.00        | 5.04       |               | ug/L |   | 101  | 80 - 120    |
| 1,4-Dichlorobenzene         | 5.00        | 4.79       |               | ug/L |   | 96   | 80 - 120    |
| n-Butylbenzene              | 5.00        | 5.92       |               | ug/L |   | 118  | 74 - 123    |
| 1,2-Dichlorobenzene         | 5.00        | 4.99       |               | ug/L |   | 100  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 5.00        | 4.62       |               | ug/L |   | 92   | 75 - 124    |
| 1,2,4-Trichlorobenzene      | 5.00        | 5.35       |               | ug/L |   | 107  | 68 - 122    |
| Hexachlorobutadiene         | 5.00        | 6.03       |               | ug/L |   | 121  | 72 - 132    |
| Naphthalene                 | 5.00        | 4.90       |               | ug/L |   | 98   | 64 - 135    |
| 1,2,3-Trichlorobenzene      | 5.00        | 4.84       |               | ug/L |   | 97   | 62 - 141    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)           | 101           |               | 80 - 120 |
| Dibromofluoromethane (Surr) | 107           |               | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-651594/5

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 80 - 120 |

Lab Sample ID: LCSD 410-651594/6

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Dichlorodifluoromethane     | 5.00        | 4.49        |                | ug/L |   | 90   | 43 - 123    | 3   | 30        |
| Chloromethane               | 5.00        | 3.86        |                | ug/L |   | 77   | 56 - 124    | 3   | 30        |
| Vinyl chloride              | 5.00        | 4.44        |                | ug/L |   | 89   | 60 - 125    | 6   | 30        |
| Bromomethane                | 5.00        | 4.80        |                | ug/L |   | 96   | 63 - 120    | 4   | 30        |
| Chloroethane                | 5.00        | 5.23        |                | ug/L |   | 105  | 63 - 120    | 5   | 30        |
| Trichlorofluoromethane      | 5.00        | 4.99        |                | ug/L |   | 100  | 53 - 136    | 3   | 30        |
| 1,1-Dichloroethene          | 5.00        | 6.02        |                | ug/L |   | 120  | 80 - 131    | 3   | 30        |
| Carbon disulfide            | 5.00        | 5.11        |                | ug/L |   | 102  | 67 - 130    | 2   | 30        |
| Acetone                     | 62.5        | 58.5        |                | ug/L |   | 94   | 60 - 146    | 10  | 30        |
| Methylene Chloride          | 5.00        | 5.72        |                | ug/L |   | 114  | 80 - 120    | 5   | 30        |
| Methyl tert-butyl ether     | 5.00        | 4.88        |                | ug/L |   | 98   | 69 - 120    | 5   | 30        |
| trans-1,2-Dichloroethene    | 5.00        | 5.76        |                | ug/L |   | 115  | 80 - 122    | 2   | 30        |
| 1,1-Dichloroethane          | 5.00        | 5.76        |                | ug/L |   | 115  | 74 - 120    | 4   | 30        |
| 2,2-Dichloropropane         | 5.00        | 5.35        |                | ug/L |   | 107  | 77 - 128    | 4   | 30        |
| cis-1,2-Dichloroethene      | 5.00        | 5.37        |                | ug/L |   | 107  | 80 - 122    | 5   | 30        |
| 2-Butanone (MEK)            | 62.5        | 66.3        |                | ug/L |   | 106  | 59 - 141    | 11  | 30        |
| Chlorobromomethane          | 5.00        | 5.72        |                | ug/L |   | 114  | 80 - 133    | 2   | 30        |
| Chloroform                  | 5.00        | 5.55        |                | ug/L |   | 111  | 80 - 120    | 3   | 30        |
| 1,1,1-Trichloroethane       | 5.00        | 5.63        |                | ug/L |   | 113  | 78 - 126    | 5   | 30        |
| Carbon tetrachloride        | 5.00        | 5.50        |                | ug/L |   | 110  | 64 - 141    | 4   | 30        |
| 1,1-Dichloropropene         | 5.00        | 5.36        |                | ug/L |   | 107  | 74 - 120    | 2   | 30        |
| Benzene                     | 5.00        | 5.42        |                | ug/L |   | 108  | 80 - 120    | 1   | 30        |
| 1,2-Dichloroethane          | 5.00        | 5.56        |                | ug/L |   | 111  | 69 - 122    | 6   | 30        |
| Trichloroethene             | 5.00        | 5.45        |                | ug/L |   | 109  | 80 - 120    | 3   | 30        |
| 1,2-Dichloropropane         | 5.00        | 5.60        |                | ug/L |   | 112  | 80 - 120    | 4   | 30        |
| Dibromomethane              | 5.00        | 5.42        |                | ug/L |   | 108  | 80 - 122    | 1   | 30        |
| Dichlorobromomethane        | 5.00        | 5.49        |                | ug/L |   | 110  | 80 - 123    | 2   | 30        |
| cis-1,3-Dichloropropene     | 5.00        | 4.91        |                | ug/L |   | 98   | 67 - 121    | 5   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 62.5        | 61.4        |                | ug/L |   | 98   | 55 - 140    | 8   | 30        |
| Toluene                     | 5.00        | 5.23        |                | ug/L |   | 105  | 80 - 120    | 4   | 30        |
| trans-1,3-Dichloropropene   | 5.00        | 5.11        |                | ug/L |   | 102  | 61 - 129    | 4   | 30        |
| 1,1,2-Trichloroethane       | 5.00        | 5.19        |                | ug/L |   | 104  | 80 - 120    | 3   | 30        |
| Tetrachloroethene           | 5.00        | 5.10        |                | ug/L |   | 102  | 80 - 120    | 5   | 30        |
| 1,3-Dichloropropane         | 5.00        | 5.13        |                | ug/L |   | 103  | 80 - 120    | 6   | 30        |
| Chlorodibromomethane        | 5.00        | 5.25        |                | ug/L |   | 105  | 80 - 123    | 4   | 30        |
| Ethylene Dibromide          | 5.00        | 5.23        |                | ug/L |   | 105  | 80 - 120    | 4   | 30        |
| Chlorobenzene               | 5.00        | 5.15        |                | ug/L |   | 103  | 80 - 120    | 6   | 30        |
| 1,1,1,2-Tetrachloroethane   | 5.00        | 5.06        |                | ug/L |   | 101  | 80 - 122    | 4   | 30        |
| Ethylbenzene                | 5.00        | 5.22        |                | ug/L |   | 104  | 80 - 120    | 4   | 30        |
| m-Xylene & p-Xylene         | 10.0        | 10.6        |                | ug/L |   | 106  | 80 - 120    | 5   | 30        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-651594/6

Matrix: Water

Analysis Batch: 651594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| o-Xylene                    | 5.00        | 5.24        |                | ug/L |   | 105  | 80 - 120    | 4   | 30        |
| Styrene                     | 5.00        | 5.43        |                | ug/L |   | 109  | 80 - 120    | 5   | 30        |
| Bromoform                   | 5.00        | 5.16        |                | ug/L |   | 103  | 75 - 126    | 3   | 30        |
| Isopropylbenzene            | 5.00        | 5.96        |                | ug/L |   | 119  | 80 - 120    | 4   | 30        |
| Bromobenzene                | 5.00        | 5.07        |                | ug/L |   | 101  | 80 - 120    | 4   | 30        |
| 1,1,2,2-Tetrachloroethane   | 5.00        | 5.08        |                | ug/L |   | 102  | 75 - 123    | 5   | 30        |
| 1,2,3-Trichloropropane      | 5.00        | 5.13        |                | ug/L |   | 103  | 80 - 125    | 0   | 30        |
| N-Propylbenzene             | 5.00        | 5.41        |                | ug/L |   | 108  | 74 - 122    | 2   | 30        |
| 2-Chlorotoluene             | 5.00        | 5.04        |                | ug/L |   | 101  | 80 - 120    | 3   | 30        |
| 4-Chlorotoluene             | 5.00        | 4.96        |                | ug/L |   | 99   | 80 - 120    | 2   | 30        |
| 1,3,5-Trimethylbenzene      | 5.00        | 5.33        |                | ug/L |   | 107  | 80 - 120    | 4   | 30        |
| tert-Butylbenzene           | 5.00        | 4.92        |                | ug/L |   | 98   | 79 - 120    | 2   | 30        |
| 1,2,4-Trimethylbenzene      | 5.00        | 5.16        |                | ug/L |   | 103  | 80 - 120    | 4   | 30        |
| sec-Butylbenzene            | 5.00        | 5.56        |                | ug/L |   | 111  | 80 - 120    | 3   | 30        |
| 4-Isopropyltoluene          | 5.00        | 5.48        |                | ug/L |   | 110  | 80 - 120    | 3   | 30        |
| 1,3-Dichlorobenzene         | 5.00        | 5.19        |                | ug/L |   | 104  | 80 - 120    | 3   | 30        |
| 1,4-Dichlorobenzene         | 5.00        | 4.91        |                | ug/L |   | 98   | 80 - 120    | 2   | 30        |
| n-Butylbenzene              | 5.00        | 6.00        |                | ug/L |   | 120  | 74 - 123    | 1   | 30        |
| 1,2-Dichlorobenzene         | 5.00        | 5.18        |                | ug/L |   | 104  | 80 - 120    | 4   | 30        |
| 1,2-Dibromo-3-Chloropropane | 5.00        | 4.64        |                | ug/L |   | 93   | 75 - 124    | 0   | 30        |
| 1,2,4-Trichlorobenzene      | 5.00        | 5.55        |                | ug/L |   | 111  | 68 - 122    | 4   | 30        |
| Hexachlorobutadiene         | 5.00        | 6.21        |                | ug/L |   | 124  | 72 - 132    | 3   | 30        |
| Naphthalene                 | 5.00        | 5.09        |                | ug/L |   | 102  | 64 - 135    | 4   | 30        |
| 1,2,3-Trichlorobenzene      | 5.00        | 5.13        |                | ug/L |   | 103  | 62 - 141    | 6   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr)            | 101            |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 107            |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 96             |                | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 109            |                | 80 - 120 |

Lab Sample ID: MB 410-651883/6

Matrix: Water

Analysis Batch: 651883

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane  | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chloromethane            | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Vinyl chloride           | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Bromomethane             | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chloroethane             | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Trichlorofluoromethane   | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1-Dichloroethene       | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Carbon disulfide         | ND        |              | 1.0  | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Acetone                  | ND        |              | 5.0  | 1.5   | ug/L |   |          | 06/02/25 22:56 | 1       |
| Methylene Chloride       | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Methyl tert-butyl ether  | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| trans-1,2-Dichloroethene | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-651883/6

Matrix: Water

Analysis Batch: 651883

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| 1,1-Dichloroethane          | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 2,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 2-Butanone (MEK)            | ND        |              | 5.0  | 1.0   | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chlorobromomethane          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chloroform                  | ND        |              | 0.50 | 0.090 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Carbon tetrachloride        | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1-Dichloropropene         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Benzene                     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2-Dichloroethane          | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Trichloroethene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2-Dichloropropane         | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Dibromomethane              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Dichlorobromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 5.0  | 1.0   | ug/L |   |          | 06/02/25 22:56 | 1       |
| Toluene                     | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Tetrachloroethene           | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,3-Dichloropropane         | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chlorodibromomethane        | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Ethylene Dibromide          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Chlorobenzene               | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Ethylbenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 0.50 | 0.20  | ug/L |   |          | 06/02/25 22:56 | 1       |
| o-Xylene                    | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Styrene                     | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Bromoform                   | ND        |              | 1.0  | 0.30  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Isopropylbenzene            | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Bromobenzene                | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 1.0  | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| N-Propylbenzene             | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 2-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 4-Chlorotoluene             | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| tert-Butylbenzene           | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| sec-Butylbenzene            | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 4-Isopropyltoluene          | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| n-Butylbenzene              | ND        |              | 0.50 | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 0.50 | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 0.50 | 0.070 | ug/L |   |          | 06/02/25 22:56 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-651883/6

Matrix: Water

Analysis Batch: 651883

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|-------|------|---|----------|----------------|---------|
| Hexachlorobutadiene          | 0.107        | J            | 0.50     | 0.080 | ug/L |   |          | 06/02/25 22:56 | 1       |
| Naphthalene                  | ND           |              | 0.50     | 0.10  | ug/L |   |          | 06/02/25 22:56 | 1       |
| 1,2,3-Trichlorobenzene       | ND           |              | 0.50     | 0.15  | ug/L |   |          | 06/02/25 22:56 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| Toluene-d8 (Surr)            | 100          |              | 80 - 120 |       |      |   |          | 06/02/25 22:56 | 1       |
| Dibromofluoromethane (Surr)  | 109          |              | 80 - 120 |       |      |   |          | 06/02/25 22:56 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94           |              | 80 - 120 |       |      |   |          | 06/02/25 22:56 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 107          |              | 80 - 120 |       |      |   |          | 06/02/25 22:56 | 1       |

Lab Sample ID: LCS 410-651883/4

Matrix: Water

Analysis Batch: 651883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane     | 5.00        | 4.62       |               | ug/L |   | 92   | 43 - 123    |
| Chloromethane               | 5.00        | 4.13       |               | ug/L |   | 83   | 56 - 124    |
| Vinyl chloride              | 5.00        | 4.30       |               | ug/L |   | 86   | 60 - 125    |
| Bromomethane                | 5.00        | 4.77       |               | ug/L |   | 95   | 63 - 120    |
| Chloroethane                | 5.00        | 5.20       |               | ug/L |   | 104  | 63 - 120    |
| Trichlorofluoromethane      | 5.00        | 4.91       |               | ug/L |   | 98   | 53 - 136    |
| 1,1-Dichloroethene          | 5.00        | 5.98       |               | ug/L |   | 120  | 80 - 131    |
| Carbon disulfide            | 5.00        | 5.20       |               | ug/L |   | 104  | 67 - 130    |
| Acetone                     | 62.5        | 56.8       |               | ug/L |   | 91   | 60 - 146    |
| Methylene Chloride          | 5.00        | 5.80       |               | ug/L |   | 116  | 80 - 120    |
| Methyl tert-butyl ether     | 5.00        | 4.90       |               | ug/L |   | 98   | 69 - 120    |
| trans-1,2-Dichloroethene    | 5.00        | 5.90       |               | ug/L |   | 118  | 80 - 122    |
| 1,1-Dichloroethane          | 5.00        | 5.83       |               | ug/L |   | 117  | 74 - 120    |
| 2,2-Dichloropropane         | 5.00        | 5.30       |               | ug/L |   | 106  | 77 - 128    |
| cis-1,2-Dichloroethene      | 5.00        | 5.27       |               | ug/L |   | 105  | 80 - 122    |
| 2-Butanone (MEK)            | 62.5        | 62.6       |               | ug/L |   | 100  | 59 - 141    |
| Chlorobromomethane          | 5.00        | 5.74       |               | ug/L |   | 115  | 80 - 133    |
| Chloroform                  | 5.00        | 5.58       |               | ug/L |   | 112  | 80 - 120    |
| 1,1,1-Trichloroethane       | 5.00        | 5.61       |               | ug/L |   | 112  | 78 - 126    |
| Carbon tetrachloride        | 5.00        | 5.45       |               | ug/L |   | 109  | 64 - 141    |
| 1,1-Dichloropropene         | 5.00        | 5.42       |               | ug/L |   | 108  | 74 - 120    |
| Benzene                     | 5.00        | 5.55       |               | ug/L |   | 111  | 80 - 120    |
| 1,2-Dichloroethane          | 5.00        | 5.60       |               | ug/L |   | 112  | 69 - 122    |
| Trichloroethene             | 5.00        | 5.55       |               | ug/L |   | 111  | 80 - 120    |
| 1,2-Dichloropropane         | 5.00        | 5.72       |               | ug/L |   | 114  | 80 - 120    |
| Dibromomethane              | 5.00        | 5.51       |               | ug/L |   | 110  | 80 - 122    |
| Dichlorobromomethane        | 5.00        | 5.55       |               | ug/L |   | 111  | 80 - 123    |
| cis-1,3-Dichloropropene     | 5.00        | 5.00       |               | ug/L |   | 100  | 67 - 121    |
| 4-Methyl-2-pentanone (MIBK) | 62.5        | 56.4       |               | ug/L |   | 90   | 55 - 140    |
| Toluene                     | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 120    |
| trans-1,3-Dichloropropene   | 5.00        | 5.02       |               | ug/L |   | 100  | 61 - 129    |
| 1,1,2-Trichloroethane       | 5.00        | 5.11       |               | ug/L |   | 102  | 80 - 120    |
| Tetrachloroethene           | 5.00        | 4.98       |               | ug/L |   | 100  | 80 - 120    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-651883/4

Matrix: Water

Analysis Batch: 651883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,3-Dichloropropane         | 5.00        | 5.06       |               | ug/L |   | 101  | 80 - 120    |
| Chlorodibromomethane        | 5.00        | 5.09       |               | ug/L |   | 102  | 80 - 123    |
| Ethylene Dibromide          | 5.00        | 5.07       |               | ug/L |   | 101  | 80 - 120    |
| Chlorobenzene               | 5.00        | 4.97       |               | ug/L |   | 99   | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 5.00        | 4.93       |               | ug/L |   | 99   | 80 - 122    |
| Ethylbenzene                | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 120    |
| m-Xylene & p-Xylene         | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120    |
| o-Xylene                    | 5.00        | 5.14       |               | ug/L |   | 103  | 80 - 120    |
| Styrene                     | 5.00        | 5.37       |               | ug/L |   | 107  | 80 - 120    |
| Bromoform                   | 5.00        | 4.92       |               | ug/L |   | 98   | 75 - 126    |
| Isopropylbenzene            | 5.00        | 5.77       |               | ug/L |   | 115  | 80 - 120    |
| Bromobenzene                | 5.00        | 4.94       |               | ug/L |   | 99   | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 5.00        | 5.02       |               | ug/L |   | 100  | 75 - 123    |
| 1,2,3-Trichloropropane      | 5.00        | 5.12       |               | ug/L |   | 102  | 80 - 125    |
| N-Propylbenzene             | 5.00        | 5.34       |               | ug/L |   | 107  | 74 - 122    |
| 2-Chlorotoluene             | 5.00        | 4.97       |               | ug/L |   | 99   | 80 - 120    |
| 4-Chlorotoluene             | 5.00        | 4.94       |               | ug/L |   | 99   | 80 - 120    |
| 1,3,5-Trimethylbenzene      | 5.00        | 5.20       |               | ug/L |   | 104  | 80 - 120    |
| tert-Butylbenzene           | 5.00        | 4.76       |               | ug/L |   | 95   | 79 - 120    |
| 1,2,4-Trimethylbenzene      | 5.00        | 5.05       |               | ug/L |   | 101  | 80 - 120    |
| sec-Butylbenzene            | 5.00        | 5.49       |               | ug/L |   | 110  | 80 - 120    |
| 4-Isopropyltoluene          | 5.00        | 5.45       |               | ug/L |   | 109  | 80 - 120    |
| 1,3-Dichlorobenzene         | 5.00        | 5.16       |               | ug/L |   | 103  | 80 - 120    |
| 1,4-Dichlorobenzene         | 5.00        | 4.75       |               | ug/L |   | 95   | 80 - 120    |
| n-Butylbenzene              | 5.00        | 6.06       |               | ug/L |   | 121  | 74 - 123    |
| 1,2-Dichlorobenzene         | 5.00        | 5.02       |               | ug/L |   | 100  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 5.00        | 4.78       |               | ug/L |   | 96   | 75 - 124    |
| 1,2,4-Trichlorobenzene      | 5.00        | 5.60       |               | ug/L |   | 112  | 68 - 122    |
| Hexachlorobutadiene         | 5.00        | 6.34       |               | ug/L |   | 127  | 72 - 132    |
| Naphthalene                 | 5.00        | 5.09       |               | ug/L |   | 102  | 64 - 135    |
| 1,2,3-Trichlorobenzene      | 5.00        | 5.27       |               | ug/L |   | 105  | 62 - 141    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 108           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 96            |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 109           |               | 80 - 120 |

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-651462/7

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                 | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Chloromethane           | ND        |              | 2.0 | 0.55 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Vinyl chloride          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Bromomethane            | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-651462/7

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Trichlorofluoromethane      | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1-Dichloroethene          | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Carbon disulfide            | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Acetone                     | ND           |                 | 20  | 0.70 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Methylene Chloride          | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Methyl tert-butyl ether     | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| trans-1,2-Dichloroethene    | ND           |                 | 2.0 | 0.70 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1-Dichloroethane          | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 2,2-Dichloropropane         | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| cis-1,2-Dichloroethene      | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 2-Butanone (MEK)            | ND           |                 | 10  | 1.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| Chlorobromomethane          | ND           |                 | 5.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Chloroform                  | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1,1-Trichloroethane       | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Carbon tetrachloride        | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1-Dichloropropene         | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Benzene                     | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2-Dichloroethane          | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Trichloroethene             | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2-Dichloropropane         | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Dibromomethane              | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Dichlorobromomethane        | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| cis-1,3-Dichloropropene     | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND           |                 | 10  | 0.50 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Toluene                     | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| trans-1,3-Dichloropropene   | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1,2-Trichloroethane       | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Tetrachloroethene           | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,3-Dichloropropane         | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Chlorodibromomethane        | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Ethylene Dibromide          | ND           |                 | 1.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Chlorobenzene               | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Ethylbenzene                | ND           |                 | 1.0 | 0.40 | ug/L |   |          | 06/02/25 11:35 | 1       |
| m-Xylene & p-Xylene         | ND           |                 | 5.0 | 2.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| o-Xylene                    | ND           |                 | 1.0 | 0.40 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Styrene                     | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Bromoform                   | ND           |                 | 4.0 | 1.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| Isopropylbenzene            | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Bromobenzene                | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND           |                 | 1.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2,3-Trichloropropane      | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| N-Propylbenzene             | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 2-Chlorotoluene             | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 4-Chlorotoluene             | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| tert-Butylbenzene           | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2,4-Trimethylbenzene      | ND           |                 | 5.0 | 1.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| sec-Butylbenzene            | ND           |                 | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-651462/7

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 4-Isopropyltoluene          | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 5.0 | 0.68 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| n-Butylbenzene              | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 5.0 | 0.20 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |
| Hexachlorobutadiene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| Naphthalene                 | ND        |              | 5.0 | 1.0  | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,2,3-Trichlorobenzene      | ND        |              | 5.0 | 0.40 | ug/L |   |          | 06/02/25 11:35 | 1       |
| 1,3,5-Trimethylbenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/02/25 11:35 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr)            | 102          |              | 80 - 120 |          | 06/02/25 11:35 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106          |              | 80 - 120 |          | 06/02/25 11:35 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 80 - 120 |          | 06/02/25 11:35 | 1       |
| Dibromofluoromethane (Surr)  | 106          |              | 80 - 120 |          | 06/02/25 11:35 | 1       |

Lab Sample ID: LCS 410-651462/4

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane  | 20.0        | 16.3       |               | ug/L |   | 82   | 26 - 127    |
| Chloromethane            | 20.0        | 16.9       |               | ug/L |   | 85   | 39 - 134    |
| Vinyl chloride           | 20.0        | 17.0       |               | ug/L |   | 85   | 56 - 120    |
| Bromomethane             | 20.0        | 17.1       |               | ug/L |   | 85   | 53 - 128    |
| Chloroethane             | 20.0        | 18.5       |               | ug/L |   | 92   | 55 - 123    |
| Trichlorofluoromethane   | 20.0        | 19.5       |               | ug/L |   | 98   | 51 - 120    |
| 1,1-Dichloroethene       | 20.0        | 23.7       |               | ug/L |   | 119  | 80 - 131    |
| Carbon disulfide         | 20.0        | 20.6       |               | ug/L |   | 103  | 65 - 128    |
| Acetone                  | 250         | 318        |               | ug/L |   | 127  | 57 - 143    |
| Methylene Chloride       | 20.0        | 22.0       |               | ug/L |   | 110  | 80 - 120    |
| Methyl tert-butyl ether  | 20.0        | 20.7       |               | ug/L |   | 103  | 69 - 122    |
| trans-1,2-Dichloroethene | 20.0        | 23.4       |               | ug/L |   | 117  | 80 - 126    |
| 1,1-Dichloroethane       | 20.0        | 24.0       |               | ug/L |   | 120  | 80 - 120    |
| 2,2-Dichloropropane      | 20.0        | 22.3       |               | ug/L |   | 112  | 63 - 129    |
| cis-1,2-Dichloroethene   | 20.0        | 22.2       |               | ug/L |   | 111  | 80 - 125    |
| 2-Butanone (MEK)         | 250         | 297        |               | ug/L |   | 119  | 59 - 135    |
| Chlorobromomethane       | 20.0        | 22.7       |               | ug/L |   | 114  | 80 - 120    |
| Chloroform               | 20.0        | 22.8       |               | ug/L |   | 114  | 80 - 120    |
| 1,1,1-Trichloroethane    | 20.0        | 23.3       |               | ug/L |   | 117  | 73 - 120    |
| Carbon tetrachloride     | 20.0        | 24.3       |               | ug/L |   | 122  | 64 - 134    |
| 1,1-Dichloropropene      | 20.0        | 22.6       |               | ug/L |   | 113  | 78 - 120    |
| Benzene                  | 20.0        | 22.0       |               | ug/L |   | 110  | 80 - 120    |
| 1,2-Dichloroethane       | 20.0        | 23.5       |               | ug/L |   | 118  | 73 - 124    |
| Trichloroethene          | 20.0        | 22.8       |               | ug/L |   | 114  | 80 - 120    |
| 1,2-Dichloropropane      | 20.0        | 22.9       |               | ug/L |   | 114  | 80 - 120    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-651462/4

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dibromomethane              | 20.0        | 22.8       |               | ug/L |   | 114  | 80 - 120    |
| Dichlorobromomethane        | 20.0        | 22.8       |               | ug/L |   | 114  | 71 - 120    |
| cis-1,3-Dichloropropene     | 20.0        | 21.6       |               | ug/L |   | 108  | 75 - 120    |
| 4-Methyl-2-pentanone (MIBK) | 250         | 292        |               | ug/L |   | 117  | 62 - 133    |
| Toluene                     | 20.0        | 23.1       |               | ug/L |   | 116  | 80 - 120    |
| trans-1,3-Dichloropropene   | 20.0        | 23.1       |               | ug/L |   | 116  | 67 - 120    |
| 1,1,2-Trichloroethane       | 20.0        | 23.3       |               | ug/L |   | 117  | 80 - 120    |
| Tetrachloroethene           | 20.0        | 24.3       | *+            | ug/L |   | 121  | 80 - 120    |
| 1,3-Dichloropropane         | 20.0        | 23.3       |               | ug/L |   | 116  | 80 - 120    |
| Chlorodibromomethane        | 20.0        | 23.2       |               | ug/L |   | 116  | 71 - 120    |
| Ethylene Dibromide          | 20.0        | 23.3       |               | ug/L |   | 117  | 77 - 120    |
| Chlorobenzene               | 20.0        | 23.0       |               | ug/L |   | 115  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 22.2       |               | ug/L |   | 111  | 79 - 120    |
| Ethylbenzene                | 20.0        | 22.7       |               | ug/L |   | 113  | 80 - 120    |
| m-Xylene & p-Xylene         | 40.0        | 45.4       |               | ug/L |   | 113  | 80 - 120    |
| o-Xylene                    | 20.0        | 21.8       |               | ug/L |   | 109  | 80 - 120    |
| Styrene                     | 20.0        | 22.2       |               | ug/L |   | 111  | 80 - 120    |
| Bromoform                   | 20.0        | 23.1       |               | ug/L |   | 116  | 51 - 120    |
| Isopropylbenzene            | 20.0        | 25.7       | *+            | ug/L |   | 129  | 80 - 120    |
| Bromobenzene                | 20.0        | 23.1       |               | ug/L |   | 116  | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 21.5       |               | ug/L |   | 108  | 72 - 120    |
| 1,2,3-Trichloropropane      | 20.0        | 22.1       |               | ug/L |   | 110  | 75 - 124    |
| N-Propylbenzene             | 20.0        | 23.1       |               | ug/L |   | 116  | 79 - 121    |
| 2-Chlorotoluene             | 20.0        | 22.4       |               | ug/L |   | 112  | 80 - 120    |
| 4-Chlorotoluene             | 20.0        | 22.4       |               | ug/L |   | 112  | 80 - 120    |
| tert-Butylbenzene           | 20.0        | 22.6       |               | ug/L |   | 113  | 78 - 120    |
| 1,2,4-Trimethylbenzene      | 20.0        | 21.6       |               | ug/L |   | 108  | 75 - 120    |
| sec-Butylbenzene            | 20.0        | 23.0       |               | ug/L |   | 115  | 77 - 120    |
| 4-Isopropyltoluene          | 20.0        | 22.3       |               | ug/L |   | 112  | 76 - 120    |
| 1,3-Dichlorobenzene         | 20.0        | 22.7       |               | ug/L |   | 113  | 80 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 22.8       |               | ug/L |   | 114  | 80 - 120    |
| n-Butylbenzene              | 20.0        | 23.0       |               | ug/L |   | 115  | 76 - 120    |
| 1,2-Dichlorobenzene         | 20.0        | 21.8       |               | ug/L |   | 109  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 21.9       |               | ug/L |   | 110  | 60 - 120    |
| 1,2,4-Trichlorobenzene      | 20.0        | 21.4       |               | ug/L |   | 107  | 63 - 120    |
| Hexachlorobutadiene         | 20.0        | 26.2       | *+            | ug/L |   | 131  | 63 - 120    |
| Naphthalene                 | 20.0        | 20.0       |               | ug/L |   | 100  | 67 - 124    |
| 1,2,3-Trichlorobenzene      | 20.0        | 20.8       |               | ug/L |   | 104  | 66 - 120    |
| 1,3,5-Trimethylbenzene      | 20.0        | 22.2       |               | ug/L |   | 111  | 75 - 120    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 101           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 102           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 104           |               | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-651462/5

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Dichlorodifluoromethane     | 20.0        | 16.3        |                | ug/L |   | 81   | 26 - 127    | 0   | 30        |
| Chloromethane               | 20.0        | 17.3        |                | ug/L |   | 86   | 39 - 134    | 2   | 30        |
| Vinyl chloride              | 20.0        | 17.3        |                | ug/L |   | 86   | 56 - 120    | 2   | 30        |
| Bromomethane                | 20.0        | 17.3        |                | ug/L |   | 87   | 53 - 128    | 1   | 30        |
| Chloroethane                | 20.0        | 18.8        |                | ug/L |   | 94   | 55 - 123    | 2   | 30        |
| Trichlorofluoromethane      | 20.0        | 19.7        |                | ug/L |   | 99   | 51 - 120    | 1   | 30        |
| 1,1-Dichloroethene          | 20.0        | 24.5        |                | ug/L |   | 122  | 80 - 131    | 3   | 30        |
| Carbon disulfide            | 20.0        | 21.2        |                | ug/L |   | 106  | 65 - 128    | 3   | 30        |
| Acetone                     | 250         | 311         |                | ug/L |   | 124  | 57 - 143    | 2   | 30        |
| Methylene Chloride          | 20.0        | 22.8        |                | ug/L |   | 114  | 80 - 120    | 4   | 30        |
| Methyl tert-butyl ether     | 20.0        | 21.1        |                | ug/L |   | 105  | 69 - 122    | 2   | 30        |
| trans-1,2-Dichloroethene    | 20.0        | 23.6        |                | ug/L |   | 118  | 80 - 126    | 1   | 30        |
| 1,1-Dichloroethane          | 20.0        | 24.0        |                | ug/L |   | 120  | 80 - 120    | 0   | 30        |
| 2,2-Dichloropropane         | 20.0        | 22.7        |                | ug/L |   | 114  | 63 - 129    | 2   | 30        |
| cis-1,2-Dichloroethene      | 20.0        | 22.2        |                | ug/L |   | 111  | 80 - 125    | 0   | 30        |
| 2-Butanone (MEK)            | 250         | 308         |                | ug/L |   | 123  | 59 - 135    | 4   | 30        |
| Chlorobromomethane          | 20.0        | 22.9        |                | ug/L |   | 114  | 80 - 120    | 1   | 30        |
| Chloroform                  | 20.0        | 23.1        |                | ug/L |   | 115  | 80 - 120    | 1   | 30        |
| 1,1,1-Trichloroethane       | 20.0        | 23.8        |                | ug/L |   | 119  | 73 - 120    | 2   | 30        |
| Carbon tetrachloride        | 20.0        | 24.4        |                | ug/L |   | 122  | 64 - 134    | 0   | 30        |
| 1,1-Dichloropropene         | 20.0        | 22.8        |                | ug/L |   | 114  | 78 - 120    | 1   | 30        |
| Benzene                     | 20.0        | 22.1        |                | ug/L |   | 110  | 80 - 120    | 0   | 30        |
| 1,2-Dichloroethane          | 20.0        | 23.7        |                | ug/L |   | 118  | 73 - 124    | 1   | 30        |
| Trichloroethene             | 20.0        | 22.9        |                | ug/L |   | 115  | 80 - 120    | 0   | 30        |
| 1,2-Dichloropropane         | 20.0        | 22.6        |                | ug/L |   | 113  | 80 - 120    | 1   | 30        |
| Dibromomethane              | 20.0        | 23.2        |                | ug/L |   | 116  | 80 - 120    | 2   | 30        |
| Dichlorobromomethane        | 20.0        | 22.8        |                | ug/L |   | 114  | 71 - 120    | 0   | 30        |
| cis-1,3-Dichloropropene     | 20.0        | 21.7        |                | ug/L |   | 109  | 75 - 120    | 1   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 250         | 296         |                | ug/L |   | 118  | 62 - 133    | 2   | 30        |
| Toluene                     | 20.0        | 23.2        |                | ug/L |   | 116  | 80 - 120    | 0   | 30        |
| trans-1,3-Dichloropropene   | 20.0        | 23.7        |                | ug/L |   | 118  | 67 - 120    | 2   | 30        |
| 1,1,2-Trichloroethane       | 20.0        | 23.6        |                | ug/L |   | 118  | 80 - 120    | 1   | 30        |
| Tetrachloroethene           | 20.0        | 24.8        | *+             | ug/L |   | 124  | 80 - 120    | 2   | 30        |
| 1,3-Dichloropropane         | 20.0        | 23.9        |                | ug/L |   | 120  | 80 - 120    | 3   | 30        |
| Chlorodibromomethane        | 20.0        | 23.7        |                | ug/L |   | 118  | 71 - 120    | 2   | 30        |
| Ethylene Dibromide          | 20.0        | 23.5        |                | ug/L |   | 118  | 77 - 120    | 1   | 30        |
| Chlorobenzene               | 20.0        | 23.4        |                | ug/L |   | 117  | 80 - 120    | 1   | 30        |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 22.4        |                | ug/L |   | 112  | 79 - 120    | 1   | 30        |
| Ethylbenzene                | 20.0        | 22.8        |                | ug/L |   | 114  | 80 - 120    | 1   | 30        |
| m-Xylene & p-Xylene         | 40.0        | 45.5        |                | ug/L |   | 114  | 80 - 120    | 0   | 30        |
| o-Xylene                    | 20.0        | 22.0        |                | ug/L |   | 110  | 80 - 120    | 1   | 30        |
| Styrene                     | 20.0        | 22.2        |                | ug/L |   | 111  | 80 - 120    | 0   | 30        |
| Bromoform                   | 20.0        | 23.1        |                | ug/L |   | 115  | 51 - 120    | 0   | 30        |
| Isopropylbenzene            | 20.0        | 25.8        | *+             | ug/L |   | 129  | 80 - 120    | 0   | 30        |
| Bromobenzene                | 20.0        | 22.9        |                | ug/L |   | 115  | 80 - 120    | 1   | 30        |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 21.6        |                | ug/L |   | 108  | 72 - 120    | 0   | 30        |
| 1,2,3-Trichloropropane      | 20.0        | 22.3        |                | ug/L |   | 112  | 75 - 124    | 1   | 30        |
| N-Propylbenzene             | 20.0        | 23.4        |                | ug/L |   | 117  | 79 - 121    | 1   | 30        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-651462/5

Matrix: Water

Analysis Batch: 651462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 2-Chlorotoluene             | 20.0        | 22.7        |                | ug/L |   | 113  | 80 - 120    | 1   | 30        |
| 4-Chlorotoluene             | 20.0        | 22.5        |                | ug/L |   | 113  | 80 - 120    | 1   | 30        |
| tert-Butylbenzene           | 20.0        | 23.4        |                | ug/L |   | 117  | 78 - 120    | 3   | 30        |
| 1,2,4-Trimethylbenzene      | 20.0        | 22.3        |                | ug/L |   | 111  | 75 - 120    | 3   | 30        |
| sec-Butylbenzene            | 20.0        | 23.7        |                | ug/L |   | 118  | 77 - 120    | 3   | 30        |
| 4-Isopropyltoluene          | 20.0        | 22.8        |                | ug/L |   | 114  | 76 - 120    | 2   | 30        |
| 1,3-Dichlorobenzene         | 20.0        | 22.7        |                | ug/L |   | 113  | 80 - 120    | 0   | 30        |
| 1,4-Dichlorobenzene         | 20.0        | 23.0        |                | ug/L |   | 115  | 80 - 120    | 1   | 30        |
| n-Butylbenzene              | 20.0        | 23.5        |                | ug/L |   | 117  | 76 - 120    | 2   | 30        |
| 1,2-Dichlorobenzene         | 20.0        | 22.0        |                | ug/L |   | 110  | 80 - 120    | 1   | 30        |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 21.7        |                | ug/L |   | 109  | 60 - 120    | 1   | 30        |
| 1,2,4-Trichlorobenzene      | 20.0        | 21.8        |                | ug/L |   | 109  | 63 - 120    | 2   | 30        |
| Hexachlorobutadiene         | 20.0        | 25.9        | +              | ug/L |   | 130  | 63 - 120    | 1   | 30        |
| Naphthalene                 | 20.0        | 20.3        |                | ug/L |   | 101  | 67 - 124    | 2   | 30        |
| 1,2,3-Trichlorobenzene      | 20.0        | 21.2        |                | ug/L |   | 106  | 66 - 120    | 2   | 30        |
| 1,3,5-Trimethylbenzene      | 20.0        | 22.9        |                | ug/L |   | 114  | 75 - 120    | 3   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| Toluene-d8 (Surr)            | 103            |                | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 104            |                | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 98             |                | 80 - 120 |
| Dibromofluoromethane (Surr)  | 105            |                | 80 - 120 |

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 651462

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte                  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Dichlorodifluoromethane  | ND            | H F1             | 20.0        | 27.8      | H F1         | ug/L |   | 139  | 27 - 131    |
| Chloromethane            | ND            | H                | 20.0        | 23.0      | H            | ug/L |   | 115  | 49 - 126    |
| Vinyl chloride           | ND            | H                | 20.0        | 23.6      | H            | ug/L |   | 118  | 52 - 120    |
| Bromomethane             | ND            | H                | 20.0        | 22.0      | H            | ug/L |   | 110  | 43 - 128    |
| Chloroethane             | ND            | H                | 20.0        | 23.5      | H            | ug/L |   | 118  | 60 - 121    |
| Trichlorofluoromethane   | ND            | H F1             | 20.0        | 26.0      | H F1         | ug/L |   | 130  | 47 - 120    |
| 1,1-Dichloroethene       | ND            | H F1             | 20.0        | 27.2      | H F1         | ug/L |   | 136  | 74 - 121    |
| Carbon disulfide         | ND            | H                | 20.0        | 23.1      | H            | ug/L |   | 115  | 75 - 132    |
| Acetone                  | ND            | H                | 250         | 314       | H            | ug/L |   | 126  | 58 - 141    |
| Methylene Chloride       | 0.68          | J H              | 20.0        | 24.6      | H            | ug/L |   | 119  | 77 - 120    |
| Methyl tert-butyl ether  | ND            | H                | 20.0        | 21.7      | H            | ug/L |   | 108  | 75 - 120    |
| trans-1,2-Dichloroethene | ND            | H F1             | 20.0        | 25.3      | H F1         | ug/L |   | 127  | 74 - 120    |
| 1,1-Dichloroethane       | ND            | H F1             | 20.0        | 25.5      | H F1         | ug/L |   | 127  | 74 - 120    |
| 2,2-Dichloropropane      | ND            | H                | 20.0        | 24.6      | H            | ug/L |   | 123  | 65 - 125    |
| cis-1,2-Dichloroethene   | ND            | H                | 20.0        | 23.8      | H            | ug/L |   | 119  | 81 - 121    |
| 2-Butanone (MEK)         | ND            | H                | 250         | 302       | H            | ug/L |   | 121  | 65 - 131    |
| Chlorobromomethane       | ND            | H                | 20.0        | 24.1      | H            | ug/L |   | 120  | 76 - 126    |
| Chloroform               | 160           | H                | 20.0        | 180       | H 4          | ug/L |   | 83   | 74 - 120    |
| 1,1,1-Trichloroethane    | ND            | H F1             | 20.0        | 26.0      | H F1         | ug/L |   | 130  | 68 - 120    |
| Carbon tetrachloride     | ND            | H F1             | 20.0        | 27.4      | H F1         | ug/L |   | 137  | 63 - 128    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 651462

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1-Dichloropropene         | ND            | H F1             | 20.0        | 25.2      | H F1         | ug/L |   | 126  | 76 - 120    |
| Benzene                     | ND            | H                | 20.0        | 23.7      | H            | ug/L |   | 119  | 81 - 120    |
| 1,2-Dichloroethane          | ND            | H F1             | 20.0        | 25.2      | H F1         | ug/L |   | 126  | 69 - 120    |
| Trichloroethene             | ND            | H F1             | 20.0        | 24.9      | H F1         | ug/L |   | 125  | 76 - 120    |
| 1,2-Dichloropropane         | ND            | H                | 20.0        | 23.9      | H            | ug/L |   | 120  | 77 - 120    |
| Dibromomethane              | ND            | H                | 20.0        | 23.8      | H            | ug/L |   | 119  | 76 - 120    |
| Dichlorobromomethane        | 0.48          | J H F1           | 20.0        | 24.8      | H F1         | ug/L |   | 122  | 73 - 120    |
| cis-1,3-Dichloropropene     | ND            | H                | 20.0        | 22.3      | H            | ug/L |   | 111  | 71 - 120    |
| 4-Methyl-2-pentanone (MIBK) | ND            | H                | 250         | 314       | H            | ug/L |   | 126  | 66 - 129    |
| Toluene                     | ND            | H                | 20.0        | 23.9      | H            | ug/L |   | 120  | 79 - 120    |
| trans-1,3-Dichloropropene   | ND            | H                | 20.0        | 22.6      | H            | ug/L |   | 113  | 72 - 120    |
| 1,1,2-Trichloroethane       | ND            | H                | 20.0        | 23.4      | H            | ug/L |   | 117  | 80 - 120    |
| Tetrachloroethene           | ND            | *+ H F1          | 20.0        | 26.2      | H F1         | ug/L |   | 131  | 68 - 125    |
| 1,3-Dichloropropane         | ND            | H                | 20.0        | 23.7      | H            | ug/L |   | 119  | 80 - 120    |
| Chlorodibromomethane        | ND            | H F1             | 20.0        | 24.2      | H F1         | ug/L |   | 121  | 74 - 120    |
| Ethylene Dibromide          | ND            | H                | 20.0        | 23.3      | H            | ug/L |   | 116  | 80 - 120    |
| Chlorobenzene               | ND            | H F1             | 20.0        | 24.7      | H F1         | ug/L |   | 123  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | ND            | H                | 20.0        | 23.4      | H            | ug/L |   | 117  | 75 - 120    |
| Ethylbenzene                | ND            | H                | 20.0        | 24.0      | H            | ug/L |   | 120  | 78 - 120    |
| m-Xylene & p-Xylene         | ND            | H                | 40.0        | 47.5      | H            | ug/L |   | 119  | 78 - 120    |
| o-Xylene                    | ND            | H                | 20.0        | 22.9      | H            | ug/L |   | 115  | 75 - 120    |
| Styrene                     | ND            | H                | 20.0        | 19.4      | H            | ug/L |   | 97   | 78 - 120    |
| Bromoform                   | ND            | H                | 20.0        | 23.8      | H            | ug/L |   | 119  | 64 - 125    |
| Isopropylbenzene            | ND            | *+ H F1          | 20.0        | 26.7      | H F1         | ug/L |   | 133  | 75 - 121    |
| Bromobenzene                | ND            | H                | 20.0        | 23.4      | H            | ug/L |   | 117  | 79 - 120    |
| 1,1,2,2-Tetrachloroethane   | ND            | H                | 20.0        | 21.4      | H            | ug/L |   | 107  | 71 - 122    |
| 1,2,3-Trichloropropane      | ND            | H                | 20.0        | 21.6      | H            | ug/L |   | 108  | 75 - 120    |
| N-Propylbenzene             | ND            | H                | 20.0        | 23.3      | H            | ug/L |   | 117  | 72 - 122    |
| 2-Chlorotoluene             | ND            | H                | 20.0        | 22.6      | H            | ug/L |   | 113  | 73 - 120    |
| 4-Chlorotoluene             | ND            | H                | 20.0        | 22.9      | H            | ug/L |   | 115  | 76 - 120    |
| tert-Butylbenzene           | ND            | H                | 20.0        | 22.4      | H            | ug/L |   | 112  | 64 - 122    |
| 1,2,4-Trimethylbenzene      | ND            | H                | 20.0        | 21.8      | H            | ug/L |   | 109  | 69 - 120    |
| sec-Butylbenzene            | ND            | H                | 20.0        | 23.2      | H            | ug/L |   | 116  | 68 - 125    |
| 4-Isopropyltoluene          | ND            | H                | 20.0        | 22.4      | H            | ug/L |   | 112  | 68 - 122    |
| 1,3-Dichlorobenzene         | ND            | H                | 20.0        | 22.9      | H            | ug/L |   | 115  | 77 - 120    |
| 1,4-Dichlorobenzene         | ND            | H                | 20.0        | 23.2      | H            | ug/L |   | 116  | 79 - 120    |
| n-Butylbenzene              | ND            | H                | 20.0        | 23.1      | H            | ug/L |   | 115  | 66 - 121    |
| 1,2-Dichlorobenzene         | ND            | H                | 20.0        | 22.0      | H            | ug/L |   | 110  | 75 - 120    |
| 1,2-Dibromo-3-Chloropropane | ND            | H                | 20.0        | 21.4      | H            | ug/L |   | 107  | 57 - 120    |
| 1,2,4-Trichlorobenzene      | ND            | H                | 20.0        | 20.3      | H            | ug/L |   | 102  | 65 - 123    |
| Hexachlorobutadiene         | ND            | *+ H F1          | 20.0        | 26.3      | H F1         | ug/L |   | 131  | 64 - 127    |
| Naphthalene                 | ND            | H                | 20.0        | 18.6      | H            | ug/L |   | 93   | 62 - 120    |
| 1,2,3-Trichlorobenzene      | ND            | H                | 20.0        | 19.3      | H            | ug/L |   | 96   | 65 - 126    |
| 1,3,5-Trimethylbenzene      | ND            | H                | 20.0        | 22.1      | H            | ug/L |   | 111  | 68 - 120    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| Toluene-d8 (Surr)            | 100          |              | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 80 - 120 |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 651462

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Surrogate                   | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|-----------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene (Surr) | 100             |                 | 80 - 120 |
| Dibromofluoromethane (Surr) | 108             |                 | 80 - 120 |

Lab Sample ID: 580-150519-6 MSD

Matrix: Water

Analysis Batch: 651462

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte                     | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|-----------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Dichlorodifluoromethane     | ND               | H F1                | 20.0           | 25.8          | H                | ug/L |   | 129  | 27 - 131       | 7   | 30           |
| Chloromethane               | ND               | H                   | 20.0           | 22.0          | H                | ug/L |   | 110  | 49 - 126       | 4   | 30           |
| Vinyl chloride              | ND               | H                   | 20.0           | 21.6          | H                | ug/L |   | 108  | 52 - 120       | 9   | 30           |
| Bromomethane                | ND               | H                   | 20.0           | 20.4          | H                | ug/L |   | 102  | 43 - 128       | 8   | 30           |
| Chloroethane                | ND               | H                   | 20.0           | 21.6          | H                | ug/L |   | 108  | 60 - 121       | 8   | 30           |
| Trichlorofluoromethane      | ND               | H F1                | 20.0           | 24.5          | H F1             | ug/L |   | 122  | 47 - 120       | 6   | 30           |
| 1,1-Dichloroethene          | ND               | H F1                | 20.0           | 26.5          | H F1             | ug/L |   | 132  | 74 - 121       | 3   | 30           |
| Carbon disulfide            | ND               | H                   | 20.0           | 22.5          | H                | ug/L |   | 112  | 75 - 132       | 3   | 30           |
| Acetone                     | ND               | H                   | 250            | 311           | H                | ug/L |   | 124  | 58 - 141       | 1   | 30           |
| Methylene Chloride          | 0.68             | J H                 | 20.0           | 24.2          | H                | ug/L |   | 118  | 77 - 120       | 1   | 30           |
| Methyl tert-butyl ether     | ND               | H                   | 20.0           | 21.4          | H                | ug/L |   | 107  | 75 - 120       | 1   | 30           |
| trans-1,2-Dichloroethene    | ND               | H F1                | 20.0           | 25.0          | H F1             | ug/L |   | 125  | 74 - 120       | 1   | 30           |
| 1,1-Dichloroethane          | ND               | H F1                | 20.0           | 25.5          | H F1             | ug/L |   | 128  | 74 - 120       | 0   | 30           |
| 2,2-Dichloropropane         | ND               | H                   | 20.0           | 24.7          | H                | ug/L |   | 123  | 65 - 125       | 0   | 30           |
| cis-1,2-Dichloroethene      | ND               | H                   | 20.0           | 23.5          | H                | ug/L |   | 118  | 81 - 121       | 1   | 30           |
| 2-Butanone (MEK)            | ND               | H                   | 250            | 304           | H                | ug/L |   | 122  | 65 - 131       | 1   | 30           |
| Chlorobromomethane          | ND               | H                   | 20.0           | 24.4          | H                | ug/L |   | 122  | 76 - 126       | 2   | 30           |
| Chloroform                  | 160              | H                   | 20.0           | 175           | H 4              | ug/L |   | 60   | 74 - 120       | 3   | 30           |
| 1,1,1-Trichloroethane       | ND               | H F1                | 20.0           | 25.5          | H F1             | ug/L |   | 127  | 68 - 120       | 2   | 30           |
| Carbon tetrachloride        | ND               | H F1                | 20.0           | 26.8          | H F1             | ug/L |   | 134  | 63 - 128       | 2   | 30           |
| 1,1-Dichloropropene         | ND               | H F1                | 20.0           | 25.0          | H F1             | ug/L |   | 125  | 76 - 120       | 1   | 30           |
| Benzene                     | ND               | H                   | 20.0           | 23.3          | H                | ug/L |   | 117  | 81 - 120       | 2   | 30           |
| 1,2-Dichloroethane          | ND               | H F1                | 20.0           | 24.6          | H F1             | ug/L |   | 123  | 69 - 120       | 2   | 30           |
| Trichloroethene             | ND               | H F1                | 20.0           | 24.4          | H F1             | ug/L |   | 122  | 76 - 120       | 2   | 30           |
| 1,2-Dichloropropane         | ND               | H                   | 20.0           | 23.8          | H                | ug/L |   | 119  | 77 - 120       | 0   | 30           |
| Dibromomethane              | ND               | H                   | 20.0           | 23.9          | H                | ug/L |   | 119  | 76 - 120       | 0   | 30           |
| Dichlorobromomethane        | 0.48             | J H F1              | 20.0           | 24.8          | H F1             | ug/L |   | 122  | 73 - 120       | 0   | 30           |
| cis-1,3-Dichloropropene     | ND               | H                   | 20.0           | 22.3          | H                | ug/L |   | 111  | 71 - 120       | 0   | 30           |
| 4-Methyl-2-pentanone (MIBK) | ND               | H                   | 250            | 315           | H                | ug/L |   | 126  | 66 - 129       | 0   | 30           |
| Toluene                     | ND               | H                   | 20.0           | 23.8          | H                | ug/L |   | 119  | 79 - 120       | 0   | 30           |
| trans-1,3-Dichloropropene   | ND               | H                   | 20.0           | 23.1          | H                | ug/L |   | 115  | 72 - 120       | 2   | 30           |
| 1,1,2-Trichloroethane       | ND               | H                   | 20.0           | 23.8          | H                | ug/L |   | 119  | 80 - 120       | 2   | 30           |
| Tetrachloroethene           | ND               | *+ H F1             | 20.0           | 25.9          | H F1             | ug/L |   | 129  | 68 - 125       | 1   | 30           |
| 1,3-Dichloropropane         | ND               | H                   | 20.0           | 23.8          | H                | ug/L |   | 119  | 80 - 120       | 0   | 30           |
| Chlorodibromomethane        | ND               | H F1                | 20.0           | 24.0          | H                | ug/L |   | 120  | 74 - 120       | 1   | 30           |
| Ethylene Dibromide          | ND               | H                   | 20.0           | 23.8          | H                | ug/L |   | 119  | 80 - 120       | 2   | 30           |
| Chlorobenzene               | ND               | H F1                | 20.0           | 24.5          | H F1             | ug/L |   | 123  | 80 - 120       | 1   | 30           |
| 1,1,1,2-Tetrachloroethane   | ND               | H                   | 20.0           | 23.2          | H                | ug/L |   | 116  | 75 - 120       | 1   | 30           |
| Ethylbenzene                | ND               | H                   | 20.0           | 23.6          | H                | ug/L |   | 118  | 78 - 120       | 2   | 30           |
| m-Xylene & p-Xylene         | ND               | H                   | 40.0           | 47.4          | H                | ug/L |   | 118  | 78 - 120       | 0   | 30           |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-150519-6 MSD

Matrix: Water

Analysis Batch: 651462

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| o-Xylene                    | ND            | H                | 20.0        | 22.8       | H             | ug/L |   | 114  | 75 - 120    | 1   | 30        |
| Styrene                     | ND            | H                | 20.0        | 18.9       | H             | ug/L |   | 95   | 78 - 120    | 2   | 30        |
| Bromoform                   | ND            | H                | 20.0        | 23.7       | H             | ug/L |   | 118  | 64 - 125    | 1   | 30        |
| Isopropylbenzene            | ND            | *+ H F1          | 20.0        | 26.3       | H F1          | ug/L |   | 132  | 75 - 121    | 1   | 30        |
| Bromobenzene                | ND            | H                | 20.0        | 23.9       | H             | ug/L |   | 120  | 79 - 120    | 2   | 30        |
| 1,1,2,2-Tetrachloroethane   | ND            | H                | 20.0        | 21.6       | H             | ug/L |   | 108  | 71 - 122    | 1   | 30        |
| 1,2,3-Trichloropropane      | ND            | H                | 20.0        | 22.8       | H             | ug/L |   | 114  | 75 - 120    | 5   | 30        |
| N-Propylbenzene             | ND            | H                | 20.0        | 23.8       | H             | ug/L |   | 119  | 72 - 122    | 2   | 30        |
| 2-Chlorotoluene             | ND            | H                | 20.0        | 23.2       | H             | ug/L |   | 116  | 73 - 120    | 2   | 30        |
| 4-Chlorotoluene             | ND            | H                | 20.0        | 23.6       | H             | ug/L |   | 118  | 76 - 120    | 3   | 30        |
| tert-Butylbenzene           | ND            | H                | 20.0        | 23.0       | H             | ug/L |   | 115  | 64 - 122    | 3   | 30        |
| 1,2,4-Trimethylbenzene      | ND            | H                | 20.0        | 22.3       | H             | ug/L |   | 112  | 69 - 120    | 2   | 30        |
| sec-Butylbenzene            | ND            | H                | 20.0        | 23.5       | H             | ug/L |   | 117  | 68 - 125    | 1   | 30        |
| 4-Isopropyltoluene          | ND            | H                | 20.0        | 22.4       | H             | ug/L |   | 112  | 68 - 122    | 0   | 30        |
| 1,3-Dichlorobenzene         | ND            | H                | 20.0        | 23.7       | H             | ug/L |   | 118  | 77 - 120    | 3   | 30        |
| 1,4-Dichlorobenzene         | ND            | H                | 20.0        | 23.8       | H             | ug/L |   | 119  | 79 - 120    | 2   | 30        |
| n-Butylbenzene              | ND            | H                | 20.0        | 23.2       | H             | ug/L |   | 116  | 66 - 121    | 1   | 30        |
| 1,2-Dichlorobenzene         | ND            | H                | 20.0        | 22.6       | H             | ug/L |   | 113  | 75 - 120    | 3   | 30        |
| 1,2-Dibromo-3-Chloropropane | ND            | H                | 20.0        | 21.9       | H             | ug/L |   | 110  | 57 - 120    | 3   | 30        |
| 1,2,4-Trichlorobenzene      | ND            | H                | 20.0        | 21.0       | H             | ug/L |   | 105  | 65 - 123    | 3   | 30        |
| Hexachlorobutadiene         | ND            | *+ H F1          | 20.0        | 25.7       | H F1          | ug/L |   | 128  | 64 - 127    | 2   | 30        |
| Naphthalene                 | ND            | H                | 20.0        | 19.0       | H             | ug/L |   | 95   | 62 - 120    | 2   | 30        |
| 1,2,3-Trichlorobenzene      | ND            | H                | 20.0        | 19.7       | H             | ug/L |   | 98   | 65 - 126    | 2   | 30        |
| 1,3,5-Trimethylbenzene      | ND            | H                | 20.0        | 22.5       | H             | ug/L |   | 113  | 68 - 120    | 2   | 30        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 100           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 102           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 98            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 106           |               | 80 - 120 |

Lab Sample ID: MB 410-652101/9

Matrix: Water

Analysis Batch: 652101

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane  | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chloromethane            | ND        |              | 2.0 | 0.55 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Vinyl chloride           | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Bromomethane             | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chloroethane             | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Trichlorofluoromethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1-Dichloroethene       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Carbon disulfide         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Acetone                  | ND        |              | 20  | 0.70 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Methylene Chloride       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Methyl tert-butyl ether  | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| trans-1,2-Dichloroethene | ND        |              | 2.0 | 0.70 | ug/L |   |          | 06/03/25 13:59 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-652101/9

Matrix: Water

Analysis Batch: 652101

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 2,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 2-Butanone (MEK)            | ND        |              | 10  | 1.0  | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chlorobromomethane          | ND        |              | 5.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chloroform                  | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1,1-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Carbon tetrachloride        | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1-Dichloropropene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Benzene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2-Dichloroethane          | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Trichloroethene             | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Dibromomethane              | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Dichlorobromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 10  | 0.50 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Toluene                     | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1,2-Trichloroethane       | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Tetrachloroethene           | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,3-Dichloropropane         | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chlorodibromomethane        | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Ethylene Dibromide          | ND        |              | 1.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Chlorobenzene               | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Ethylbenzene                | ND        |              | 1.0 | 0.40 | ug/L |   |          | 06/03/25 13:59 | 1       |
| m-Xylene & p-Xylene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 06/03/25 13:59 | 1       |
| o-Xylene                    | ND        |              | 1.0 | 0.40 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Styrene                     | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Bromoform                   | ND        |              | 4.0 | 1.0  | ug/L |   |          | 06/03/25 13:59 | 1       |
| Isopropylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Bromobenzene                | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND        |              | 1.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2,3-Trichloropropane      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| N-Propylbenzene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 2-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 4-Chlorotoluene             | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| tert-Butylbenzene           | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2,4-Trimethylbenzene      | ND        |              | 5.0 | 1.0  | ug/L |   |          | 06/03/25 13:59 | 1       |
| sec-Butylbenzene            | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 4-Isopropyltoluene          | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 5.0 | 0.68 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| n-Butylbenzene              | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 5.0 | 0.20 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2,4-Trichlorobenzene      | ND        |              | 5.0 | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Hexachlorobutadiene         | ND        |              | 5.0 | 2.0  | ug/L |   |          | 06/03/25 13:59 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-652101/9

Matrix: Water

Analysis Batch: 652101

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| Naphthalene                  | ND           |              | 5.0      | 1.0  | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,2,3-Trichlorobenzene       | ND           |              | 5.0      | 0.40 | ug/L |   |          | 06/03/25 13:59 | 1       |
| 1,3,5-Trimethylbenzene       | ND           |              | 5.0      | 0.30 | ug/L |   |          | 06/03/25 13:59 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| Toluene-d8 (Surr)            | 99           |              | 80 - 120 |      |      |   |          | 06/03/25 13:59 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 105          |              | 80 - 120 |      |      |   |          | 06/03/25 13:59 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97           |              | 80 - 120 |      |      |   |          | 06/03/25 13:59 | 1       |
| Dibromofluoromethane (Surr)  | 105          |              | 80 - 120 |      |      |   |          | 06/03/25 13:59 | 1       |

Lab Sample ID: LCS 410-652101/7

Matrix: Water

Analysis Batch: 652101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Dichlorodifluoromethane     | 20.0        | 19.0       |               | ug/L |   | 95   | 26 - 127    |
| Chloromethane               | 20.0        | 18.6       |               | ug/L |   | 93   | 39 - 134    |
| Vinyl chloride              | 20.0        | 18.1       |               | ug/L |   | 90   | 56 - 120    |
| Bromomethane                | 20.0        | 18.3       |               | ug/L |   | 92   | 53 - 128    |
| Chloroethane                | 20.0        | 18.6       |               | ug/L |   | 93   | 55 - 123    |
| Trichlorofluoromethane      | 20.0        | 19.6       |               | ug/L |   | 98   | 51 - 120    |
| 1,1-Dichloroethene          | 20.0        | 22.3       |               | ug/L |   | 111  | 80 - 131    |
| Carbon disulfide            | 20.0        | 21.5       |               | ug/L |   | 108  | 65 - 128    |
| Acetone                     | 250         | 303        |               | ug/L |   | 121  | 57 - 143    |
| Methylene Chloride          | 20.0        | 21.0       |               | ug/L |   | 105  | 80 - 120    |
| Methyl tert-butyl ether     | 20.0        | 19.2       |               | ug/L |   | 96   | 69 - 122    |
| trans-1,2-Dichloroethene    | 20.0        | 21.4       |               | ug/L |   | 107  | 80 - 126    |
| 1,1-Dichloroethane          | 20.0        | 21.4       |               | ug/L |   | 107  | 80 - 120    |
| 2,2-Dichloropropane         | 20.0        | 20.3       |               | ug/L |   | 101  | 63 - 129    |
| cis-1,2-Dichloroethene      | 20.0        | 20.4       |               | ug/L |   | 102  | 80 - 125    |
| 2-Butanone (MEK)            | 250         | 272        |               | ug/L |   | 109  | 59 - 135    |
| Chlorobromomethane          | 20.0        | 21.1       |               | ug/L |   | 106  | 80 - 120    |
| Chloroform                  | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120    |
| 1,1,1-Trichloroethane       | 20.0        | 21.5       |               | ug/L |   | 108  | 73 - 120    |
| Carbon tetrachloride        | 20.0        | 22.2       |               | ug/L |   | 111  | 64 - 134    |
| 1,1-Dichloropropene         | 20.0        | 20.8       |               | ug/L |   | 104  | 78 - 120    |
| Benzene                     | 20.0        | 20.4       |               | ug/L |   | 102  | 80 - 120    |
| 1,2-Dichloroethane          | 20.0        | 21.7       |               | ug/L |   | 109  | 73 - 124    |
| Trichloroethene             | 20.0        | 21.3       |               | ug/L |   | 106  | 80 - 120    |
| 1,2-Dichloropropane         | 20.0        | 20.5       |               | ug/L |   | 102  | 80 - 120    |
| Dibromomethane              | 20.0        | 21.4       |               | ug/L |   | 107  | 80 - 120    |
| Dichlorobromomethane        | 20.0        | 21.3       |               | ug/L |   | 107  | 71 - 120    |
| cis-1,3-Dichloropropene     | 20.0        | 19.7       |               | ug/L |   | 99   | 75 - 120    |
| 4-Methyl-2-pentanone (MIBK) | 250         | 263        |               | ug/L |   | 105  | 62 - 133    |
| Toluene                     | 20.0        | 20.9       |               | ug/L |   | 105  | 80 - 120    |
| trans-1,3-Dichloropropene   | 20.0        | 20.3       |               | ug/L |   | 102  | 67 - 120    |
| 1,1,2-Trichloroethane       | 20.0        | 21.6       |               | ug/L |   | 108  | 80 - 120    |
| Tetrachloroethene           | 20.0        | 22.3       |               | ug/L |   | 112  | 80 - 120    |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-652101/7

Matrix: Water

Analysis Batch: 652101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,3-Dichloropropane         | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120    |
| Chlorodibromomethane        | 20.0        | 21.1       |               | ug/L |   | 106  | 71 - 120    |
| Ethylene Dibromide          | 20.0        | 21.7       |               | ug/L |   | 109  | 77 - 120    |
| Chlorobenzene               | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120    |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 20.6       |               | ug/L |   | 103  | 79 - 120    |
| Ethylbenzene                | 20.0        | 20.8       |               | ug/L |   | 104  | 80 - 120    |
| m-Xylene & p-Xylene         | 40.0        | 41.7       |               | ug/L |   | 104  | 80 - 120    |
| o-Xylene                    | 20.0        | 20.1       |               | ug/L |   | 101  | 80 - 120    |
| Styrene                     | 20.0        | 20.5       |               | ug/L |   | 102  | 80 - 120    |
| Bromoform                   | 20.0        | 20.9       |               | ug/L |   | 104  | 51 - 120    |
| Isopropylbenzene            | 20.0        | 23.4       |               | ug/L |   | 117  | 80 - 120    |
| Bromobenzene                | 20.0        | 21.6       |               | ug/L |   | 108  | 80 - 120    |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 20.5       |               | ug/L |   | 103  | 72 - 120    |
| 1,2,3-Trichloropropane      | 20.0        | 21.1       |               | ug/L |   | 106  | 75 - 124    |
| N-Propylbenzene             | 20.0        | 21.9       |               | ug/L |   | 110  | 79 - 121    |
| 2-Chlorotoluene             | 20.0        | 20.9       |               | ug/L |   | 105  | 80 - 120    |
| 4-Chlorotoluene             | 20.0        | 21.5       |               | ug/L |   | 107  | 80 - 120    |
| tert-Butylbenzene           | 20.0        | 20.5       |               | ug/L |   | 103  | 78 - 120    |
| 1,2,4-Trimethylbenzene      | 20.0        | 20.7       |               | ug/L |   | 104  | 75 - 120    |
| sec-Butylbenzene            | 20.0        | 21.8       |               | ug/L |   | 109  | 77 - 120    |
| 4-Isopropyltoluene          | 20.0        | 21.2       |               | ug/L |   | 106  | 76 - 120    |
| 1,3-Dichlorobenzene         | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120    |
| 1,4-Dichlorobenzene         | 20.0        | 21.6       |               | ug/L |   | 108  | 80 - 120    |
| n-Butylbenzene              | 20.0        | 21.6       |               | ug/L |   | 108  | 76 - 120    |
| 1,2-Dichlorobenzene         | 20.0        | 20.7       |               | ug/L |   | 104  | 80 - 120    |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 19.8       |               | ug/L |   | 99   | 60 - 120    |
| 1,2,4-Trichlorobenzene      | 20.0        | 20.4       |               | ug/L |   | 102  | 63 - 120    |
| Hexachlorobutadiene         | 20.0        | 24.0       |               | ug/L |   | 120  | 63 - 120    |
| Naphthalene                 | 20.0        | 19.0       |               | ug/L |   | 95   | 67 - 124    |
| 1,2,3-Trichlorobenzene      | 20.0        | 19.6       |               | ug/L |   | 98   | 66 - 120    |
| 1,3,5-Trimethylbenzene      | 20.0        | 21.1       |               | ug/L |   | 106  | 75 - 120    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr)            | 98            |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 104           |               | 80 - 120 |
| 4-Bromofluorobenzene (Surr)  | 95            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 103           |               | 80 - 120 |

## Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 570-573426/16

Matrix: Water

Analysis Batch: 573426

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND        |              | 2.0 | 0.91 | ug/L |   |          | 05/20/25 18:06 | 1       |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: LCS 570-573426/17

Matrix: Water

Analysis Batch: 573426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| Perchlorate | 25.0        | 24.3       |               | ug/L |   | 97   | 85 - 115    |

Lab Sample ID: LCSD 570-573426/18

Matrix: Water

Analysis Batch: 573426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 25.0        | 24.2        |                | ug/L |   | 97   | 85 - 115    | 0   | 15        |

Lab Sample ID: MB 570-574044/8

Matrix: Water

Analysis Batch: 574044

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Perchlorate | ND        |              | 2.0 | 0.91 | ug/L |   |          | 05/21/25 15:01 | 1       |

Lab Sample ID: LCS 570-574044/9

Matrix: Water

Analysis Batch: 574044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| Perchlorate | 25.0        | 23.6       |               | ug/L |   | 94   | 85 - 115    |

Lab Sample ID: LCSD 570-574044/10

Matrix: Water

Analysis Batch: 574044

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perchlorate | 25.0        | 24.6        |                | ug/L |   | 98   | 85 - 115    | 4   | 15        |

## Method: 314.0 - Perchlorate (IC) - DL

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 573426

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Perchlorate - DL | 13000         | E                | 1000        | 14600     | E 4          | ug/L |   | 117  | 80 - 120    |

Lab Sample ID: 580-150519-6 MSD

Matrix: Water

Analysis Batch: 573426

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte          | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perchlorate - DL | 13000         | E                | 1000        | 14500      | E 4           | ug/L |   | 111  | 80 - 120    | 0   | 15        |

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# QC Sample Results

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Method: 314.0 - Perchlorate (IC) - DL (Continued)

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 574044

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |  |
|------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|
| Perchlorate - DL | 12000         |                  | 10000       | 22200     |              | ug/L |   | 101  | 80 - 120    |  |

Lab Sample ID: 580-150519-6 MSD

Matrix: Water

Analysis Batch: 574044

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte          | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perchlorate - DL | 12000         |                  | 10000       | 22300      |               | ug/L |   | 102  | 80 - 120    | 1   | 15        |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-494327/23

Matrix: Water

Analysis Batch: 494327

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | ND        |              | 1.5 | 0.43 | mg/L |   |          | 06/05/25 03:17 | 1       |

Lab Sample ID: LCS 580-494327/24

Matrix: Water

Analysis Batch: 494327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |  |
|----------|-------------|------------|---------------|------|---|------|-------------|--|
| Chloride | 50.0        | 51.4       |               | mg/L |   | 103  | 90 - 110    |  |

Lab Sample ID: LCSD 580-494327/27

Matrix: Water

Analysis Batch: 494327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 50.0        | 51.4        |                | mg/L |   | 103  | 90 - 110    | 0   | 15        |

Lab Sample ID: 580-150519-6 MS

Matrix: Water

Analysis Batch: 494327

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |  |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|
| Chloride | 14000         |                  | 50.0        | 13700     | 4            | mg/L |   | -65  | 90 - 110    |  |

Lab Sample ID: 580-150519-6 MSD

Matrix: Water

Analysis Batch: 494327

Client Sample ID: MWA-56d-051425

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 14000         |                  | 50.0        | 13600      | 4             | mg/L |   | -415 | 90 - 110    | 1   | 15        |

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# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

**Client Sample ID: TB-051425A**

**Lab Sample ID: 580-150519-1**

**Date Collected: 05/14/25 00:01**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab  | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 651594       | N7YK    | ELLE | 06/02/25 14:14       |

**Client Sample ID: RB-02-051425**

**Lab Sample ID: 580-150519-2**

**Date Collected: 05/14/25 06:30**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 12:01       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 573426       | M5Z3    | EET CAL 4 | 05/20/25 21:11       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 05:04       |

**Client Sample ID: PA-20d-051425**

**Lab Sample ID: 580-150519-3**

**Date Collected: 05/14/25 07:19**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 13:23       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 573426       | M5Z3    | EET CAL 4 | 05/20/25 21:53       |
| Total/NA  | Analysis   | 300.0        |     | 10              | 494327       | FCG     | EET SEA   | 06/05/25 05:40       |

**Client Sample ID: MWA-58d-051425**

**Lab Sample ID: 580-150519-4**

**Date Collected: 05/14/25 08:11**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 13:43       |
| Total/NA  | Analysis   | 314.0        | DL  | 2000            | 574044       | YO8L    | EET CAL 4 | 05/21/25 16:03       |
| Total/NA  | Analysis   | 300.0        |     | 500             | 494327       | FCG     | EET SEA   | 06/05/25 06:52       |

**Client Sample ID: Dup-02-051425**

**Lab Sample ID: 580-150519-5**

**Date Collected: 05/14/25 08:12**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 14:03       |
| Total/NA  | Analysis   | 314.0        | DL  | 2000            | 574044       | YO8L    | EET CAL 4 | 05/21/25 16:24       |
| Total/NA  | Analysis   | 300.0        |     | 500             | 494327       | FCG     | EET SEA   | 06/05/25 07:27       |

**Client Sample ID: MWA-56d-051425**

**Lab Sample ID: 580-150519-6**

**Date Collected: 05/14/25 09:01**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 14:23       |
| Total/NA  | Analysis   | 314.0        | DL  | 400             | 574044       | YO8L    | EET CAL 4 | 05/21/25 16:45       |

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# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

**Client Sample ID: MWA-56d-051425**

**Lab Sample ID: 580-150519-6**

**Date Collected: 05/14/25 09:01**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 573426       | M5Z3    | EET CAL 4 | 05/20/25 23:57       |
| Total/NA  | Analysis   | 300.0        |     | 500             | 494327       | FCG     | EET SEA   | 06/05/25 09:15       |

**Client Sample ID: PA-21d-051425**

**Lab Sample ID: 580-150519-7**

**Date Collected: 05/14/25 10:23**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 20              | 651462       | N7YK    | ELLE      | 06/02/25 20:07       |
| Total/NA  | Analysis   | 8260D        | DL  | 200             | 651462       | N7YK    | ELLE      | 06/02/25 20:27       |
| Total/NA  | Analysis   | 8260D        | RA  | 20              | 652101       | N7YK    | ELLE      | 06/03/25 20:47       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 574044       | YO8L    | EET CAL 4 | 05/21/25 17:47       |
| Total/NA  | Analysis   | 300.0        |     | 5               | 494327       | FCG     | EET SEA   | 06/05/25 10:02       |

**Client Sample ID: PA-19d-051425**

**Lab Sample ID: 580-150519-8**

**Date Collected: 05/14/25 12:37**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 10              | 651462       | N7YK    | ELLE      | 06/02/25 19:26       |
| Total/NA  | Analysis   | 8260D        | DL  | 100             | 651462       | N7YK    | ELLE      | 06/02/25 19:47       |
| Total/NA  | Analysis   | 8260D        | RA  | 10              | 652101       | N7YK    | ELLE      | 06/03/25 21:08       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 574044       | YO8L    | EET CAL 4 | 05/21/25 18:08       |
| Total/NA  | Analysis   | 300.0        |     | 25              | 494327       | FCG     | EET SEA   | 06/05/25 11:04       |

**Client Sample ID: PA-10i-051425**

**Lab Sample ID: 580-150519-9**

**Date Collected: 05/14/25 07:26**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 5               | 651883       | JS6E    | ELLE      | 06/03/25 07:38       |
| Total/NA  | Analysis   | 314.0        | DL  | 40              | 573426       | M5Z3    | EET CAL 4 | 05/21/25 04:05       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 11:40       |

**Client Sample ID: PA-18d-051425**

**Lab Sample ID: 580-150519-10**

**Date Collected: 05/14/25 08:39**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 15:23       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 573426       | M5Z3    | EET CAL 4 | 05/21/25 04:47       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 11:52       |

Eurofins Seattle

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

**Client Sample ID: MWA-63-051425**

**Lab Sample ID: 580-150519-11**

**Date Collected: 05/14/25 10:34**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 651462       | N7YK    | ELLE      | 06/02/25 15:44       |
| Total/NA  | Analysis   | 8260D        | RA  | 1               | 652101       | N7YK    | ELLE      | 06/03/25 15:20       |
| Total/NA  | Analysis   | 314.0        | DL  | 5               | 573426       | M5Z3    | EET CAL 4 | 05/21/25 05:28       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 12:04       |

**Client Sample ID: PA-31-051425**

**Lab Sample ID: 580-150519-12**

**Date Collected: 05/14/25 11:43**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 651594       | N7YK    | ELLE      | 06/02/25 20:27       |
| Total/NA  | Analysis   | 314.0        | DL  | 10              | 573426       | M5Z3    | EET CAL 4 | 05/21/25 06:10       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 12:16       |

**Client Sample ID: PA-32i-051425**

**Lab Sample ID: 580-150519-13**

**Date Collected: 05/14/25 12:45**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 5               | 651883       | JS6E    | ELLE      | 06/03/25 07:59       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 573426       | M5Z3    | EET CAL 4 | 05/21/25 06:51       |
| Total/NA  | Analysis   | 300.0        |     | 1               | 494327       | FCG     | EET SEA   | 06/05/25 12:28       |

**Client Sample ID: MWA-11i(d)-051425**

**Lab Sample ID: 580-150519-14**

**Date Collected: 05/14/25 14:04**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260C LL     |     | 1               | 651594       | N7YK    | ELLE      | 06/02/25 20:48       |
| Total/NA  | Analysis   | 314.0        |     | 1               | 573426       | M5Z3    | EET CAL 4 | 05/21/25 07:32       |
| Total/NA  | Analysis   | 300.0        |     | 10              | 494327       | FCG     | EET SEA   | 06/05/25 12:51       |

**Client Sample ID: PA-30d-051525**

**Lab Sample ID: 580-150519-15**

**Date Collected: 05/15/25 06:44**

**Matrix: Water**

**Date Received: 05/15/25 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 5               | 651462       | N7YK    | ELLE      | 06/02/25 18:46       |
| Total/NA  | Analysis   | 8260D        | DL  | 50              | 651462       | N7YK    | ELLE      | 06/02/25 19:06       |
| Total/NA  | Analysis   | 314.0        | DL  | 100             | 573426       | M5Z3    | EET CAL 4 | 05/21/25 08:14       |
| Total/NA  | Analysis   | 300.0        |     | 5               | 494327       | FCG     | EET SEA   | 06/05/25 13:15       |

Eurofins Seattle

# Lab Chronicle

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494  
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310  
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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# Accreditation/Certification Summary

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

## Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Oregon    | NELAP   | 4167                  | 07-07-25        |

## Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority    | Program                                 | Identification Number | Expiration Date |
|--------------|-----------------------------------------|-----------------------|-----------------|
| A2LA         | Dept. of Defense ELAP                   | 7296.01               | 11-30-26        |
| Arizona      | State                                   | AZ0830                | 11-16-25        |
| Arkansas DEQ | State                                   | 88-01672              | 07-02-25        |
| California   | Los Angeles County Sanitation Districts | 9257304               | 07-31-26        |
| California   | SCAQMD LAP                              | 17LA0919              | 11-30-25        |
| California   | State                                   | 3082                  | 07-31-25        |
| Kansas       | NELAP                                   | E-10420               | 07-31-25        |
| Nevada       | State                                   | CA00111               | 07-31-25        |
| Oregon       | NELAP                                   | 4175                  | 02-02-26        |
| USDA         | US Federal Programs                     | 525-23-159-97150      | 06-08-26        |
| Utah         | NELAP                                   | CA00111               | 02-28-26        |
| Washington   | State                                   | C916                  | 10-11-25        |

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 0001.01               | 11-30-26        |
| A2LA                              | Dept. of Energy       | 0001.01               | 11-30-26        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-26        |
| Alabama                           | State                 | 43200                 | 01-31-26        |
| Alaska                            | State                 | PA00009               | 06-30-25        |
| Alaska (UST)                      | State                 | 17-027                | 12-30-26        |
| Arizona                           | State                 | AZ0780                | 03-12-26        |
| Arkansas DEQ                      | State                 | 88-00660              | 08-09-25        |
| California                        | State                 | 2792                  | 01-31-26        |
| Colorado                          | State                 | PA00009               | 06-30-25        |
| Connecticut                       | State                 | PH-0746               | 06-30-25        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-26        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-26        |
| Florida                           | NELAP                 | E87997                | 06-30-25        |
| Georgia (DW)                      | State                 | C048                  | 01-31-26        |
| Illinois                          | NELAP                 | 200027                | 01-31-26        |
| Iowa                              | State                 | 361                   | 03-01-26        |
| Kansas                            | NELAP                 | E-10151               | 10-31-25        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-25        |
| Kentucky (UST)                    | State                 | 0001.01               | 11-30-26        |
| Kentucky (WW)                     | State                 | KY90088               | 12-31-25        |
| Louisiana (All)                   | NELAP                 | 02055                 | 06-30-25        |
| Maine                             | State                 | 2019012               | 03-12-27        |
| Maryland                          | State                 | 100                   | 06-30-25        |
| Massachusetts                     | State                 | M-PA009               | 06-30-26        |
| Michigan                          | State                 | 9930                  | 01-31-26        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-25        |

Eurofins Seattle

# Accreditation/Certification Summary

Client: ERM-West

Job ID: 580-150519-1

Project/Site: Arkema - Q1 2025 Groundwater Event

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                                                       | Program             | Identification Number | Expiration Date |
|-----------------------------------------------------------------|---------------------|-----------------------|-----------------|
| Mississippi                                                     | State               | 023                   | 01-31-26        |
| Missouri                                                        | State               | 450                   | 01-31-28        |
| Montana (DW)                                                    | State               | 0098                  | 01-01-26        |
| Nebraska                                                        | State               | NE-OS-32-17           | 01-31-26        |
| New Hampshire                                                   | NELAP               | 2730                  | 06-03-25        |
| New Jersey                                                      | NELAP               | PA011                 | 06-30-25        |
| New York                                                        | NELAP               | 10670                 | 04-01-26        |
| North Carolina (DW)                                             | State               | 42705                 | 07-31-25        |
| North Carolina (WW/SW)                                          | State               | 521                   | 12-31-25        |
| North Dakota                                                    | State               | R-205                 | 01-31-24 *      |
| Oklahoma                                                        | NELAP               | 9804                  | 08-31-25        |
| Oregon                                                          | NELAP               | PA200001              | 09-11-25        |
| Pennsylvania                                                    | NELAP               | 36-00037              | 01-31-26        |
| Quebec Ministry of Environment and Fight against Climate Change | PALA                | 507                   | 09-16-29        |
| Rhode Island                                                    | State               | LAO00338              | 12-30-25        |
| South Carolina                                                  | State               | 89002                 | 01-31-26        |
| Tennessee                                                       | State               | 02838                 | 01-31-26        |
| Texas                                                           | NELAP               | T104704194-23-46      | 06-10-25        |
| USDA                                                            | US Federal Programs | 525-22-298-19481      | 10-25-25        |
| Vermont                                                         | State               | VT - 36037            | 10-28-25        |
| Virginia                                                        | NELAP               | 460182                | 06-14-26        |
| Washington                                                      | State               | C457                  | 04-11-26        |
| West Virginia (DW)                                              | State               | 9906 C                | 03-31-26        |
| West Virginia DEP                                               | State               | 055                   | 06-15-25        |
| Wyoming                                                         | State               | 8TMS-L                | 01-31-26        |
| Wyoming (UST)                                                   | A2LA                | 0001.01               | 11-30-26        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Seattle

# Sample Summary

Client: ERM-West  
Project/Site: Arkema - Q1 2025 Groundwater Event

Job ID: 580-150519-1

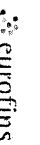
| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 580-150519-1  | TB-051425A        | Water  | 05/14/25 00:01 | 05/15/25 11:40 |
| 580-150519-2  | RB-02-051425      | Water  | 05/14/25 06:30 | 05/15/25 11:40 |
| 580-150519-3  | PA-20d-051425     | Water  | 05/14/25 07:19 | 05/15/25 11:40 |
| 580-150519-4  | MWA-58d-051425    | Water  | 05/14/25 08:11 | 05/15/25 11:40 |
| 580-150519-5  | Dup-02-051425     | Water  | 05/14/25 08:12 | 05/15/25 11:40 |
| 580-150519-6  | MWA-56d-051425    | Water  | 05/14/25 09:01 | 05/15/25 11:40 |
| 580-150519-7  | PA-21d-051425     | Water  | 05/14/25 10:23 | 05/15/25 11:40 |
| 580-150519-8  | PA-19d-051425     | Water  | 05/14/25 12:37 | 05/15/25 11:40 |
| 580-150519-9  | PA-10i-051425     | Water  | 05/14/25 07:26 | 05/15/25 11:40 |
| 580-150519-10 | PA-18d-051425     | Water  | 05/14/25 08:39 | 05/15/25 11:40 |
| 580-150519-11 | MWA-63-051425     | Water  | 05/14/25 10:34 | 05/15/25 11:40 |
| 580-150519-12 | PA-31-051425      | Water  | 05/14/25 11:43 | 05/15/25 11:40 |
| 580-150519-13 | PA-32i-051425     | Water  | 05/14/25 12:45 | 05/15/25 11:40 |
| 580-150519-14 | MWA-11i(d)-051425 | Water  | 05/14/25 14:04 | 05/15/25 11:40 |
| 580-150519-15 | PA-30d-051525     | Water  | 05/15/25 06:44 | 05/15/25 11:40 |

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## Experiments

Ver: 10/10/2024

Chain of Custody Record



|                                                  |                                                                              |                          |                                       |                         |                           |
|--------------------------------------------------|------------------------------------------------------------------------------|--------------------------|---------------------------------------|-------------------------|---------------------------|
| <b>Client Information</b>                        |                                                                              | Sampler: <b>ST/PE EP</b> | Lab PM: Caparas, Criselda             | Carrier Tracking No(s): | COC No: 560-67763-20873.4 |
| Client Contact: Paul Van Nevel                   | Phone:                                                                       |                          | E-Mail: Criselda.Caparas@eurofins.com | State of Origin:        | Page: 4444<br>Page 2 of 2 |
| Company: ERM-West                                | PWSID:                                                                       | Analysis Requested       |                                       |                         |                           |
| Address: 1050 SW 6th Avenue Suite 1650           |                                                                              | Date Date Requested:     |                                       |                         |                           |
| City: Portland                                   | TAT Requested (days):                                                        |                          |                                       |                         |                           |
| State, Zip: OR, 97204                            | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |                          |                                       |                         |                           |
| Phone: 0732445.207                               | PO #:                                                                        |                          |                                       |                         |                           |
| Email: paul.vannevel@erm.com                     | WO #:                                                                        |                          |                                       |                         |                           |
| Project Name: Arkema - Q1 2025 Groundwater Event | Project #:                                                                   |                          |                                       |                         |                           |
| Site: S50W#:                                     | 56016290                                                                     |                          |                                       |                         |                           |

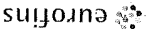
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Soil, Sediment, etc.) | Field Filtered Sample (Yes or No)   | Perform MS/MSD (Yes or No)          | 8260D - (MOD) Volatiles, standard list | 8260D_LL - (MOD) Volatiles, standard list, low level | 314.0 - Perchlorate                 | 300.0_28D - (MOD) Local Method      | Total Number of containers | Special Instructions/Note: |
|-----------------------|-------------|-------------|------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------|----------------------------|
| PA-31-051425          | 5/14/25     | 1143        | G                            | Water                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>    | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5                          |                            |
| PA-32-051425          |             | 1245        |                              | Water                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>    | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5                          |                            |
| MMWA-117(d)-051425    |             | 1404        |                              | Water                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>    | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5                          |                            |
| PA-30d-051525         | 5/15/25     | 0644        | G                            | Water                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>    | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 8                          | Dilution                   |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |
|                       |             |             |                              | Water                                |                                     |                                     |                                        |                                                      |                                     |                                     |                            |                            |

|                                                                                |                                       |                                                                                            |                                         |
|--------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Possible Hazard Identification</b>                                          |                                       | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> |                                         |
| <input type="checkbox"/> Non-Hazard                                            | <input type="checkbox"/> Flammable    | <input type="checkbox"/> Skin Irritant                                                     | <input type="checkbox"/> Poison B       |
| <input type="checkbox"/> Unknown                                               | <input type="checkbox"/> Radiological | <input type="checkbox"/> Return To Client                                                  | <input type="checkbox"/> Dispose By Lab |
| Deliverable Requested: I, II, III, IV, Other (specify)                         |                                       | Special Instructions/COC Requirements:                                                     |                                         |
| Empty Kit Relinquished by:                                                     |                                       | Method of Shipment:                                                                        |                                         |
| Relinquished by: Scott Tanager                                                 | Date/Time: 5/15/25 0915               | Received by: [Signature]                                                                   | Date/Time: 5/15/25 0915                 |
| Relinquished by: [Signature]                                                   | Date/Time: 5/15/25 1140               | Received by: [Signature]                                                                   | Date/Time: 5/15/25 1140                 |
| Relinquished by:                                                               | Date/Time:                            | Received by:                                                                               | Date/Time:                              |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Seal No.:                     | Cooler Temperature(s) °C and Other Remarks:                                                |                                         |

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

Chain of Custody Record

Environment Testing



|                                                                                     |  |                                       |  |                                             |                         |                           |  |
|-------------------------------------------------------------------------------------|--|---------------------------------------|--|---------------------------------------------|-------------------------|---------------------------|--|
| Client Information                                                                  |  | Sample: ST/FP                         |  | Lab PM: Caparas, Criselda                   | Carrier Tracking No(s): | COC No: 580-67763-20873.3 |  |
| Client Contact: Paul Van Nevel                                                      |  | Phone:                                |  | E-Mail: Criselda.Caparas@et.eurofinsus.com  | State of Origin:        | Page: 3 of 11 / 01        |  |
| ERM-West                                                                            |  | Company:                              |  | Job #:                                      |                         |                           |  |
| Address: 1050 SW 6th Avenue Suite 1650                                              |  | Due Date Requested:                   |  | Analysis Requested                          |                         |                           |  |
| City: Portland                                                                      |  | TAT Requested (days):                 |  | Preservation Codes: A - HCL, N - None       |                         |                           |  |
| State, Zip: OR, 97204                                                               |  | Compliance Project: A Yes A No        |  | Other:                                      |                         |                           |  |
| Phone: 0732445.207                                                                  |  | PO #:                                 |  | 580-150519 COC                              |                         |                           |  |
| Email: paul.vannevel@erm.com                                                        |  | Project #:                            |  | Total Number of containers                  |                         |                           |  |
| Arkema - Q1 2025 Groundwater Event                                                  |  | SSOW#:                                |  | MS/MSD                                      |                         |                           |  |
| Sample Identification                                                               |  | Sample Date                           |  | Sample Type                                 |                         | Sample Matrix             |  |
| 78-051425A                                                                          |  | 5/14/25                               |  | Water                                       |                         | G                         |  |
| RB-02-051425                                                                        |  | 0630                                  |  | Water                                       |                         | X                         |  |
| PA-02-051425                                                                        |  | 0719                                  |  | Water                                       |                         | X                         |  |
| MW-58d-051425                                                                       |  | 0811                                  |  | Water                                       |                         | X                         |  |
| DWP-02-051425                                                                       |  | 0812                                  |  | Water                                       |                         | X                         |  |
| MW-56d-051425                                                                       |  | 0901                                  |  | Water                                       |                         | X                         |  |
| PA-21d-051425                                                                       |  | 1023                                  |  | Water                                       |                         | X                         |  |
| PA-19d-051425                                                                       |  | 1237                                  |  | Water                                       |                         | X                         |  |
| PA-10f-051425                                                                       |  | 0726                                  |  | Water                                       |                         | X                         |  |
| PA-18d-051425                                                                       |  | 0839                                  |  | Water                                       |                         | X                         |  |
| PM-03-051425                                                                        |  | 1034                                  |  | Water                                       |                         | X                         |  |
| Possible Hazard Identification                                                      |  | Non-Hazard                            |  | Flammable                                   |                         | Skin Irritant             |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                              |  | Radiological                          |  | Unknown                                     |                         | Poison B                  |  |
| Special Instructions/OC Requirements:                                               |  | Return To Client                      |  | Disposal By Lab                             |                         | Archive For               |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |  | Special Instructions/OC Requirements: |  | Time:                                       |                         | Date:                     |  |
| Empty Kit Relinquished by:                                                          |  | Date:                                 |  | Time:                                       |                         | Method of Shipment:       |  |
| Relinquished by: Scotti Taraman                                                     |  | Date/Time: 5/15/25 0915               |  | Company: ERM                                |                         | Received by:              |  |
| Relinquished by:                                                                    |  | Date/Time: 5/15/25 1140               |  | Company: M.E                                |                         | Received by:              |  |
| Relinquished by:                                                                    |  | Date/Time: 5/15/25 1435               |  | Company: ERM                                |                         | Received by:              |  |
| Custody Seal Intact: A Yes A No                                                     |  | Custody Seal No.:                     |  | Cooler Temperature(s) °C and Other Remarks: |                         | Ver: 10/10/2024           |  |

## Chain of Custody Record

|                    |  |                                   |  |                      |  |                                                                                                                           |  |                                                     |  |                       |  |                                                                              |  |                                                                                       |  |                                   |  |                            |  |                                        |  |                                                       |  |                    |  |                                                                                       |  |                                   |  |                            |  |                                            |  |                                                       |  |                    |  |                                |  |                            |  |        |  |                                            |  |                            |  |
|--------------------|--|-----------------------------------|--|----------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|--|-----------------------|--|------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------|--|----------------------------------------|--|-------------------------------------------------------|--|--------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------|--|--------------------------------------------|--|-------------------------------------------------------|--|--------------------|--|--------------------------------|--|----------------------------|--|--------|--|--------------------------------------------|--|----------------------------|--|
| Client Information |  | Client Contact:<br>Paul Van Nevel |  | ERM-West<br>Company: |  | Address:<br>1050 SW 6th Avenue Suite 1650<br>Portland<br>OR, 97204<br>Phone: 503.972.0400<br>Email: paul.vannevel@erm.com |  | Project Name:<br>Arkema - Q1 2025 Groundwater Event |  | SSOW#:<br>58016290    |  | Sample Date                                                                  |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method                                                        |  | Total Number of containers        |  | Other:                     |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note:                            |  |                    |  |                                |  |                            |  |        |  |                                            |  |                            |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  | 58016290                                              |  | Sample Date        |  | Sample Type<br>(C=comp, G=grab)<br>Matrix (Water, Solid, G=grab)<br>BT=Tissue, A=Aliq |  | Field Filtered Sample (Yes or No) |  | Perform MS/MSD (Yes or No) |  | 8260D - (MOD) Volatiles, standard list     |  | 8260D, LL - (MOD) Volatiles, standard list, low level |  | 3140 - Perchlorate |  | 3000, 280 - (MOD) Local Method |  | Total Number of containers |  | Other: |  | Preservation Codes:<br>A - HCL<br>N - None |  | Special Instructions/Note: |  |
| Lab PM:            |  | E-Mail:                           |  | PWSID:               |  | Analysis Requested                                                                                                        |  | Due Date Requested:                                 |  | TAT Requested (days): |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | PO #:                                                                                 |  | 732445.207                        |  | WO #:                      |  | Project #:                             |  |                                                       |  |                    |  |                                                                                       |  |                                   |  |                            |  |                                            |  |                                                       |  |                    |  |                                |  |                            |  |        |  |                                            |  |                            |  |



Environment Test  
America

SIGNATURE

DATE

Custody Seal

ORIGIN ID: BNOA (503) 906-9200  
COOLER RETURN  
EUROFINS PORTLAND  
9725 SW COMMERCE CIR  
SUITE A2  
WILSONVILLE, OR 97070  
UNITED STATES US

SHIP DATE: 15MAY  
ACTWGT: 53.00 LB  
CAD: 0893932/CAP

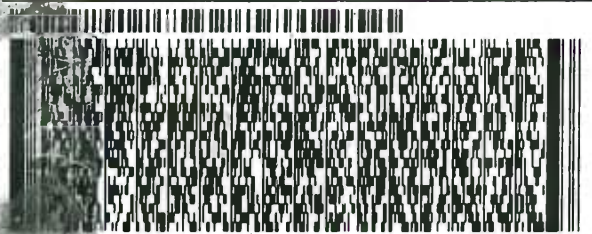
BILL THIRD PARTY

TO: **SAMPLE CONTROL**  
**EUROFINS CALSCIENCE, LLC**  
**2841 DOW AVENUE**  
**SUITE 100**  
**TUSTIN CA 92780**

(714) 895-5494

REF:

DEPT:



TRK#  
0201

4254 2767 6459

FRI - 16 MAY  
PRIORITY OVER

**WZ DTHA**

CA



2721217



Environment Testing  
TestAmerica



580-150519 Waybill

## Eurofins Seattle

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                 |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--------------------|-------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------------------|-----------------------------------|---------------------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Sampler:<br>N/A                 |                    | Lab PM:<br>Caparas, Criselda                                |                                                                    | Carrier Tracking No(s):<br>N/A                                                                                                       |                                   | COC No:<br>580-145005.1                                         |                   |                                                   |                                   |                                       |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Phone:<br>N/A                   |                    | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com               |                                                                    | State of Origin:<br>Oregon                                                                                                           |                                   | Page:<br>Page 1 of 2                                            |                   |                                                   |                                   |                                       |  |
| Company:<br>Eurofins Lancaster Laboratories Environm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                 |                    | Accreditations Required (See note):<br>NELAP - Oregon       |                                                                    |                                                                                                                                      |                                   | Job #:<br>580-150519-1                                          |                   |                                                   |                                   |                                       |  |
| Address:<br>2425 New Holland Pike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Due Date Requested:<br>6/5/2025 |                    | <b>Analysis Requested</b>                                   |                                                                    |                                                                                                                                      |                                   |                                                                 |                   | Preservation Codes:<br>.                          |                                   |                                       |  |
| City:<br>Lancaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | TAT Requested (days):<br>N/A    |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| State, Zip:<br>PA, 17601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                 |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Phone:<br>717-656-2300(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | PO #:<br>N/A                    |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | WO #:<br>N/A                    |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Project #:<br>58016290          |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   | Other:<br>N/A                                     |                                   |                                       |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | SSOW#:<br>N/A                   |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <b>Sample Date</b>              | <b>Sample Time</b> | <b>Sample Type</b><br>(C=Comp, G=grab)                      | <b>Matrix</b><br>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>8260C_LL/5030C (MOD) Volatiles, standard list, low level</b> | <b>PRE-SCREEN</b> | <b>8260D/5030C (MOD) Volatiles, standard list</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b>     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                 |                    | Preservation Code:                                          |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| TB-051425A (580-150519-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 5/14/25                         | 00:01 Pacific      | G                                                           | Water                                                              |                                                                                                                                      | X                                 | X                                                               |                   |                                                   | 2                                 |                                       |  |
| RB-02-051425 (580-150519-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 5/14/25                         | 06:30 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| PA-20d-051425 (580-150519-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/14/25                         | 07:19 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| MWA-58d-051425 (580-150519-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 5/14/25                         | 08:11 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| Dup-02-051425 (580-150519-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/14/25                         | 08:12 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| MWA-56d-051425 (580-150519-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 5/14/25                         | 09:01 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                       |  |
| MWA-56d-051425 (580-150519-6MS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 5/14/25                         | 09:01 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   |                                                                 | X                 |                                                   | 3                                 |                                       |  |
| MWA-56d-051425 (580-150519-6MSD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 5/14/25                         | 09:01 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   |                                                                 | X                 |                                                   | 3                                 |                                       |  |
| PA-21d-051425 (580-150519-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/14/25                         | 10:23 Pacific      | G                                                           | Water                                                              |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 6                                 |                                       |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.</p> |  |                                 |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 |                    |                                                             |                                                                    | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                           |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    |                                                             |                                                                    | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                 |                    |                                                             |                                                                    | Primary Deliverable Rank: 2                                                                                                          |                                   |                                                                 |                   |                                                   |                                   | Special Instructions/QC Requirements: |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                    | Date:                                                       |                                                                    | Time:                                                                                                                                |                                   | Method of Shipment:                                             |                   |                                                   |                                   |                                       |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    | Date/Time:<br>5-28-25 1600                                  |                                                                    | Company:<br>Eurofins                                                                                                                 |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    | Date/Time:                                                  |                                                                    | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                              |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    | Date/Time:                                                  |                                                                    | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:<br>5/29/25 10:15                       |                                   | Company:<br>Eurofins                  |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Custody Seal No.:               |                    | Cooler Temperature(s) °C and Other Remarks:<br>10.3.0 C-2.9 |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | No                              |                    |                                                             |                                                                    |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                       |  |

## Eurofins Seattle

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--------------------|-------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------------------|-----------------------------------|-----------------------------------|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Sampler:<br>N/A                 |                    | Lab PM:<br>Caparas, Criselda                          |                                                                     | Carrier Tracking No(s):<br>N/A                                                                                                       |                                   | COC No:<br>580-145005.2                                         |                   |                                                   |                                   |                                   |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Phone:<br>N/A                   |                    | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com         |                                                                     | State of Origin:<br>Oregon                                                                                                           |                                   | Page:<br>Page 2 of 2                                            |                   |                                                   |                                   |                                   |
| Company:<br>Eurofins Lancaster Laboratories Environm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                 |                    | Accreditations Required (See note):<br>NELAP - Oregon |                                                                     |                                                                                                                                      |                                   | Job #:<br>580-150519-1                                          |                   |                                                   |                                   |                                   |
| Address:<br>2425 New Holland Pike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Due Date Requested:<br>6/5/2025 |                    | <b>Analysis Requested</b>                             |                                                                     |                                                                                                                                      |                                   |                                                                 |                   | Preservation Codes:<br>-                          |                                   |                                   |
| City:<br>Lancaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | TAT Requested (days):<br>N/A    |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| State, Zip:<br>PA, 17601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Phone:<br>717-656-2300(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | PO #:<br>N/A                    |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | WO #:<br>N/A                    |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Project #:<br>58016290          |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | SSOW#:<br>N/A                   |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   | Other:<br>N/A                                     |                                   |                                   |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>Sample Date</b>              | <b>Sample Time</b> | <b>Sample Type<br/>(C=Comp, G=grab)</b>               | <b>Matrix<br/>(W=water, S=solid, O=waste/oil, BT=tissue, A=air)</b> | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>9260C LL/5030C (MOD) Volatiles, standard list, low level</b> | <b>PRI_SCREEN</b> | <b>9260D/5030C (MOD) Volatiles, standard list</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                    | Preservation Code:                                    |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| PA-19d-051425 (580-150519-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                         | 12:37 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   |                                                                 | X                 | X                                                 | 6                                 |                                   |
| PA-10i-051425 (580-150519-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                         | 07:26 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                   |
| PA-18d-051425 (580-150519-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 08:39 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   |                                                                 | X                 | X                                                 | 3                                 |                                   |
| MWA-63-051425 (580-150519-11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 10:34 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   |                                                                 | X                 | X                                                 | 3                                 |                                   |
| PA-31-051425 (580-150519-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                         | 11:43 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                   |
| PA-32i-051425 (580-150519-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 12:45 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                   |
| MWA-11i(d)-051425 (580-150519-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/14/25                         | 14:04 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   | X                                                               | X                 |                                                   | 3                                 |                                   |
| PA-30d-051525 (580-150519-15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/15/25                         | 06:44 Pacific      | G                                                     | Water                                                               |                                                                                                                                      |                                   |                                                                 | X                 | X                                                 | 6                                 |                                   |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    |                                                       |                                                                     | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                           |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                 |                    |                                                       |                                                                     | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                 |                    |                                                       |                                                                     | Primary Deliverable Rank: 2                                                                                                          |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Special Instructions/QC Requirements:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 |                    | Date:                                                 |                                                                     | Time:                                                                                                                                |                                   | Method of Shipment:                                             |                   |                                                   |                                   |                                   |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time: 5-28-25 1600                               |                                                                     | Company: ECH                                                                                                                         |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                          |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time:                                            |                                                                     | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time:                                        |                                   | Company:                          |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 |                    | Date/Time:                                            |                                                                     | Company:                                                                                                                             |                                   | Received by:                                                    |                   | Date/Time: 5/29/25 10:15                          |                                   | Company: ECH                      |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Custody Seal No.:               |                    | Cooler Temperature(s) °C and Other Remarks: 3.0 2.9   |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 |                    |                                                       |                                                                     |                                                                                                                                      |                                   |                                                                 |                   |                                                   |                                   |                                   |

## Eurofins Seattle

5755 8th Street East

Tacoma, WA 98424

Phone: 253-922-2310

## Chain of Custody Record



eurofins

ENV

Loc: 580

150519

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                       |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|-------------------------|-----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------|-----------------------------------|----------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Sampler:<br>N/A                                       |                         | Lab PM:<br>Caparas, Criselda                  |                                                                    | Carrier Tracking No(s):<br>N/A                                                                                                       |                                   | COC No:<br>580-144651.1   |                                   |                            |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Phone:<br>N/A                                         |                         | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com |                                                                    | State of Origin:<br>Oregon                                                                                                           |                                   | Page:<br>Page 1 of 2      |                                   |                            |  |
| Company:<br>Eurofins Environment Testing Southwest,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Accreditations Required (See note):<br>NELAP - Oregon |                         | Job #:<br>580-150519-1                        |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| Address:<br>2841 Dow Avenue, Suite 100,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Due Date Requested:<br>6/4/2025                       |                         | <b>Analysis Requested</b>                     |                                                                    |                                                                                                                                      |                                   |                           |                                   | <b>Preservation Codes:</b> |  |
| City:<br>Tustin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | TAT Requested (days):<br>N/A                          |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| State, Zip:<br>CA, 92780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                       |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| Phone:<br>714-895-5494(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | PO #:<br>N/A                                          |                         | WO #:<br>N/A                                  |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Project #:<br>58016290                                |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   | Other:<br>N/A              |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | SSOW#:<br>N/A                                         |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>Sample Date</b>                                    | <b>Sample Time</b>      | <b>Sample Type</b><br>(C=Comp, G=grab)        | <b>Matrix</b><br>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>314.0/ Perchlorate</b> | <b>Total Number of containers</b> | <b>Special Instr</b>       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                       |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| RB-02-051425 (580-150519-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 5/14/25                                               | 06:30 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| PA-20d-051425 (580-150519-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                                               | 07:19 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| MWA-58d-051425 (580-150519-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                                               | 08:11 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| Dup-02-051425 (580-150519-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                                               | 08:12 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| MWA-56d-051425 (580-150519-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                                               | 09:01 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| MWA-56d-051425 (580-150519-6MS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 5/14/25                                               | 09:01 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| MWA-56d-051425 (580-150519-6MSD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 5/14/25                                               | 09:01 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| PA-21d-051425 (580-150519-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                                               | 10:23 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| PA-19d-051425 (580-150519-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                                               | 12:37 Pacific           | G                                             | Water                                                              |                                                                                                                                      | X                                 |                           | 1                                 |                            |  |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |                                                       |                         |                                               |                                                                    |                                                                                                                                      |                                   |                           |                                   |                            |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                       |                         |                                               |                                                                    | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |                                   |                           |                                   |                            |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                       |                         |                                               |                                                                    | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                           |                                   |                            |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                       |                         |                                               |                                                                    | Special Instructions/QC Requirements:                                                                                                |                                   |                           |                                   |                            |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                       | Date:                   |                                               | Time:                                                              |                                                                                                                                      | Method of Shipment:               |                           |                                   |                            |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                       | Date/Time: 5/15/25 1409 |                                               | Company: EET                                                       |                                                                                                                                      | Received by:                      |                           | Date/Time: 5/15/25 0930           |                            |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                       | Date/Time:              |                                               | Company:                                                           |                                                                                                                                      | Received by:                      |                           | Date/Time:                        |                            |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                       | Date/Time:              |                                               | Company:                                                           |                                                                                                                                      | Received by:                      |                           | Date/Time:                        |                            |  |
| Custody Seals Intact:<br>Δ Yes Δ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Custody Seal No.:                                     |                         |                                               |                                                                    | Cooler Temperature(s) °C and Other Remarks: 0.1 / 1.1 IRgn                                                                           |                                   |                           |                                   |                            |  |

## Eurofins Seattle

5755 8th Street East

Tacoma, WA 98424

Phone: 253-922-2310

## Chain of Custody Record



Environment Testing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|-------------------------|-------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------|-----------------------------------|-----------------------------------|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Sampler:<br>N/A                 |                         | Lab PM:<br>Caparas, Criselda                          |                                                                     | Carrier Tracking No(s):<br>N/A                                                                                                       |                                   | COC No:<br>580-144651.2   |                                   |                                   |  |
| Client Contact:<br>Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Phone:<br>N/A                   |                         | E-Mail:<br>Criselda.Caparas@et.eurofinsus.com         |                                                                     | State of Origin:<br>Oregon                                                                                                           |                                   | Page:<br>Page 2 of 2      |                                   |                                   |  |
| Company:<br>Eurofins Environment Testing Southwest,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                 |                         | Accreditations Required (See note):<br>NELAP - Oregon |                                                                     |                                                                                                                                      |                                   | Job #:<br>580-150519-1    |                                   |                                   |  |
| Address:<br>2841 Dow Avenue, Suite 100,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Due Date Requested:<br>6/4/2025 |                         | <b>Analysis Requested</b>                             |                                                                     |                                                                                                                                      |                                   |                           |                                   | Preservation Codes:<br>-          |  |
| City:<br>Tustin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | TAT Requested (days):<br>N/A    |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| State, Zip:<br>CA, 92780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| Phone:<br>714-895-5494(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | PO #:<br>N/A                    |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| Email:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | WO #:<br>N/A                    |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| Project Name:<br>Arkema - Q1 2025 Groundwater Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Project #:<br>58016290          |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   | Other:<br>N/A                     |  |
| Site:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | SSOW#:<br>N/A                   |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>Sample Date</b>              | <b>Sample Time</b>      | <b>Sample Type<br/>(C=Comp, G=grab)</b>               | <b>Matrix<br/>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b> | <b>Field Filtered Sample (Yes or No)</b>                                                                                             | <b>Perform MS/MSD (Yes or No)</b> | <b>314.0l Perchlorate</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                         | Preservation Code:                                    |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| PA-10i-051425 (580-150519-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                         | 07:26 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| PA-18d-051425 (580-150519-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 08:39 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| MWA-63-051425 (580-150519-11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 10:34 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| PA-31-051425 (580-150519-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 5/14/25                         | 11:43 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| PA-32i-051425 (580-150519-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/14/25                         | 12:45 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| MWA-11i(d)-051425 (580-150519-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5/14/25                         | 14:04 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
| PA-30d-051525 (580-150519-15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 5/15/25                         | 06:44 Pacific           | G                                                     | Water                                                               |                                                                                                                                      | X                                 |                           |                                   | 1                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC. |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                 |                         |                                                       |                                                                     | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>                                          |                                   |                           |                                   |                                   |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                 |                         |                                                       |                                                                     | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                   |                           |                                   |                                   |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                 |                         |                                                       |                                                                     | Special Instructions/QC Requirements:                                                                                                |                                   |                           |                                   |                                   |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                 | Date:                   |                                                       | Time:                                                               |                                                                                                                                      | Method of Shipment:               |                           |                                   |                                   |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 | Date/Time: 5/15/25 1409 |                                                       | Company: EET                                                        |                                                                                                                                      | Received by:                      |                           | Date/Time: 5/15/25 0900           |                                   |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 | Date/Time:              |                                                       | Company:                                                            |                                                                                                                                      | Received by:                      |                           | Date/Time:                        |                                   |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                 | Date/Time:              |                                                       | Company:                                                            |                                                                                                                                      | Received by:                      |                           | Date/Time:                        |                                   |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Custody Seal No.:               |                         | Cooler Temperature(s) °C and Other Remarks: 0-1/1-1   |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                 |                         |                                                       |                                                                     |                                                                                                                                      |                                   |                           |                                   |                                   |  |

## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150519-1

**Login Number: 150519**

**List Number: 1**

**Creator: O'Connell, Jason I**

**List Source: Eurofins Seattle**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150519-1

**Login Number: 150519**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 05/16/25 11:40 AM**

| Question                                                                                 | Answer | Comment                            |
|------------------------------------------------------------------------------------------|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |                                    |
| The cooler's custody seal, if present, is intact.                                        | True   | 2721217                            |
| Sample custody seals, if present, are intact.                                            | N/A    |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                    |
| Samples were received on ice.                                                            | True   |                                    |
| Cooler Temperature is acceptable.                                                        | True   |                                    |
| Cooler Temperature is recorded.                                                          | True   | 1.1                                |
| COC is present.                                                                          | True   |                                    |
| COC is filled out in ink and legible.                                                    | True   |                                    |
| COC is filled out with all pertinent information.                                        | True   |                                    |
| Is the Field Sampler's name present on COC?                                              | N/A    | Received project as a subcontract. |
| There are no discrepancies between the containers received and the COC.                  | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                    |
| Sample containers have legible labels.                                                   | True   |                                    |
| Containers are not broken or leaking.                                                    | True   |                                    |
| Sample collection date/times are provided.                                               | True   |                                    |
| Appropriate sample containers are used.                                                  | True   |                                    |
| Sample bottles are completely filled.                                                    | True   |                                    |
| Sample Preservation Verified.                                                            | True   |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                    |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                    |
| Multiphasic samples are not present.                                                     | True   |                                    |
| Samples do not require splitting or compositing.                                         | True   |                                    |
| Residual Chlorine Checked.                                                               | N/A    |                                    |

## Login Sample Receipt Checklist

Client: ERM-West

Job Number: 580-150519-1

Login Number: 150519

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 3

List Creation: 05/29/25 10:48 AM

Creator: Santiago, Nathaniel

| Question                                                                                                | Answer | Comment                            |
|---------------------------------------------------------------------------------------------------------|--------|------------------------------------|
| The cooler's custody seal is intact.                                                                    | True   |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.                          | True   |                                    |
| Samples were received on ice.                                                                           | True   |                                    |
| Cooler Temperature acceptable, where thermal pres is required ( $\leq 6^{\circ}\text{C}$ , not frozen). | True   |                                    |
| Cooler Temperature is recorded.                                                                         | True   |                                    |
| WV: Container Temp acceptable, where thermal pres is required ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                    |
| WV: Container Temperature is recorded.                                                                  | N/A    |                                    |
| COC is present.                                                                                         | True   |                                    |
| COC is filled out in ink and legible.                                                                   | True   |                                    |
| COC is filled out with all pertinent information.                                                       | True   |                                    |
| There are no discrepancies between the containers received and the COC.                                 | True   |                                    |
| Sample containers have legible labels.                                                                  | True   |                                    |
| Containers are not broken or leaking.                                                                   | True   |                                    |
| Sample collection date/times are provided.                                                              | True   |                                    |
| Appropriate sample containers are used.                                                                 | True   |                                    |
| Sample bottles are completely filled.                                                                   | True   |                                    |
| There is sufficient vol. for all requested analyses.                                                    | True   |                                    |
| Is the Field Sampler's name present on COC?                                                             | False  | Received project as a subcontract. |
| Sample custody seals are intact.                                                                        | N/A    |                                    |
| VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?                   | N/A    |                                    |



## APPENDIX C DATA VALIDATION MEMOS



## MEMO

|           |                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TO        | Sarah Seekins                                                                                                                                                       |
| FROM      | Isaac Barraza                                                                                                                                                       |
| DATE      | 2025-07-02                                                                                                                                                          |
| REFERENCE | 0773823                                                                                                                                                             |
| SUBJECT   | Data Review of Arkema, Second Quarter 2025 Groundwater. Samples Collected May 12-15, 2025: Eurofins, Data Package(s) 580-150469-1 Rev (1) and 580-150519-1 Rev (1). |

Environmental Resources Management, Inc. (ERM) assessed the data quality and applied any necessary qualifiers following the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, November 2020 and *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, November 2020. Field duplicates were assessed following *Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures*, September 2020.

ERM performed a Stage 2A data validation on 100 percent of the laboratory data.

ERM reviewed the following items as part of the data validation.

- **Chain of Custody:** The chains of custody were reviewed for proper completion and that the laboratory performed the requested methods and reported the requested target analytes for each sample.
- **Dilutions and Reanalysis:** Dilutions, calibration ranges, and reanalyses were reviewed as applicable. The best result was chosen when more than one result was reported as final.
- **Case Narrative:** The case narrative was reviewed for comments and any necessary qualifiers added.
- **Sample Preservation:** The appropriate temperature and chemical preservation requirements were reviewed. Headspace for volatile sample analysis was reviewed, if applicable.
- **Holding Times:** The period of time between collection of the sample and preparation/analysis of the sample was evaluated.
- **Laboratory Blank Samples:** The preparation and analysis of reagent (contaminant-free) water was evaluated, along with the required frequency.

- **Field Blank Samples:** The collection and analysis of field blanks was evaluated. The reviewed data package(s) included the following associated field blanks: trip and rinse.
- **Laboratory Control Spike Samples:** Laboratory control spike sample preparation frequency and recoveries were reviewed as applicable.
- **Matrix Spike Samples:** Matrix spike and post digestion spike sample preparation frequency and recoveries were reviewed as applicable.
- **Surrogate Spikes:** The addition of appropriate surrogates and their recoveries were evaluated.
- **Field Duplicate Samples:** Field duplicate recoveries and/or absolute differences were reviewed as applicable.

Data validation findings are summarized in the sections below. As necessary, the following data quality flags were applied during validation. Professional judgment was used when multiple flags were applied to one result; therefore, the final flag may differ from the one presented in an individual table.

- J = estimated concentration
- J+ = the result is an estimated concentration, but may be biased high
- J- = the result is an estimated concentration, but may be biased low
- UJ = estimated reporting limit
- U = evaluated to be non-detected at the reporting limit
- R = rejected, data not usable
- NJ = tentative identification and estimated concentration

Validation outliers and any necessary data qualifications are summarized in tables at the end of this memo. The table below indicates the included validation tables with findings.

#### List of Attached Tables

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Table 1: Samples with Non-Preferred Results

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Table 2: Case Narrative Evaluation

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Table 3: Preservation Evaluation

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Table 4: Holding Time Evaluation

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Table 5: Laboratory Blank Evaluation

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Table 6: Field Blank Evaluation

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**List of Attached Tables**

Table 7: Laboratory Control Spike Evaluation

Table 8: Matrix Spike Evaluation

Table 9: Field Duplicate Evaluation

Table 10: Calibration Range Evaluation

## CHAIN-OF-CUSTODY DISCREPANCIES

The laboratory did not note discrepancies between the chains-of-custody and the received sample containers.

## SAMPLES WITH NON-PREFERRED RESULTS

Samples referenced in Table 1 had more than one final result reported for a single analyte and method combination due to the following possible reasons.

- Analysis result outside of calibration range; result within calibration range preferred

Non-preferred results are considered not reportable and should not be used for reporting or for decision making purposes. Non-preferred results have been excluded from the subsequent outlier tables in this report.

## CASE NARRATIVE EVALUATION

The laboratory observed additional issues encountered during sample preparation or analysis as noted in Table 2.

## PRESERVATION EVALUATION

The laboratory received the sample shipments in good condition, within the method-prescribed temperature preservation requirements of less than 6°C, with acceptable pH values, and, as applicable, all vials for volatile analysis were received with no documented headspace, with the exceptions and any necessary qualifications noted in Table 3.

Sample preservation situations requiring additional professional judgement are detailed below.

- The laboratory reports that headspace was found in some of the sample containers. No qualifications were necessary as there were sufficient containers without headspace to perform the requested analyses.

## HOLDING TIME EVALUATION

The samples were prepared and analyzed within the method-prescribed time period from the date of collection, with the exceptions and any necessary qualifications noted in Table 4.

Holding time situations requiring additional professional judgement are detailed below.

- All samples with holding time exceedances were compared with historical data for consistency. When historical data was also non-detected, associated results were qualified as non-detected estimate (UJ). When historical data was either detected or not available, associated results were rejected (R) due to disagreement.

## LABORATORY BLANK EVALUATION

The laboratory blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 5. The following criteria were taken into consideration when assessing blank contamination and applying any necessary qualifications:

- Non-detected results or results greater than five times the blank concentration (ten times for inorganics or common laboratory contaminants) were considered not affected by contamination and were not qualified.
- If results were associated with more than one blank, the greater of the two blank concentrations was used for applying qualifications.
- Results less than the reporting limit, as adjusted for dilution, were qualified as non-detect (U) at the sample reporting limit.
- Results within five times the blank concentration (ten times for inorganics or common laboratory contaminants), greater than the reporting limit, but less than the blank concentration, as adjusted for dilution, were qualified as non-detect (U) at the sample concentration.
- Results within five times the blank concentration (ten times for inorganics or common laboratory contaminants), greater than the reporting limit, and greater than the blank concentration, as adjusted for dilution, were qualified as estimates with a high bias (J+).

## FIELD BLANK EVALUATION

The trip and rinse blank sample results were non-detected for each of the target analytes, with the exceptions and any necessary qualifications noted in Table 6. Any field blank detections associated with laboratory blank contamination and qualified as non-detected (U) are not included in Table 6. The following criteria were taken into

consideration when assessing blank contamination and applying any necessary qualifications:

- Non-detected results or results greater than five times the blank concentration (ten times for inorganics or common laboratory contaminants) were considered not affected by contamination and were not qualified.
- If results were associated with more than one blank, the greater of the two blank concentrations was used for applying qualifications.
- Results less than the reporting limit were qualified as non-detect (U) at the sample reporting limit.
- Results within five times the blank concentration (ten times for inorganics or common laboratory contaminants), greater than the reporting limit, but less than the blank concentration were qualified as non-detect (U) at the sample concentration.
- Results within five times the blank concentration (ten times for inorganics or common laboratory contaminants), greater than the reporting limit, and greater than the blank concentration were qualified as estimates with a high bias (J+).
- Equipment and field blank results associated with method blank contamination were attributed to and qualified for laboratory introduced contamination. No additional qualifications were made to sample results based on the equipment and/or field blanks in these instances.

Field blank situations requiring additional professional judgement are detailed below.

- The volatile organic compound results for trip blank sample TB-051425A and the non-detect results for rinse blank sample RB-02-051425 were rejected due to holding time exceedance; therefore, they are not usable to evaluate whether contaminants were introduced to the samples during shipment, handling, and storage.

## LABORATORY CONTROL SPIKE EVALUATION

The laboratory control sample (LCS) recoveries and, if included, the laboratory control sample duplicate (LCSD) recoveries and relative percent differences (RPD) were within the laboratory's limits of acceptance, with the exceptions and any necessary qualifications noted in Table 7. Results were not qualified if the paired spiked sample recovery was acceptable, if high recoveries or RPDs were associated with non-detected results, or if the exception was not associated with reported results.

## MATRIX SPIKE EVALUATION

The matrix spike (MS) recoveries and, if included, the matrix spike duplicate (MSD) recoveries and RPDs were within the laboratory's limits of acceptance for target

analytes for spiked project samples, with the exceptions and any necessary qualifications noted in Table 8. MS/MSDs performed on non-project parent samples, if included, are not representative of the matrix for this project and were therefore not reviewed or presented. Results were not qualified if the paired spiked sample recovery was acceptable, if high recoveries or RPDs were associated with non-detected results, if the parent sample result was greater than four times that of the spike, if the spike was diluted out, or if the exception was not associated with reported results.

## SURROGATE EVALUATION

The surrogate recoveries were within the laboratory limits of acceptance. The acceptable surrogate recoveries indicate minimal matrix interference in the samples.

## FIELD DUPLICATE EVALUATION

One or more samples were submitted to the laboratory as field duplicates. RPDs or absolute differences were calculated as appropriate for detected results. When results were greater than or equal to five times the reporting limit, RPD control limits of 30 for an aqueous matrix or 50 for a non-aqueous matrix were used. When results were less than five times the reporting limit, difference limits of  $\pm$  two times the reporting limit for an aqueous matrix or  $\pm$  four times the reporting limit for a non-aqueous matrix were used. Control limits were not applicable if both results were less than the reporting limits. If one result was greater than the reporting limit and the other was not detected, the reporting limit for the non-detect result was used when calculating differences. Additionally, if the reporting limits were not the same between the parent and field duplicate samples, professional judgment was used to determine the difference control limit or if the calculation was meaningful. The RPDs and/or absolute differences were within QAPP criteria or EPA Region 1 guidance, whichever is applicable, with any exceptions and necessary qualifications noted in Table 9.

## CALIBRATION RANGE EVALUATION

All results were reported within each instrument's calibration range, with the exceptions and any necessary qualifications noted in Table 10.

## PROFESSIONAL JUDGEMENT EVALUATION

Additional qualifiers using the validator's professional judgement were not necessary.

## OVERALL ASSESSMENT

Excluding rejected results, all data can be used for decision-making purposes; however, the limitation identified by the applied qualifier should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

**Table 1**  
**Samples with Non-Preferred Results**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package  | Sample ID      | Method | Analysis Date/Time | Reason                                                                                  | Analyte     | Result | Units |
|--------------|----------------|--------|--------------------|-----------------------------------------------------------------------------------------|-------------|--------|-------|
| 580-150519-1 | MWA-56D-051425 | 314.0  | 05/20/2025 23:57   | Analysis result outside of calibration range; result within calibration range preferred | Perchlorate | 13000  | µg/L  |

Notes:  
µg/L = micrograms per liter

**Table 2**  
**Case Narrative Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Sample ID                                       | Method | Analyte                | Reason                            | ERM Qualifier |
|----------------------|-------------------------------------------------|--------|------------------------|-----------------------------------|---------------|
| 580-150469-1 Rev (1) | None for qualification, samples ND              | 8260D  | Hexachlorobutadiene    | Batch 410-650136<br>CCV high bias | --            |
| 580-150519-1 Rev (1) | RB-02-051425                                    | 8260D  | Acetone                | Batch 410-651462<br>CCV high bias | J+            |
|                      | PA-20d-051425                                   |        |                        |                                   | J+            |
|                      | MWA-58d-051425                                  |        |                        |                                   | J+            |
|                      | PA-18d-051425                                   |        |                        |                                   | J+            |
|                      | MWA-63-051425                                   |        |                        |                                   | J+            |
|                      | None for qualification, samples ND              |        | 4-Methyl-2-pentanone   | --                                |               |
|                      | TB-051425A<br>PA-31-051425<br>MWA-11i(d)-051425 |        | Chloromethane          | Batch 410-651594<br>CCV low bias  | UJ            |
|                      | None for qualification, samples ND              |        | 2-Butanone             | Batch 410-651594<br>CCV high bias | --            |
|                      |                                                 |        | n-Butylbenzene         |                                   |               |
|                      |                                                 |        | 1,2,4-Trichlorobenzene |                                   |               |
| Hexachlorobutadiene  |                                                 |        |                        |                                   |               |

Notes:

-- = not applicable; associated data not affected

CCV = continuing calibration verification

J+ = detected results are estimated with a high bias

ND = not detected

UJ = non-detected, estimated report limit

**Table 3**  
**Preservation Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Sample ID     | Method   | Sample Condition | Preservation Requirement | Analyte | ERM Qualifier |
|----------------------|---------------|----------|------------------|--------------------------|---------|---------------|
| 580-150519-1 Rev (1) | PA-32i-051425 | 8260C LL | Headspace        | No headspace             | All     | UJ            |

Notes:

UJ = non-detected, estimated report limit

**Table 4**  
**Holding Time Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Sample ID         | Method   | Extraction Holding Time | Total Time | Analysis Holding Time | Total Time                   | Analyte                      | ERM Qualifier                |
|----------------------|-------------------|----------|-------------------------|------------|-----------------------|------------------------------|------------------------------|------------------------------|
| 580-150469-1 Rev (1) | MWA-31i(d)-051325 | 8260D    | --                      | --         | 14 days               | 16 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | 16 days           |          |                         |            |                       | Detects J-<br>Non-detects UJ |                              |                              |
|                      | 16 days           |          |                         |            |                       | UJ                           |                              |                              |
|                      | 16 days           |          |                         |            |                       | UJ                           |                              |                              |
|                      | 17 days           |          |                         |            |                       | All                          | UJ                           |                              |
| 580-150519-1 Rev (1) | RB-02-051425      | 8260D    | --                      | --         | 14 days               | 19 days                      | Acetone                      | J-                           |
|                      |                   |          |                         |            |                       | All other analytes           | R                            |                              |
|                      | PA-20d-051425     |          |                         |            |                       | 19 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | MWA-58d-051425    |          |                         |            |                       | 19 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | Dup-02-051425     |          |                         |            |                       | 19 days                      | Acetone                      | R                            |
|                      |                   |          |                         |            |                       | All other analytes           | Detects J-<br>Non-detects UJ |                              |
|                      | MWA-56d-051425    |          |                         |            |                       | 19 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | PA-21d-051425     |          |                         |            |                       | 19 days                      |                              | Detects J-<br>Non-detects UJ |
|                      | PA-19d-051425     |          |                         |            |                       | 19 days                      |                              | Detects J-<br>Non-detects UJ |
|                      | PA-18d-051425     |          |                         |            |                       | 19 days                      |                              | Detects J-<br>Non-detects UJ |
|                      | MWA-63-051425     | 19 days  |                         |            |                       | Detects J-<br>Non-detects UJ |                              |                              |
|                      | PA-30d-051525     | 18 days  |                         |            |                       | Detects J-<br>Non-detects UJ |                              |                              |
|                      | PA-31-051425      | 8260C LL |                         |            |                       | 19 days                      | Chloromethane                | R                            |
|                      |                   |          |                         |            |                       | All other analytes           | Detects J-<br>Non-detects UJ |                              |
|                      | MWA-11i(d)-051425 |          |                         |            |                       | 19 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | PA-10i-051425     |          |                         |            |                       | 20 days                      | All                          | Detects J-<br>Non-detects UJ |
|                      | PA-32i-051425     |          |                         |            |                       | 19 days                      | All                          | UJ                           |
| TB-051425A           | 19 days           |          | All                     | R          |                       |                              |                              |                              |

**Table 4**  
**Holding Time Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package | Sample ID | Method | Extraction Holding Time | Total Time | Analysis Holding Time | Total Time | Analyte | ERM Qualifier |
|-------------|-----------|--------|-------------------------|------------|-----------------------|------------|---------|---------------|
|-------------|-----------|--------|-------------------------|------------|-----------------------|------------|---------|---------------|

Notes:

-- = not applicable; associated data not affected

J- = detected results are estimated with a low bias

R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria.

UJ = non-detected, estimated report limit

**Table 5**  
**Laboratory Blank Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Blank ID        | Analyte             | Reported Blank Conc. | Blank RL | Associated Sample                  | Assoc. Sample Result | Assoc. Sample RL | Units | ERM Qualifier |
|----------------------|-----------------|---------------------|----------------------|----------|------------------------------------|----------------------|------------------|-------|---------------|
| 580-150519-1 Rev (1) | MB 410-651883/6 | Hexachlorobutadiene | 0.107                | 0.50     | None for qualification, samples ND | --                   | --               | µg/L  | --            |

Notes:

-- = not applicable; associated data not affected

Conc. = concentration

MB = method blank

µg/L = micrograms per liter

ND = not detected

RL = reporting limit

**Table 6**  
**Field Blank Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package  | Blank ID     | Analyte | Reported Blank Conc. | Blank RL | Associated Sample | Assoc. Sample Result | Assoc. Sample RL | Units | ERM Qualifier |
|--------------|--------------|---------|----------------------|----------|-------------------|----------------------|------------------|-------|---------------|
| 580-150469-1 | RB-02-051425 | Acetone | 2.0                  | 20       | MWA-31I(D)-051325 | 1.0                  | 20               | µg/L  | 20 U          |
|              |              |         |                      |          | PA-23D-051325     | 1.0                  |                  |       | 20 U          |

Notes:

Conc. = concentration

RB = rinse blank

RL = reporting limit

U = non-detected

**Table 7**  
**Laboratory Control Spike Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Spike Sample ID                       | Associated Sample                  | Analyte             | Recovery (%) | Limit (%) | RPD  | RPD Limit | Result | Units | ERM Qualifier |
|----------------------|---------------------------------------|------------------------------------|---------------------|--------------|-----------|------|-----------|--------|-------|---------------|
| 580-150519-1 Rev (1) | LCS 410-651462/4<br>LCSD 410-651462/5 | None for qualification, samples ND | Tetrachloroethene   | 121/124      | 80-120    | Pass | 30        | --     | --    | --            |
|                      |                                       |                                    | Isopropylbenzene    | 129/129      | 80-120    | Pass | 30        |        |       |               |
|                      |                                       |                                    | Hexachlorobutadiene | 131/130      | 63-120    | Pass | 30        |        |       |               |

Notes:

-- = not applicable; associated data not affected

LCS = laboratory control sample

LCSD = laboratory control sample duplicate

µg/L = micrograms per liter

ND = not detected

RPD = relative percent difference

**Table 8**  
**Matrix Spike Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Spike Sample ID          | Associated Sample                                                     | Analyte                  | Recovery (%) | Limit (%) | RPD  | RPD Limit | Result | Units | ERM Qualifier |
|----------------------|--------------------------|-----------------------------------------------------------------------|--------------------------|--------------|-----------|------|-----------|--------|-------|---------------|
| 580-150469-1 Rev (1) | MWA-41-051325<br>MS/MSD  | None for qualification,<br>one recovery passes<br>or parent sample ND | Dichlorodifluoromethane  | 125/Pass     | 43-123    | Pass | 30        | --     | µg/L  | --            |
|                      |                          |                                                                       | Chloroethane             | 121/Pass     | 63-120    |      |           |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloroethene       | 144/140      | 80-131    |      |           |        |       |               |
|                      |                          |                                                                       | Methylene Chloride       | 129/126      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | trans-1,2-Dichloroethene | 135/133      | 80-122    |      |           |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloroethane       | 131/129      | 74-120    |      |           |        |       |               |
|                      |                          |                                                                       | Chloroform               | 125/124      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | 1,1,1-Trichloroethane    | 129/128      | 78-126    |      |           |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloropropene      | 127/126      | 74-120    |      |           |        |       |               |
|                      |                          |                                                                       | Benzene                  | 124/121      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | Trichloroethene          | 124/123      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | 1,2-Dichloropropane      | 126/124      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | Isopropylbenzene         | 127/125      | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | sec-Butylbenzene         | Pass/121     | 80-120    |      |           |        |       |               |
|                      |                          |                                                                       | n-Butylbenzene           | 129/130      | 74-123    |      |           |        |       |               |
|                      |                          |                                                                       | Hexachlorobutadiene      | 135/136      | 72-132    |      |           |        |       |               |
|                      |                          |                                                                       | Chloride                 | 111/Pass     | 90-110    | Pass | 15        | --     | mg/L  | --            |
| 580-150519-1 Rev (1) | MWA-56d-051425<br>MS/MSD | None for qualification,<br>parent sample ND                           | Dichlorodifluoromethane  | 139/129      | 27-131    | Pass | 30        | --     | µg/L  | --            |
|                      |                          |                                                                       | Trichlorofluoromethane   | 130/122      | 47-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloroethene       | 136/132      | 74-121    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | trans-1,2-Dichloroethene | 127/125      | 74-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloroethane       | 127/128      | 74-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | 1,1,1-Trichloroethane    | 130/127      | 68-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Carbon tetrachloride     | 137/134      | 63-128    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | 1,1-Dichloropropene      | 126/125      | 76-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | 1,2-Dichloroethane       | 126/123      | 69-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Trichloroethene          | 125/122      | 76-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Tetrachloroethene        | 131/129      | 68-125    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Chlorodibromomethane     | 121/Pass     | 74-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Chlorobenzene            | 123/123      | 80-120    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Isopropylbenzene         | 133/132      | 75-121    | Pass | 30        |        |       |               |
|                      |                          |                                                                       | Hexachlorobutadiene      | 131/128      | 64-127    | Pass | 30        |        |       |               |
|                      | MWA-56d-051425           | Dichlorobromomethane                                                  | 122/122                  | 73-120       | Pass      | 30   | 0.48      |        |       | J+            |

**Table 8**  
**Matrix Spike Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Spike Sample ID          | Associated Sample                                                    | Analyte  | Recovery (%) | Limit (%) | RPD  | RPD Limit | Result | Units | ERM Qualifier |
|----------------------|--------------------------|----------------------------------------------------------------------|----------|--------------|-----------|------|-----------|--------|-------|---------------|
| 580-150519-1 Rev (1) | MWA-56d-051425<br>MS/MSD | None for qualification,<br>parent sample > 4x<br>spike concentration | Chloride | -65/-415     | 90-110    | Pass | 15        | --     | mg/L  | --            |

Notes:

-- = not applicable; associated data not affected

4X = The unspiked sample result was greater than four times the spike concentration.

J+ = detected results are estimated with a high bias

MS = matrix spike

MSD = matrix spike duplicate

µg/L = micrograms per liter

mg/L = milligrams per liter

ND = not detected

RPD = relative percent difference

**Table 9**  
**Field Duplicate Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Primary/Duplicate Sample ID      | Analyte              | Concentration |           | Report Limit |           | Units | AbD | RPD | Limit | ERM Qualifier |
|----------------------|----------------------------------|----------------------|---------------|-----------|--------------|-----------|-------|-----|-----|-------|---------------|
|                      |                                  |                      | Sample        | Duplicate | Sample       | Duplicate |       |     |     |       |               |
| 580-150469-1 Rev (1) | PA-17iR-051325/<br>Dup-01-051325 | Chloride             | 57            | 58        | 1.5          | 1.5       | mg/L  | --  | 1.7 | 30    | --            |
| 580-150519-1 Rev (1) | MWA-58d-051425/<br>Dup-02-051425 | Acetone              | 1.3           | ND        | 20           | 20        | µg/L  | --  | --  | NA    | --            |
|                      |                                  | Methylene Chloride   | 1.7           | 1.7       | 1.0          | 1.0       |       | 0.0 | --  | 2.0   | --            |
|                      |                                  | Chloroform           | 230           | 240       | 1.0          | 1.0       |       | --  | 4.3 | 30    | --            |
|                      |                                  | Benzene              | 0.31          | 0.31      | 1.0          | 1.0       |       | --  | --  | NA    | --            |
|                      |                                  | Trichloroethene      | 0.33          | ND        | 1.0          | 1.0       |       | --  | --  | NA    | --            |
|                      |                                  | Dibromomethane       | 0.30          | ND        | 1.0          | 1.0       |       | --  | --  | NA    | --            |
|                      |                                  | Dichlorobromomethane | 1.3           | 1.3       | 1.0          | 1.0       |       | 0.0 | --  | 2.0   | --            |
|                      |                                  | Chlorodibromomethane | 0.51          | 0.51      | 1.0          | 1.0       |       | --  | --  | NA    | --            |
|                      |                                  | Perchlorate          | 48000         | 47000     | 4000         | 4000      |       | --  | 2.1 | 30    | --            |
|                      |                                  | Chloride             | 18000         | 18000     | 750          | 750       | mg/L  | --  | 0   | 30    | --            |

Notes:

-- = not applicable; associated data not affected

AbD = absolute Difference

µg/L = micrograms per liter

NA = not applicable

ND = not detected

RPD = relative percent difference

**Table 10**  
**Calibration Range Evaluation**  
**Second Quarter 2025 Groundwater**  
**Arkema**  
**Portland, Oregon**

| Lab Package          | Sample ID          | Analyte     | Reported Conc. | Units | ERM Qualifier                     |
|----------------------|--------------------|-------------|----------------|-------|-----------------------------------|
| 580-150519-1 Rev (1) | MWA-56d-051425 MS  | Perchlorate | 13000          | µg/L  | None for qualification, QC sample |
|                      | MWA-56d-051425 MSD | Perchlorate | 13000          | µg/L  |                                   |

Notes:

Conc. = concentration

J = estimated detected result

µg/L = micrograms per liter



## APPENDIX D      PRIOR GROUNDWATER MONITORING PROGRAM DATA TABLES AND GRAPHS

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Aquifer | Well ID | Cluster               | Sample ID     | Date       | Chloride  | Chlorobenzene | Perchlorate |
|---------|---------|-----------------------|---------------|------------|-----------|---------------|-------------|
|         |         |                       |               |            | ug/L      | ug/L          | ug/L        |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-102319 | 10/23/2019 | 5,900     | < 0.44 U      | < 0.95 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-021220 | 02/12/2020 | 10,900    | 0.16 j        | < 0.95 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-051820 | 05/18/2020 | 14,000    | < 0.025 U     | < 0.95 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-081820 | 08/18/2020 | 16,000    | < 0.025 U     | < 0.95 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-102720 | 10/27/2020 | 5,800     | < 0.025 U     | < 0.95 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-031821 | 03/18/2021 | 18,000    | < 0.025 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-092221 | 09/22/2021 | 10,000    | < 0.025 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-121421 | 12/14/2021 | 5,300     | < 0.025       | < 2.0       |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-031422 | 03/14/2022 | 14,000 J- | < 0.060 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-060622 | 06/06/2022 | 9,600     | < 0.060 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-110722 | 11/07/2022 | 21,000    | < 0.060 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-030623 | 03/06/2023 | 7,800     | < 0.060 U     | < 2.0 UJ    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-061323 | 06/13/2023 | 7,500     | < 0.060       | < 2.0       |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-082123 | 08/21/2023 | 7,100     | < 0.060 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-121023 | 12/10/2023 | 5,600     | < 0.20 U      | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-022624 | 02/26/2024 | 8,000     | < 0.060 U     | < 2.0 U     |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-061024 | 06/10/2024 | 7,600     | 0.060 j       | 2.6 j       |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-091024 | 09/10/2024 | 18,000    | < 0.060 U     | < 0.91 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-121124 | 12/11/2024 | 4,900 J+  | < 0.060 U     | < 0.91 U    |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-021825 | 02/18/2025 | 5,400     | < 0.060       | < 0.91      |
| Shallow | MWA-41  | GCC6 & Proximal Wells | MWA-41-051325 | 05/13/2025 | 8,600     | < 0.070       | < 0.91      |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-110619 | 11/06/2019 | 83,000    | < 44 U        | < 0.95 U    |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-021720 | 02/17/2020 | 8,400     | < 0.44 U      | < 0.95 U    |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-052620 | 05/26/2020 | 13,000    | < 0.44 U      | < 0.95 U    |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-082420 | 08/24/2020 | 29,000    | < 0.44 U      | < 0.95 U    |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-110320 | 11/03/2020 | 71,000    | < 0.44 U      | < 4.8 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-032921 | 03/29/2021 | 7,200 J   | < 0.44 U      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-092321 | 09/23/2021 | 58,000 J  | < 0.44 UJ     | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-121521 | 12/15/2021 | 14,000    | < 0.44        | < 2.0       |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-031522 | 03/15/2022 | 5,500 J-  | < 4.4 UJ      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-060822 | 06/08/2022 | 4,900     | < 0.30 U      | 13          |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-110922 | 11/09/2022 | 33,000    | < 0.44 U      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-030923 | 03/09/2023 | 5,500     | 5.6 j         | < 10 UJ     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-061523 | 06/15/2023 | 5,700 j   | < 0.44        | < 2.0       |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-082323 | 08/23/2023 | 17,000    | < 0.44 U      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-121223 | 12/12/2023 | 15,000    | < 0.44 U      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-022724 | 02/27/2024 | 4,500     | < 4.4 U       | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-061324 | 06/13/2024 | 6,600     | < 0.44 U      | < 2.0 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-091024 | 09/10/2024 | 23,000    | < 0.44 U      | < 0.91 U    |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-121024 | 12/10/2024 | 15,000 J+ | < 0.44 U      | < 4.5 U     |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-022125 | 02/21/2025 | 5,800     | < 4.4         | < 1.8       |
| Shallow | MWA-63  | GCC1 & Proximal Wells | MWA-63-051425 | 05/14/2025 | 4,700     | < 0.30 UJ     | < 4.5       |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-102319 | 10/23/2019 | 14,700    | < 0.44 U      | 190         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-021120 | 02/11/2020 | 34,800    | 0.24          | < 48 U      |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-051920 | 05/19/2020 | 10,000    | < 0.025 U     | 71 j        |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-081820 | 08/18/2020 | 15,000    | 0.030 j       | 530         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-102720 | 10/27/2020 | 14,000    | < 0.20 U      | 77          |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-031821 | 03/18/2021 | 11,000 J  | < 0.025 U     | 290         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-092121 | 09/21/2021 | 14,000    | < 0.025 U     | 56          |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-121421 | 12/14/2021 | 13,000    | < 0.025       | 150         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-031422 | 03/14/2022 | 11,000 J- | < 0.060 U     | 52          |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-060622 | 06/06/2022 | 11,000    | < 0.060 U     | 340         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-110722 | 11/07/2022 | 9,000     | < 0.060 U     | 120         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-030623 | 03/06/2023 | 11,000    | < 0.060 U     | 210 J-      |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-061323 | 06/13/2023 | 9,900     | < 0.060       | 150         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-082123 | 08/21/2023 | 9,700     | < 0.060 U     | 210         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-121023 | 12/10/2023 | 14,000    | < 0.20 U      | < 10 U      |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-022524 | 02/25/2024 | 7,900     | < 0.060 U     | 20          |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-061024 | 06/10/2024 | 11,000    | 0.11 j        | 270         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-090924 | 09/09/2024 | 11,000    | < 0.060 U     | 220         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-121124 | 12/11/2024 | 9,200 J+  | < 0.060 U     | 56          |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-021825 | 02/18/2025 | 9,100     | < 0.060       | 420         |
| Shallow | MWA-82  | GCC6 & Proximal Wells | MWA-82-051325 | 05/13/2025 | 9,400     | < 0.070       | 93          |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-102519  | 10/25/2019 | 9,700     | < 0.44 U      | < 4.8 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-021420  | 02/14/2020 | 9,700     | 0.29          | < 48 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-052120  | 05/21/2020 | 8,300     | < 0.025 U     | < 48 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-081820  | 08/18/2020 | 10,000    | < 0.025 U     | < 95 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-102820  | 10/28/2020 | < 9,000 U | < 0.025 U     | < 19 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-032221  | 03/22/2021 | 9,600 J   | < 0.025 U     | < 20 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-092221  | 09/22/2021 | 7,800     | < 0.025 U     | < 20 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-121321  | 12/13/2021 | 7,300     | < 0.025       | < 20        |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-031622  | 03/16/2022 | 7,300     | < 0.060 U     | < 20 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-060822  | 06/08/2022 | 5,500     | < 0.070 U     | < 4.0 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-110822  | 11/08/2022 | 6,200     | < 0.060 U     | < 4.0 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-030723  | 03/07/2023 | 6,500     | < 0.060 U     | < 4.0 UJ    |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-061423  | 06/14/2023 | 4,500     | < 0.060       | < 2.0       |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-082223  | 08/22/2023 | 4,500     | < 0.060 U     | < 2.0 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-121123  | 12/11/2023 | 4,600     | < 0.060 U     | < 4.0 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-022624  | 02/26/2024 | 4,200     | < 0.20 U      | < 2.0 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-061224  | 06/12/2024 | 3,700     | < 0.060 U     | < 10 U      |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-090924  | 09/09/2024 | 3,800     | < 0.060 U     | < 9.1 U     |

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
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| Aquifer | Well ID | Cluster               | Sample ID    | Date       | Chloride   | Chlorobenzene | Perchlorate |
|---------|---------|-----------------------|--------------|------------|------------|---------------|-------------|
|         |         |                       |              |            | ug/L       | ug/L          | ug/L        |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-120924 | 12/09/2024 | 4,300 J+   | < 0.060 U     | < 9.1 U     |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-022025 | 02/20/2025 | 3,900      | < 0.060       | < 18        |
| Shallow | PA-03   | GCC1 & Proximal Wells | PA-03-051325 | 05/13/2025 | 9,300      | < 0.070       | < 36        |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-102819 | 10/28/2019 | 14,300     | < 2.0 U       | < 4.8 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-021720 | 02/17/2020 | 13,700     | 0.14 j        | < 48 U      |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-052220 | 05/22/2020 | 12,000     | < 0.025 U     | < 4.8 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-081920 | 08/19/2020 | 14,000 J+  | < 0.025 U     | < 19 U      |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-102920 | 10/29/2020 | 12,000     | < 0.025 U     | < 4.8 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-032421 | 03/24/2021 | 7,900 J    | < 0.025 U     | < 20 U      |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-092221 | 09/22/2021 | 11,000     | < 0.025 U     | < 10 U      |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-121321 | 12/13/2021 | 7,000      | < 0.025       | < 20        |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-031722 | 03/17/2022 | 6,500      | < 0.060 U     | < 2.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-060822 | 06/08/2022 | 7,900      | < 0.35 U      | < 2.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-110922 | 11/09/2022 | 4,600      | < 0.060 U     | < 4.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-030823 | 03/08/2023 | 5,400      | < 0.060 U     | < 10 UJ     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-061523 | 06/15/2023 | 6,900 j    | < 0.060       | < 4.0       |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-082223 | 08/22/2023 | 5,900      | < 0.060 U     | < 10 U      |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-121223 | 12/12/2023 | 6,100      | < 0.060 U     | < 2.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-022724 | 02/27/2024 | 5,300      | < 0.060 U     | < 4.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-061224 | 06/12/2024 | 5,700      | < 0.060 U     | < 2.0 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-091024 | 09/10/2024 | 4,900      | < 0.060 U     | < 4.5 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-121024 | 12/10/2024 | 5,200 J+   | < 0.060 U     | < 9.1 U     |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-022125 | 02/21/2025 | 4,000      | < 0.060       | < 9.1       |
| Shallow | PA-04   | GCC1 & Proximal Wells | PA-04-051325 | 05/13/2025 | 60,000     | < 0.35        | < 9.1       |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-102219 | 10/22/2019 | 201,000    | < 0.44 U      | < 19 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-021320 | 02/13/2020 | 197,000    | 0.53          | < 48 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-051920 | 05/19/2020 | 130,000    | 0.11 j        | < 48 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-081820 | 08/18/2020 | 100,000    | < 0.025 U     | < 48 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-102720 | 10/27/2020 | 130,000    | 0.092 j       | < 19 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-031821 | 03/18/2021 | 110,000    | < 0.025 U     | < 20 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-092121 | 09/21/2021 | 200,000    | < 0.25 U      | < 20 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-121321 | 12/13/2021 | 130,000    | 0.084         | < 20        |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-031422 | 03/14/2022 | 250,000 J- | < 0.060 U     | < 20 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-060622 | 06/06/2022 | 330,000    | < 0.60 U      | < 20 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-110722 | 11/07/2022 | 770,000    | < 0.060 U     | < 10 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-030723 | 03/07/2023 | 380,000    | 0.24          | < 10 UJ     |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-061323 | 06/13/2023 | 110,000    | < 0.060       | 11          |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-082123 | 08/21/2023 | 53,000     | < 0.060 U     | 17          |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-121123 | 12/11/2023 | 29,000     | < 0.060 U     | < 4.0 U     |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-022624 | 02/26/2024 | 140,000    | < 0.060 U     | < 10 U      |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-061024 | 06/10/2024 | 190,000    | 0.10 j        | 19 j        |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-090924 | 09/09/2024 | 280,000    | < 0.060 U     | < 9.1 U     |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-120924 | 12/09/2024 | 230,000    | < 0.060 U     | 33          |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-022025 | 02/20/2025 | 460,000    | < 0.060       | 28          |
| Shallow | PA-08   | GCC6 & Proximal Wells | PA-08-051225 | 05/12/2025 | 260,000    | < 0.70        | < 36        |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-110119 | 11/01/2019 | 23,600     | < 0.44 U      | < 48 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-021220 | 02/12/2020 | 199,000    | 0.16 j        | < 0.95 U    |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-051820 | 05/18/2020 | 14,000     | < 0.025 U     | < 19 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-081820 | 08/18/2020 | 160,000 J+ | < 0.025 U     | < 19 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-102820 | 10/28/2020 | 14,000 J+  | < 0.20 U      | 40          |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-031621 | 03/16/2021 | 19,000     | < 0.025 U     | 36          |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-092121 | 09/21/2021 | 61,000     | < 0.25 U      | < 20 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-121321 | 12/13/2021 | 13,000     | < 0.25        | < 20        |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-031522 | 03/15/2022 | 24,000 J-  | < 0.060 U     | 20          |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-060722 | 06/07/2022 | 19,000     | < 0.060 U     | 120         |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-110822 | 11/08/2022 | 68,000     | < 0.060 U     | < 10 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-030723 | 03/07/2023 | 120,000 j  | 0.39          | < 4.0 UJ    |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-061323 | 06/13/2023 | 110,000    | < 0.060       | 6.2         |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-082123 | 08/21/2023 | 5,700      | < 0.060 U     | < 2.0 U     |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-121123 | 12/11/2023 | 5,600      | < 0.060 U     | < 2.0 U     |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-022624 | 02/26/2024 | 160,000    | < 0.060 U     | < 20 U      |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-061024 | 06/10/2024 | 130,000    | < 0.060 U     | 11 j        |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-090924 | 09/09/2024 | 15,000     | < 0.060 U     | 84          |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-121024 | 12/10/2024 | 6,600 J+   | < 0.060 U     | < 4.5 U     |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-022025 | 02/20/2025 | 180,000    | < 0.060       | < 9.1       |
| Shallow | PA-09   | GCC6 & Proximal Wells | PA-09-051225 | 05/12/2025 | 69,000     | < 0.070       | < 4.5       |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-103019 | 10/30/2019 | 9,300      | < 0.44 U      | < 9.5 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-021820 | 02/18/2020 | 10,500     | 0.15 j        | < 48 U      |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-052720 | 05/27/2020 | 9,500      | < 0.025 U     | < 9.5 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-082420 | 08/24/2020 | 8,800 J+   | < 0.025 U     | < 9.5 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-110220 | 11/02/2020 | 8,200 j    | < 0.025 U     | < 4.8 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-032921 | 03/29/2021 | 5,500 J    | < 0.025 U     | < 20 U      |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-092321 | 09/23/2021 | 8,700      | < 0.025 U     | < 10 U      |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-121521 | 12/15/2021 | 7,000      | < 0.025       | < 20        |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-031522 | 03/15/2022 | 4,500 J-   | < 0.060 U     | < 10 U      |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-060922 | 06/09/2022 | 4,300      | < 0.070 U     | < 100 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-110822 | 11/08/2022 | 5,900      | < 0.060 U     | < 4.0 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-030723 | 03/07/2023 | 5,800 J+   | < 0.060 U     | < 2.0 UJ    |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-061623 | 06/16/2023 | 2,500      | < 0.060       | < 40        |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-082423 | 08/24/2023 | 4,600      | < 0.060 U     | < 4.0 U     |
| Shallow | PA-31   | GCC1 & Proximal Wells | PA-31-121223 | 12/12/2023 | 6,400      | < 0.060 U     | < 2.0 U     |

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
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| Aquifer      | Well ID | Cluster               | Sample ID      | Date       | Chloride   | Chlorobenzene | Perchlorate |
|--------------|---------|-----------------------|----------------|------------|------------|---------------|-------------|
|              |         |                       |                |            | ug/L       | ug/L          | ug/L        |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-022724   | 02/27/2024 | 3,500      | < 0.060 U     | < 2.0 U     |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-061324   | 06/13/2024 | 3,800      | < 0.060 U     | < 10 U      |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-091124   | 09/11/2024 | 8,300      | < 0.060 U     | < 4.5 U     |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-121024   | 12/10/2024 | 4,200 J+   | < 0.060 U     | < 4.5 U     |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-021925   | 02/19/2025 | 3,400 J+   | < 0.060       | < 9.1       |
| Shallow      | PA-31   | GCC1 & Proximal Wells | PA-31-051425   | 05/14/2025 | 3,400      | < 0.070 UJ    | < 9.1       |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-102319 | 10/23/2019 | 49,800     | < 0.44 U      | < 0.95 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-021220 | 02/12/2020 | 37,300     | 0.26          | < 0.95 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-051820 | 05/18/2020 | 95,000     | < 0.025 U     | < 0.95 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-081820 | 08/18/2020 | 190,000    | < 0.025 U     | < 0.95 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-102720 | 10/27/2020 | 66,000     | < 0.025 U     | < 0.95 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-031821 | 03/18/2021 | 42,000     | < 0.025 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-092221 | 09/22/2021 | 130,000    | < 0.025 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-121421 | 12/14/2021 | 58,000     | < 0.025       | < 4.0       |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-031422 | 03/14/2022 | 14,000 J-  | < 0.060 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-060622 | 06/06/2022 | 34,000     | < 0.060 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-110722 | 11/07/2022 | 610,000    | < 0.060 U     | < 10 U      |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-030623 | 03/06/2023 | 95,000     | < 0.060 U     | < 2.0 UJ    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-061323 | 06/13/2023 | 27,000     | < 0.060       | < 2.0       |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-082123 | 08/21/2023 | 19,000     | < 0.060 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-121023 | 12/10/2023 | 39,000     | < 0.20 U      | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-022624 | 02/26/2024 | 23,000     | < 0.060 U     | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-061024 | 06/10/2024 | 26,000     | 0.085 j       | < 2.0 U     |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-091024 | 09/10/2024 | 8,400      | < 0.060 U     | < 0.91 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-121124 | 12/11/2024 | 33,000 J+  | < 0.060 U     | < 0.91 U    |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-021825 | 02/18/2025 | 12,000     | < 0.060       | < 0.91      |
| Intermediate | MWA-81i | GCC6 & Proximal Wells | MWA-81i-051325 | 05/13/2025 | 28,000     | < 0.070       | < 0.91      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-102519  | 10/25/2019 | 119,000    | < 0.44 U      | < 4.8 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-021720  | 02/17/2020 | 98,600     | 0.52          | < 48 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-052620  | 05/26/2020 | 82,000     | 0.51          | < 48 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-081920  | 08/19/2020 | 67,000     | 0.52          | < 95 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-102920  | 10/29/2020 | 82,000     | 0.70          | < 4.8 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-032421  | 03/24/2021 | 1,300,000  | < 0.44 U      | < 20 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-092221  | 09/22/2021 | 76,000     | 0.67          | < 20 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-121321  | 12/13/2021 | 72,000     | 0.65          | < 20        |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-031722  | 03/17/2022 | 90,000     | < 0.060 U     | < 20 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-060822  | 06/08/2022 | 84,000     | 0.37 j        | < 2.0 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-110922  | 11/09/2022 | 45,000     | 1.5           | < 10 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-030823  | 03/08/2023 | 41,000     | 5.7           | < 10 UJ     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-061623  | 06/16/2023 | 35,000     | 1.3 J+        | < 20        |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-082223  | 08/22/2023 | 53,000     | 0.67          | < 4.0 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-121223  | 12/12/2023 | 58,000     | 0.90          | < 4.0 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-022724  | 02/27/2024 | 55,000     | 0.53          | < 10 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-061224  | 06/12/2024 | 44,000     | 0.71          | < 10 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-091024  | 09/10/2024 | 30,000     | < 0.060 U     | < 9.1 U     |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-121024  | 12/10/2024 | 25,000 J+  | 0.64          | < 91 U      |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-022125  | 02/21/2025 | 27,000     | 1.0           | < 36        |
| Intermediate | PA-10i  | GCC1 & Proximal Wells | PA-10i-051425  | 05/14/2025 | 36,000     | 0.82 J-       | < 36        |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-110519  | 11/05/2019 | 115,000    | < 0.44 U      | < 48 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-021820  | 02/18/2020 | 249,000    | < 0.025 U     | < 48 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-051820  | 05/18/2020 | 270,000    | < 0.025 U     | < 48 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-081720  | 08/17/2020 | 250,000    | < 0.025 U     | < 48 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-102620  | 10/26/2020 | 230,000    | < 2.5 U       | < 4.8 U     |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-031721  | 03/17/2021 | 260,000    | < 0.025 U     | < 20 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-092121  | 09/21/2021 | 360,000    | < 0.25 U      | < 20 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-121421  | 12/14/2021 | 340,000    | < 0.025       | < 20        |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-031422  | 03/14/2022 | 250,000 J- | < 0.060 U     | < 20 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-060622  | 06/06/2022 | 300,000    | < 0.60 U      | < 20 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-110722  | 11/07/2022 | 850,000    | 0.29          | < 10 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-030823  | 03/08/2023 | 290,000    | < 0.060 U     | < 10 UJ     |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-061323  | 06/13/2023 | 290,000    | 0.073 j       | < 4.0       |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-082123  | 08/21/2023 | 41,000     | < 0.060 U     | < 10 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-121123  | 12/11/2023 | 4,400      | < 0.20 U      | < 10 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-022624  | 02/26/2024 | 20,000     | < 0.060 U     | < 10 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-061224  | 06/12/2024 | 86,000 J-  | < 0.060 U     | < 10 U      |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-090924  | 09/09/2024 | 59,000     | < 0.060 U     | < 9.1 U     |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-121124  | 12/11/2024 | 64,000     | < 0.060 U     | < 9.1 U     |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-021825  | 02/18/2025 | 44,000     | < 0.060       | < 18        |
| Intermediate | PA-15i  | GCC6 & Proximal Wells | PA-15i-051225  | 05/12/2025 | 34,000     | < 0.70        | < 36        |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-110419  | 11/04/2019 | 319,000    | < 0.44 U      | < 48 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-021220  | 02/12/2020 | 186,000    | 0.22          | < 48 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-051920  | 05/19/2020 | 150,000    | 0.073 j       | < 48 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-081920  | 08/19/2020 | 95,000 J+  | 0.13 j        | < 48 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-102720  | 10/27/2020 | 69,000     | 0.31          | < 4.8 U     |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-031721  | 03/17/2021 | 140,000    | < 0.025 U     | < 20 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-092121  | 09/21/2021 | 50,000     | < 0.25 U      | < 10 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-121421  | 12/14/2021 | 95,000     | 0.21          | < 20        |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-031522  | 03/15/2022 | 110,000 J- | < 0.060 U     | < 10 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-060722  | 06/07/2022 | 110,000    | < 0.30 U      | < 20 U      |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-110822  | 11/08/2022 | 270,000    | < 0.060 U     | < 4.0 U     |
| Intermediate | PA-16i  | GCC6 & Proximal Wells | PA-16i-030823  | 03/08/2023 | 530,000    | < 0.060 U     | < 20 UJ     |

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
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| Aquifer      | Well ID    | Cluster                      | Sample ID         | Date       | Chloride   | Chlorobenzene | Perchlorate |
|--------------|------------|------------------------------|-------------------|------------|------------|---------------|-------------|
|              |            |                              |                   |            | ug/L       | ug/L          | ug/L        |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-061423     | 06/14/2023 | 120,000 J- | < 0.060       | < 4.0       |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-082223     | 08/22/2023 | 35,000     | < 0.060 U     | < 4.0 U     |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-121123     | 12/11/2023 | 12,000     | < 0.20 U      | < 4.0 U     |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-022724     | 02/27/2024 | 12,000     | < 0.060 U     | < 20 U      |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-061024     | 06/10/2024 | 17,000     | < 0.060 U     | < 10 U      |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-121024     | 12/10/2024 | 15,000 J+  | 0.15 j        | < 9.1 U     |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-022125     | 02/21/2025 | 32,000     | < 0.060       | < 36        |
| Intermediate | PA-16i     | GCC6 & Proximal Wells        | PA-16i-051225     | 05/12/2025 | 11,000     | < 0.35        | < 9.1       |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-102819    | 10/28/2019 | 73,600     | 0.57 j        | < 48 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-021920    | 02/19/2020 | 65,400     | 24            | < 190 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-052120    | 05/21/2020 | 60,000     | 0.16 j        | < 48 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-082420    | 08/24/2020 | 62,000     | < 0.025 U     | < 95 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-102820    | 10/28/2020 | 50,000     | < 0.20 U      | < 4.8 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-032321    | 03/23/2021 | 43,000     | 0.15 J        | < 20 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-092221    | 09/22/2021 | 35,000     | < 0.025 U     | < 20 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-121321    | 12/13/2021 | 30,000     | < 0.025       | < 20        |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-031622    | 03/16/2022 | 23,000     | 0.072 j       | < 20 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-060822    | 06/08/2022 | 26,000     | < 0.70 U      | < 10 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-110822    | 11/08/2022 | 13,000     | < 0.60 U      | < 10 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-030823    | 03/08/2023 | 25,000     | < 0.060 U     | < 10 UJ     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-061423    | 06/14/2023 | 15,000     | 0.073 j       | < 4.0       |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-082223    | 08/22/2023 | 8,800 J    | < 0.060 U     | < 2.0 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-121123    | 12/11/2023 | 20,000     | < 0.20 U      | < 4.0 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-022624    | 02/26/2024 | 32,000     | < 0.060 U     | < 2.0 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-061224    | 06/12/2024 | 35,000     | 0.16 j        | < 10 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-090924    | 09/09/2024 | 43,000     | < 0.060 U     | < 9.1 U     |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-120924    | 12/09/2024 | 49,000     | 0.12 j        | < 91 U      |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-022125    | 02/21/2025 | 58,000     | < 0.44        | < 91        |
| Intermediate | PA-17iR    | GCC1 & Proximal Wells        | PA-17iR-051325    | 05/13/2025 | 57,000     | < 0.70        | < 91        |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-103019     | 10/30/2019 | 161,000    | < 0.44 U      | < 48 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-021820     | 02/18/2020 | 170,000    | 0.50 J+       | < 190 U     |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-052220     | 05/22/2020 | 160,000    | 0.28          | < 48 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-082120     | 08/21/2020 | 150,000 J+ | 0.30          | < 95 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-110220     | 11/02/2020 | 170,000    | < 0.025 U     | < 48 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-040121     | 04/01/2021 | 130,000    | 0.43          | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-092321     | 09/23/2021 | 100,000    | < 0.025 U     | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-121521     | 12/15/2021 | 93,000     | 0.29          | < 20        |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-031522     | 03/15/2022 | 89,000 J-  | 0.28 J+       | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-060922     | 06/09/2022 | 87,000     | < 0.70 U      | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-110822     | 11/08/2022 | 75,000 J-  | 0.28          | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-030723     | 03/07/2023 | 83,000 j   | < 0.060 U     | < 20 UJ     |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-061623     | 06/16/2023 | 31,000     | < 0.29 U      | < 40        |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-082423     | 08/24/2023 | 71,000     | 0.13 j        | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-121323     | 12/13/2023 | 32,000     | 0.15 j        | < 4.0 U     |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-022824     | 02/28/2024 | 7,600,000  | 0.29          | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-061324     | 06/13/2024 | 85,000     | 0.36          | < 20 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-091124     | 09/11/2024 | 88,000     | 0.21          | < 18 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-121024     | 12/10/2024 | 79,000     | 0.29          | < 91 U      |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-022025     | 02/20/2025 | 44,000     | < 0.060       | < 91        |
| Intermediate | PA-32i     | GCC1 & Proximal Wells        | PA-32i-051425     | 05/14/2025 | 47,000     | < 0.35 UJ     | < 91        |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-102919     | 10/29/2019 | 243,000    | < 0.44 U      | < 4.8 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-021220     | 02/12/2020 | 99,200     | 0.18 j        | < 48 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-051920     | 05/19/2020 | 53,000     | < 0.025 U     | < 95 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-081820     | 08/18/2020 | 76,000     | < 0.025 U     | < 48 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-102720     | 10/27/2020 | 34,000     | < 0.025 U     | < 4.8 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-031621     | 03/16/2021 | 60,000     | < 0.025 U     | 7.1 J       |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-092321     | 09/23/2021 | 39,000     | < 0.025 U     | 390         |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-121421     | 12/14/2021 | 51,000     | < 0.025       | 130         |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-031522     | 03/15/2022 | 23,000 J-  | < 0.060 U     | 270         |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-060622     | 06/06/2022 | 47,000     | < 0.30 U      | 66          |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-110722     | 11/07/2022 | 75,000     | < 0.060 U     | < 2.0 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-030623     | 03/06/2023 | 15,000     | < 0.060 U     | < 2.0 UJ    |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-061323     | 06/13/2023 | 20,000     | < 0.060       | < 2.0       |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-082223     | 08/22/2023 | 370,000    | < 0.060 U     | < 10 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-121023     | 12/10/2023 | 1,900      | < 0.060 U     | < 4.0 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-022524     | 02/25/2024 | 93,000     | < 0.060 U     | < 10 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-061124     | 06/11/2024 | 320,000    | < 0.060 U     | < 10 U      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-091024     | 09/10/2024 | 220,000    | < 0.060 U     | < 4.5 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-121124     | 12/11/2024 | 55,000     | < 0.060 U     | < 9.1 U     |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-021825     | 02/18/2025 | < 1,500 U  | < 0.060       | < 0.91      |
| Intermediate | PA-44i     | GCC6 & Proximal Wells        | PA-44i-051325     | 05/13/2025 | 62,000     | < 0.35        | < 36        |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-110519 | 11/05/2019 | 1,640,000  | < 0.44 U      | < 48 U      |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(d)-022620 | 02/26/2020 | 1,480,000  | 2.4           | < 0.95 U    |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(d)-052920 | 05/29/2020 | 1,600,000  | < 0.025 U     | < 9.5 U     |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(d)-082720 | 08/27/2020 | 1,500,000  | 0.071 j       | < 9.5 U     |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(d)-110420 | 11/04/2020 | 1,500,000  | 0.64 J        | < 4.8 U     |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-040221 | 04/02/2021 | 180,000    | 0.039 J       | < 20 U      |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-092421 | 09/24/2021 | 1,700,000  | 0.047 j       | < 10 U      |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-121621 | 12/16/2021 | 1,500,000  | < 0.025       | < 20        |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-031722 | 03/17/2022 | 2,200,000  | 0.060 j       | < 20 U      |
| Deep         | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-060922 | 06/09/2022 | 2,000,000  | < 0.70 U      | < 20 U      |

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| Aquifer | Well ID    | Cluster                      | Sample ID         | Date       | Chloride      | Chlorobenzene | Perchlorate |
|---------|------------|------------------------------|-------------------|------------|---------------|---------------|-------------|
|         |            |                              |                   |            | ug/L          | ug/L          | ug/L        |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-111022 | 11/10/2022 | 1,600,000     | 1.1           | < 40 U      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-030923 | 03/09/2023 | 1,200,000     | < 0.060 U     | < 20 UJ     |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-061623 | 06/16/2023 | 450,000       | 7.0           | < 10        |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-082323 | 08/23/2023 | 830,000       | < 0.060 U     | < 10 U      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-121323 | 12/13/2023 | 780,000       | < 0.060 U     | < 10 U      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-022824 | 02/28/2024 | 6,300,000     | 0.061 i       | < 10 U      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-061324 | 06/13/2024 | 650,000       | < 0.060 U     | < 10 U      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-091124 | 09/11/2024 | 530,000       | < 0.060 U     | < 0.91 U    |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-121224 | 12/12/2024 | 570,000       | < 0.060 U     | < 0.91 U    |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-022125 | 02/21/2025 | 730,000       | < 0.060       | < 0.91      |
| Deep    | MWA-11i(d) | Well Distal from BW and GCCs | MWA-11i(D)-051425 | 05/14/2025 | 900,000       | < 0.070 UJ    | < 0.91      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(d)-102419 | 10/24/2019 | 25,900,000    | 0.57 j        | 100,000     |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-021320 | 02/13/2020 | 27,700,000    | 0.58 j        | 91,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-052020 | 05/20/2020 | 27,000,000    | < 0.44 U      | 100,000     |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-081920 | 08/19/2020 | 23,000,000    | 0.52 j        | 89,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(d)-103020 | 10/30/2020 | 30,000,000    | < 0.44 U      | 91,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-032421 | 03/24/2021 | 27,000,000    | < 0.44 U      | 91,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-092321 | 09/23/2021 | 29,000,000    | < 0.44 U      | 91,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-121521 | 12/15/2021 | 18,000,000    | < 0.44        | 99,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-031622 | 03/16/2022 | 20,000,000    | < 0.44 U      | 97,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-060722 | 06/07/2022 | 28,000,000    | 0.32 j        | 100,000     |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-111022 | 11/10/2022 | 19,000,000    | 0.55 J        | 97,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-030923 | 03/09/2023 | 25,000,000    | 0.58 j        | 97,000 J-   |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-061523 | 06/15/2023 | 16,000,000    | < 1.0 U       | 86,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-082323 | 08/23/2023 | 27,000,000    | < 0.44 U      | 98,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-121123 | 12/11/2023 | 14,000,000    | < 0.44 U      | 28,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-022824 | 02/28/2024 | 26,000,000    | < 0.44 U      | 100,000     |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-061224 | 06/12/2024 | 21,000,000    | < 4.4 U       | 100,000     |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-091024 | 09/10/2024 | 16,000,000    | < 0.44 U      | 87,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-121224 | 12/12/2024 | 13,000,000    | < 0.44 U      | 74,000      |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-021925 | 02/19/2025 | 6,000,000     | < 0.44        | 3,700       |
| Deep    | MWA-31i(d) | GCC5 & Proximal Wells        | MWA-31i(D)-051325 | 05/13/2025 | 22,000,000    | 0.43 J-       | 100,000     |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-102419    | 10/24/2019 | 20,100,000    | < 0.44 U      | 3,300       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-021420    | 02/14/2020 | 22,300,000    | < 2.0 U       | 3,500       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-052120    | 05/21/2020 | 21,000,000    | < 0.44 U      | 5,700       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-082020    | 08/20/2020 | 24,000,000    | < 0.44 U      | 6,400       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56d-102920    | 10/29/2020 | 22,000,000    | < 0.44 U      | 7,100       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-032521    | 03/25/2021 | 26,000,000    | < 4.4 U       | 6,500       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-092421    | 09/24/2021 | 21,000,000    | < 0.44 U      | 8,100       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-121621    | 12/16/2021 | 18,000,000    | < 0.44        | 8,400       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-031722    | 03/17/2022 | 19,000,000    | < 0.44 U      | 9,200       |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-060822    | 06/08/2022 | 18,000,000    | < 0.30 U      | 11,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-110922    | 11/09/2022 | 15,000,000    | < 0.44 U      | 12,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-030923    | 03/09/2023 | 16,000,000    | < 0.44 U      | 15,000 J-   |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-061523    | 06/15/2023 | 15,000,000    | < 4.4         | 13,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-082323    | 08/23/2023 | 14,000,000    | < 0.44 U      | 14,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-121223    | 12/12/2023 | 14,000,000    | < 4.4 U       | 14,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-022824    | 02/28/2024 | 14,000,000    | < 4.4 U       | 16,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-061224    | 06/12/2024 | 13,000,000    | < 4.4 U       | 15,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-091124    | 09/11/2024 | 10,000,000    | < 4.4 U       | 14,000 J    |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-121224    | 12/12/2024 | 12,000,000    | < 4.4 U       | 13,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-021925    | 02/19/2025 | 13,000,000    | < 4.4         | 13,000      |
| Deep    | MWA-56d    | GCC4 & Proximal Wells        | MWA-56D-051425    | 05/14/2025 | 14,000,000    | < 0.30 UJ     | 12,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58d-102519    | 10/25/2019 | 18,900,000    | < 0.44 U      | 61,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-021320    | 02/13/2020 | 21,100,000    | < 0.44 U      | 49,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-052120    | 05/21/2020 | 19,000,000    | < 0.44 U      | 46,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-082020    | 08/20/2020 | 20,000,000    | < 0.44 U      | 45,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58d-102920    | 10/29/2020 | 20,000,000    | < 0.44 U      | 44,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-032621    | 03/26/2021 | 29,000,000 J- | < 0.44 U      | 43,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-092421    | 09/24/2021 | 23,000,000    | < 0.44 U      | 43,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-121621    | 12/16/2021 | 23,000,000    | < 4.4         | 38,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-031722    | 03/17/2022 | 26,000,000    | < 4.4 U       | 44,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-060822    | 06/08/2022 | 23,000,000    | < 0.30 U      | 47,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-110922    | 11/09/2022 | 19,000,000    | < 0.44 UJ     | 49,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-030923    | 03/09/2023 | 22,000,000    | < 2.2 U       | 49,000 J-   |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-061523    | 06/15/2023 | 19,000,000    | < 2.2         | 50,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-082323    | 08/23/2023 | 20,000,000    | < 2.2 U       | 50,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-121223    | 12/12/2023 | 19,000,000    | < 2.2 U       | 50,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-022824    | 02/28/2024 | 19,000,000    | < 4.4 U       | 50,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-061224    | 06/12/2024 | 19,000,000    | < 4.4 U       | 47,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-091124    | 09/11/2024 | 17,000,000    | < 4.4 U       | 54,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-121224    | 12/12/2024 | 17,000,000    | < 4.4 U       | 51,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-021925    | 02/19/2025 | 18,000,000    | < 4.4         | 53,000      |
| Deep    | MWA-58d    | GCC4 & Proximal Wells        | MWA-58D-051425    | 05/14/2025 | 18,000,000    | < 0.30 UJ     | 48,000      |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-032921     | 03/29/2021 | 110,000       | 81            | < 20 U      |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-030923     | 03/09/2023 | 50,000        | < 0.44 U      | < 20 UJ     |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-061623     | 06/16/2023 | 27,000 J-     | < 0.44        | < 40        |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-082123     | 08/21/2023 | 80,000        | < 0.44 U      | < 10 U      |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-121223     | 12/12/2023 | 54,000        | < 0.44 U      | < 10 U      |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-022724     | 02/27/2024 | 98,000        | < 0.44 U      | < 20 U      |
| Deep    | PA-18d     | GCC1 & Proximal Wells        | PA-18D-061224     | 06/12/2024 | 85,000        | < 0.44 U      | < 10 U      |

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
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| Aquifer | Well ID | Cluster               | Sample ID     | Date       | Chloride     | Chlorobenzene | Perchlorate |
|---------|---------|-----------------------|---------------|------------|--------------|---------------|-------------|
|         |         |                       |               |            | ug/L         | ug/L          | ug/L        |
| Deep    | PA-18d  | GCC1 & Proximal Wells | PA-18D-090924 | 09/09/2024 | 67,000       | < 0.44 U      | < 9.1 U     |
| Deep    | PA-18d  | GCC1 & Proximal Wells | PA-18D-121024 | 12/10/2024 | 65,000       | < 0.44 U      | < 91 U      |
| Deep    | PA-18d  | GCC1 & Proximal Wells | PA-18D-022125 | 02/21/2025 | 75,000       | < 0.44        | < 36        |
| Deep    | PA-18d  | GCC1 & Proximal Wells | PA-18D-051425 | 05/14/2025 | 53,000       | < 0.30 UJ     | < 91        |
| Deep    | PA-19d  | GCC2                  | Pa-19d-110619 | 11/06/2019 | 94,000       | 9,300 J-      | < 48 U      |
| Deep    | PA-19d  | GCC2                  | Pa-19d-022620 | 02/26/2020 | 111,000      | 8,300         | < 48 U      |
| Deep    | PA-19d  | GCC2                  | PA-19d-052920 | 05/29/2020 | 140,000      | 8,200         | < 48 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-082620 | 08/26/2020 | 160,000      | 5,200         | < 95 U      |
| Deep    | PA-19d  | GCC2                  | PA-19d-110520 | 11/05/2020 | 180,000      | 3,800         | < 48 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-040521 | 04/05/2021 | 340,000      | 7,100         | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-092321 | 09/23/2021 | 320,000 J    | < 0.44 R      | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-121621 | 12/16/2021 | 330,000      | 2,700 J       | < 200       |
| Deep    | PA-19d  | GCC2                  | PA-19D-031722 | 03/17/2022 | 340,000      | 2,600         | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-060922 | 06/09/2022 | 360,000      | 3,200         | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-111022 | 11/10/2022 | 280,000      | 2,500         | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-030923 | 03/09/2023 | 350,000      | 12,000 J      | < 10 UJ     |
| Deep    | PA-19d  | GCC2                  | PA-19D-061623 | 06/16/2023 | 320,000      | 9,000         | < 40        |
| Deep    | PA-19d  | GCC2                  | PA-19D-082423 | 08/24/2023 | 320,000      | 6,600         | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-121323 | 12/13/2023 | 340,000      | 7,600         | < 10 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-022824 | 02/28/2024 | 330,000      | 5,700         | < 10 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-061324 | 06/13/2024 | 290,000      | 12,000        | < 20 U      |
| Deep    | PA-19d  | GCC2                  | PA-19D-091124 | 09/11/2024 | 270,000      | 6,300         | < 4.5 U     |
| Deep    | PA-19d  | GCC2                  | PA-19D-121224 | 12/12/2024 | 300,000      | 11,000        | 100         |
| Deep    | PA-19d  | GCC2                  | PA-19D-022025 | 02/20/2025 | 280,000      | 11,000        | 89          |
| Deep    | PA-19d  | GCC2                  | PA-19D-051425 | 05/14/2025 | 250,000      | 13,000 J-     | 100         |
| Deep    | PA-20d  | GCC3                  | PA-20d-110719 | 11/07/2019 | 570,000      | 41            | 56 J+       |
| Deep    | PA-20d  | GCC3                  | Pa-20d-022420 | 02/24/2020 | 789,000      | 39            | 58          |
| Deep    | PA-20d  | GCC3                  | PA-20d-052120 | 05/21/2020 | 840,000      | 40            | 46          |
| Deep    | PA-20d  | GCC3                  | PA-20D-082520 | 08/25/2020 | 800,000 J+   | 31            | 58          |
| Deep    | PA-20d  | GCC3                  | PA-20d-110320 | 11/03/2020 | 840,000      | 37 J          | 61          |
| Deep    | PA-20d  | GCC3                  | PA-20D-032521 | 03/25/2021 | 1,100,000    | 23            | 76          |
| Deep    | PA-20d  | GCC3                  | PA-20D-092221 | 09/22/2021 | 1,100,000    | 24            | 99          |
| Deep    | PA-20d  | GCC3                  | PA-20D-121521 | 12/15/2021 | 1,000,000    | 23            | < 100       |
| Deep    | PA-20d  | GCC3                  | PA-20D-031722 | 03/17/2022 | 1,200,000    | 12            | 140         |
| Deep    | PA-20d  | GCC3                  | PA-20D-060922 | 06/09/2022 | 1,100,000    | 18            | < 20 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-111022 | 11/10/2022 | 1,000,000    | 9.3           | < 20 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-030923 | 03/09/2023 | 1,100,000    | 13            | < 10 UJ     |
| Deep    | PA-20d  | GCC3                  | PA-20D-061523 | 06/15/2023 | 880,000      | 14            | < 20        |
| Deep    | PA-20d  | GCC3                  | PA-20D-082323 | 08/23/2023 | 840,000      | 20            | < 10 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-121223 | 12/12/2023 | 810,000      | 18            | < 10 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-022824 | 02/28/2024 | 820,000      | 14            | < 10 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-061324 | 06/13/2024 | 680,000      | 4.5           | < 10 U      |
| Deep    | PA-20d  | GCC3                  | PA-20D-091124 | 09/11/2024 | 620,000      | 2.7           | 74          |
| Deep    | PA-20d  | GCC3                  | PA-20D-121224 | 12/12/2024 | 580,000      | 1.7           | 48          |
| Deep    | PA-20d  | GCC3                  | PA-20D-022025 | 02/20/2025 | 580,000      | 1.7           | 28          |
| Deep    | PA-20d  | GCC3                  | PA-20D-051425 | 05/14/2025 | 460,000      | 4.1 J-        | < 0.91      |
| Deep    | PA-21d  | GCC3                  | Pa-21d-110719 | 11/07/2019 | 347,000      | 27,000        | 2,400       |
| Deep    | PA-21d  | GCC3                  | Pa-21d-022620 | 02/26/2020 | 463,000      | 38,000        | 1,300       |
| Deep    | PA-21d  | GCC3                  | PA-21D-052120 | 05/21/2020 | 420,000      | 49,000 J      | 1,200       |
| Deep    | PA-21d  | GCC3                  | PA-21D-082520 | 08/25/2020 | 360,000      | 36,000        | 1,300       |
| Deep    | PA-21d  | GCC3                  | PA-21d-110420 | 11/04/2020 | 370,000      | 40,000 J+     | 1,300       |
| Deep    | PA-21d  | GCC3                  | PA-21D-040121 | 04/01/2021 | 430,000      | 47,000        | < 20 U      |
| Deep    | PA-21d  | GCC3                  | PA-21D-092421 | 09/24/2021 | 350,000      | 39,000 J      | 1,800       |
| Deep    | PA-21d  | GCC3                  | PA-21D-121521 | 12/15/2021 | 320,000      | 49,000 J      | 1,200       |
| Deep    | PA-21d  | GCC3                  | PA-21D-031722 | 03/17/2022 | 360,000      | 16,000        | 1,100       |
| Deep    | PA-21d  | GCC3                  | PA-21D-060922 | 06/09/2022 | 360,000      | 27,000        | < 20 U      |
| Deep    | PA-21d  | GCC3                  | PA-21D-111022 | 11/10/2022 | 290,000      | 15,000        | < 100 U     |
| Deep    | PA-21d  | GCC3                  | PA-21D-030923 | 03/09/2023 | 340,000      | 30,000 J      | 110 J-      |
| Deep    | PA-21d  | GCC3                  | PA-21D-061623 | 06/16/2023 | 330,000      | 23,000        | < 100       |
| Deep    | PA-21d  | GCC3                  | PA-21D-082323 | 08/23/2023 | 330,000      | 26,000        | < 100 U     |
| Deep    | PA-21d  | GCC3                  | PA-21D-121223 | 12/12/2023 | 340,000      | 11,000        | < 10 U      |
| Deep    | PA-21d  | GCC3                  | PA-21D-022824 | 02/28/2024 | 300,000      | 27,000        | < 10 U      |
| Deep    | PA-21d  | GCC3                  | PA-21D-061324 | 06/13/2024 | 300,000      | 41,000        | < 10 U      |
| Deep    | PA-21d  | GCC3                  | PA-21D-022025 | 02/20/2025 | 350,000      | 43,000        | 1,100       |
| Deep    | PA-21d  | GCC3                  | PA-21D-051425 | 05/14/2025 | 370,000      | 41,000 J-     | 1,100       |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22d-102419 | 10/24/2019 | 10,200,000   | < 0.44 U      | 54,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | Pa-22d-022120 | 02/21/2020 | 9,190,000    | < 0.44 U      | 38,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22d-052020 | 05/20/2020 | 9,800,000    | < 0.44 U      | 40,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-082120 | 08/21/2020 | 9,200,000 J+ | < 0.44 U      | 38,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22d-110320 | 11/03/2020 | 9,100,000    | < 0.44 U      | 37,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-032421 | 03/24/2021 | 8,200,000    | < 0.44 U      | 33,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-092221 | 09/22/2021 | 7,400,000    | < 0.44 U      | 26,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-121521 | 12/15/2021 | 7,100,000    | < 0.44        | 24,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-031622 | 03/16/2022 | 8,000,000    | < 0.44 U      | 23,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-060822 | 06/08/2022 | 7,300,000    | < 0.30 U      | 22,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-110922 | 11/09/2022 | 6,000,000    | < 0.44 U      | 17,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-030823 | 03/08/2023 | 6,000,000    | < 0.44 U      | 17,000 J-   |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-061523 | 06/15/2023 | 5,600,000    | < 0.44        | 15,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-082323 | 08/23/2023 | 4,800,000    | < 0.44 U      | 13,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-121223 | 12/12/2023 | 5,300,000    | < 0.44 U      | 13,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-022724 | 02/27/2024 | 5,300,000    | < 0.44 U      | 14,000      |

Appendix D  
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| Aquifer | Well ID | Cluster               | Sample ID     | Date       | Chloride   | Chlorobenzene | Perchlorate |
|---------|---------|-----------------------|---------------|------------|------------|---------------|-------------|
|         |         |                       |               |            | ug/L       | ug/L          | ug/L        |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-061224 | 06/12/2024 | 5,100,000  | < 0.44 U      | 14,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-091124 | 09/11/2024 | 4,300,000  | < 0.44 U      | 15,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-121224 | 12/12/2024 | 5,000,000  | < 0.44 U      | 14,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-022025 | 02/20/2025 | 5,200,000  | < 0.44        | 13,000      |
| Deep    | PA-22d  | GCC4 & Proximal Wells | PA-22D-051325 | 05/13/2025 | 5,100,000  | < 0.30 UJ     | 13,000      |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23d-110519 | 11/05/2019 | 12,500     | 2.8           | < 0.95 U    |
| Deep    | PA-23d  | GCC5 & Proximal Wells | Pa-23d-021920 | 02/19/2020 | 5,690,000  | < 0.44 U      | < 0.95 U    |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23d-052020 | 05/20/2020 | 12,000,000 | 1.3 j         | < 4.8 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-082020 | 08/20/2020 | 22,000,000 | < 0.44 U      | < 4.8 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23d-102920 | 10/29/2020 | 27,000,000 | < 0.44 U      | < 0.95 U    |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-032521 | 03/25/2021 | 16,000,000 | < 0.44 U      | < 1,000 U   |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-092321 | 09/23/2021 | 17,000,000 | < 0.44 U      | < 100 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-121421 | 12/14/2021 | 5,700,000  | < 0.44        | < 50        |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-031622 | 03/16/2022 | 89,000     | < 0.44 U      | < 2.0 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-060722 | 06/07/2022 | 9,700,000  | < 0.30 U      | < 100 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-111022 | 11/10/2022 | 6,900,000  | < 0.44 U      | < 200 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-030823 | 03/08/2023 | 17,000,000 | < 0.44 U      | < 200 UJ    |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-061523 | 06/15/2023 | 25,000,000 | < 0.44        | < 400       |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-082223 | 08/22/2023 | 29,000,000 | < 0.44 U      | < 400 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-121123 | 12/11/2023 | 30,000,000 | < 0.44 U      | < 300 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-022724 | 02/27/2024 | 9,700,000  | < 0.44 U      | < 100 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-061124 | 06/11/2024 | 31,000,000 | < 0.44 U      | < 400 U     |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-091024 | 09/10/2024 | 33,000,000 | < 0.44 U      | < 18 U      |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-121124 | 12/11/2024 | 31,000,000 | < 0.44 U      | < 0.91 U    |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-021925 | 02/19/2025 | 33,000,000 | < 0.44        | < 91        |
| Deep    | PA-23d  | GCC5 & Proximal Wells | PA-23D-051325 | 05/13/2025 | 31,000,000 | < 0.30 UJ     | < 36        |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24d-110619 | 11/06/2019 | 42,300,000 | < 0.44 U      | < 48 U      |
| Deep    | PA-24d  | GCC5 & Proximal Wells | Pa-24d-022020 | 02/20/2020 | 41,500,000 | < 0.44 U      | < 48 U      |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24d-051920 | 05/19/2020 | 46,000,000 | < 0.44 U      | < 48 U      |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-082020 | 08/20/2020 | 43,000,000 | < 0.44 U      | < 19 U      |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24d-102920 | 10/29/2020 | 44,000,000 | < 0.44 U      | < 4.8 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-031821 | 03/18/2021 | 44,000,000 | < 0.44 U      | < 200 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-092221 | 09/22/2021 | 38,000,000 | < 0.44 U      | < 100 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-121521 | 12/15/2021 | 35,000,000 | < 0.44        | < 200       |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-031622 | 03/16/2022 | 38,000,000 | < 0.44 U      | < 200 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-060722 | 06/07/2022 | 35,000,000 | < 0.30 U      | < 400 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-111022 | 11/10/2022 | 32,000,000 | < 0.44 U      | < 200 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-030823 | 03/08/2023 | 33,000,000 | < 0.44 U      | < 400 UJ    |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-061523 | 06/15/2023 | 33,000,000 | < 0.44        | < 400       |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-082223 | 08/22/2023 | 31,000,000 | < 0.44 U      | < 400 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-121123 | 12/11/2023 | 31,000,000 | < 0.44 U      | < 200 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-022724 | 02/27/2024 | 30,000,000 | < 0.44 U      | < 400 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-061224 | 06/12/2024 | 30,000,000 | < 0.44 U      | < 400 U     |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-091024 | 09/10/2024 | 30,000,000 | < 0.44 U      | < 18 U      |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-121124 | 12/11/2024 | 30,000,000 | < 0.44 U      | < 0.91 U    |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-021925 | 02/19/2025 | 29,000,000 | < 0.44        | < 91        |
| Deep    | PA-24d  | GCC5 & Proximal Wells | PA-24D-051225 | 05/12/2025 | 630,000    | < 3.0 UJ      | < 36        |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25d-110519 | 11/05/2019 | 1,100      | < 0.44 U      | < 0.95 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | Pa-25d-021820 | 02/18/2020 | 22,100     | < 0.025 U     | < 0.95 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | Pa-25d-051820 | 05/18/2020 | 23,000     | < 0.025 U     | < 0.95 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-081820 | 08/18/2020 | 24,000     | < 0.025 U     | < 9.5 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25d-102720 | 10/27/2020 | 20,000     | < 0.20 U      | < 0.95 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-031821 | 03/18/2021 | 20,000     | < 0.025 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-092121 | 09/22/2021 | 24,000     | < 0.025 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-121421 | 12/14/2021 | 23,000     | < 0.025       | < 2.0       |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-031422 | 03/14/2022 | 18,000 J-  | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-060722 | 06/07/2022 | 23,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-110722 | 11/07/2022 | 34,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-030823 | 03/08/2023 | 11,000 J+  | < 0.060 U     | < 2.0 UJ    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-061323 | 06/13/2023 | 10,000     | < 0.060       | < 2.0       |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-082223 | 08/22/2023 | 24,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-121123 | 12/11/2023 | 12,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-022724 | 02/27/2024 | 13,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-061124 | 06/11/2024 | 30,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-090924 | 09/09/2024 | 21,000     | < 0.060 U     | < 0.91 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-121024 | 12/10/2024 | 30,000 J+  | < 0.060 U     | < 0.91 U    |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-021825 | 02/18/2025 | 32,000     | < 0.060       | < 0.91      |
| Deep    | PA-25d  | GCC6 & Proximal Wells | PA-25D-051225 | 05/12/2025 | 15,000     | < 0.070       | < 0.91      |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26d-110419 | 11/04/2019 | 7,400      | < 0.44 U      | < 0.95 U    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | Pa-26d-021320 | 02/13/2020 | 46,000     | 0.71          | < 0.95 U    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-051820 | 05/18/2020 | 48,000     | < 0.025 U     | < 0.95 U    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-081920 | 08/19/2020 | 48,000     | < 0.025 U     | < 9.5 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26d-102820 | 10/28/2020 | 52,000     | < 0.025 U     | 1.1 j       |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-031621 | 03/16/2021 | 37,000     | < 0.025 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-092321 | 09/23/2021 | 60,000     | < 0.025 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-121321 | 12/13/2021 | 62,000     | < 0.025       | < 4.0       |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-031522 | 03/15/2022 | 72,000 J-  | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-060722 | 06/07/2022 | 63,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-110822 | 11/08/2022 | 6,500      | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-030823 | 03/08/2023 | 69,000     | < 0.060 U     | < 2.0 UJ    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-061423 | 06/14/2023 | 67,000 J   | < 0.060       | < 2.0       |

Appendix D  
Prior Groundwater Monitoring Plan Data Table  
Arkema Quarter 2, 2025, Groundwater Monitoring Report  
Arkema Inc. Facility  
Portland, Oregon

| Aquifer | Well ID | Cluster               | Sample ID     | Date       | Chloride   | Chlorobenzene | Perchlorate |
|---------|---------|-----------------------|---------------|------------|------------|---------------|-------------|
|         |         |                       |               |            | ug/L       | ug/L          | ug/L        |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-082223 | 08/22/2023 | 74,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-121123 | 12/11/2023 | 27,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-022624 | 02/26/2024 | 64,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-061024 | 06/10/2024 | 80,000     | < 0.060 U     | < 2.0 U     |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-090924 | 09/09/2024 | 60,000     | < 0.060 U     | < 0.91 U    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-121024 | 12/10/2024 | 80,000     | < 0.060 U     | < 0.91 U    |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-022125 | 02/21/2025 | 84,000     | < 0.060       | < 0.91      |
| Deep    | PA-26d  | GCC6 & Proximal Wells | PA-26D-051225 | 05/12/2025 | 86,000     | < 0.070       | < 0.91      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27d-102519 | 10/25/2019 | 1,150,000  | < 0.44 U      | < 4.8 U     |
| Deep    | PA-27d  | GCC1 & Proximal Wells | Pa-27d-021420 | 02/14/2020 | 824,000    | 0.84 j        | < 48 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-052120 | 05/21/2020 | 870,000    | < 0.44 U      | < 48 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-081820 | 08/18/2020 | 810,000 J+ | 0.52 j        | < 95 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27d-110420 | 11/04/2020 | 1,100,000  | 3.5 J         | < 19 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-032321 | 03/23/2021 | 710,000 J- | < 0.44 U      | < 20 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-092221 | 09/22/2021 | 840,000    | < 0.44 U      | < 20 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-121321 | 12/13/2021 | 930,000    | < 0.44        | < 20        |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-031622 | 03/16/2022 | 1,000,000  | < 0.44 U      | < 20 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-060822 | 06/08/2022 | 890,000    | < 0.30 U      | < 20 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-110822 | 11/08/2022 | 960,000    | < 0.44 U      | < 10 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-030823 | 03/08/2023 | 670,000    | < 0.44 U      | < 20 UJ     |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-061423 | 06/14/2023 | 690,000    | < 0.44        | < 20        |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-082223 | 08/22/2023 | 660,000    | < 0.44 U      | < 10 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-121223 | 12/12/2023 | 450,000    | < 0.44 U      | < 10 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-022724 | 02/27/2024 | 460,000    | < 0.44 U      | < 20 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-061224 | 06/12/2024 | 540,000    | < 0.44 U      | < 10 U      |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-090924 | 09/09/2024 | 720,000    | < 0.44 U      | < 9.1 U     |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-120924 | 12/09/2024 | 590,000    | < 0.44 U      | < 9.1 U     |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-022125 | 02/21/2025 | 600,000    | < 0.44        | < 36        |
| Deep    | PA-27d  | GCC1 & Proximal Wells | PA-27D-051325 | 05/13/2025 | 600,000    | < 1.5 UJ      | < 91        |
| Deep    | PA-30d  | GCC2                  | PA-30d-103119 | 10/31/2019 | 170,000    | 4,900 J-      | < 48 U      |
| Deep    | PA-30d  | GCC2                  | Pa-30d-022520 | 02/25/2020 | 207,000    | 5,700         | < 190 U     |
| Deep    | PA-30d  | GCC2                  | PA-30d-052120 | 05/21/2020 | 280,000    | 5,800         | < 48 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-082720 | 08/27/2020 | 320,000    | 5,800         | < 95 U      |
| Deep    | PA-30d  | GCC2                  | PA-30d-110520 | 11/05/2020 | 440,000    | 4,700         | < 48 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-040221 | 04/02/2021 | 56,000     | 4,600         | < 100 U     |
| Deep    | PA-30d  | GCC2                  | PA-30D-092421 | 09/24/2021 | 540,000    | < 0.44 R      | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-121621 | 12/16/2021 | 490,000    | 3,500         | < 200       |
| Deep    | PA-30d  | GCC2                  | PA-30D-031722 | 03/17/2022 | 490,000    | 4,700         | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-060922 | 06/09/2022 | 460,000    | 6,600         | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-111022 | 11/10/2022 | 270,000    | 26,000        | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-030923 | 03/09/2023 | 300,000    | 24,000        | < 20 UJ     |
| Deep    | PA-30d  | GCC2                  | PA-30D-061623 | 06/16/2023 | 310,000    | 19,000        | < 40        |
| Deep    | PA-30d  | GCC2                  | PA-30D-082423 | 08/24/2023 | 320,000    | 20,000        | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-121323 | 12/13/2023 | 320,000    | 22,000        | < 10 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-022824 | 02/28/2024 | 370,000    | 18,000        | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-061424 | 06/14/2024 | 320,000    | 13,000        | < 20 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-091124 | 09/11/2024 | 270,000    | 8,200         | < 18 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-121224 | 12/12/2024 | 250,000    | 7,000         | < 91 U      |
| Deep    | PA-30d  | GCC2                  | PA-30D-022025 | 02/20/2025 | 280,000    | 6,700         | < 91        |
| Deep    | PA-30d  | GCC2                  | PA-30D-051525 | 05/15/2025 | 310,000    | 6,900 J-      | < 91        |

Notes:

Bolded values indicate concentrations above the Reportable Detection Limit.

< = Compound not detected. Reportable detection limit shown.

ug/L = micrograms per liter

Qualifiers:

j = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.

J = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.

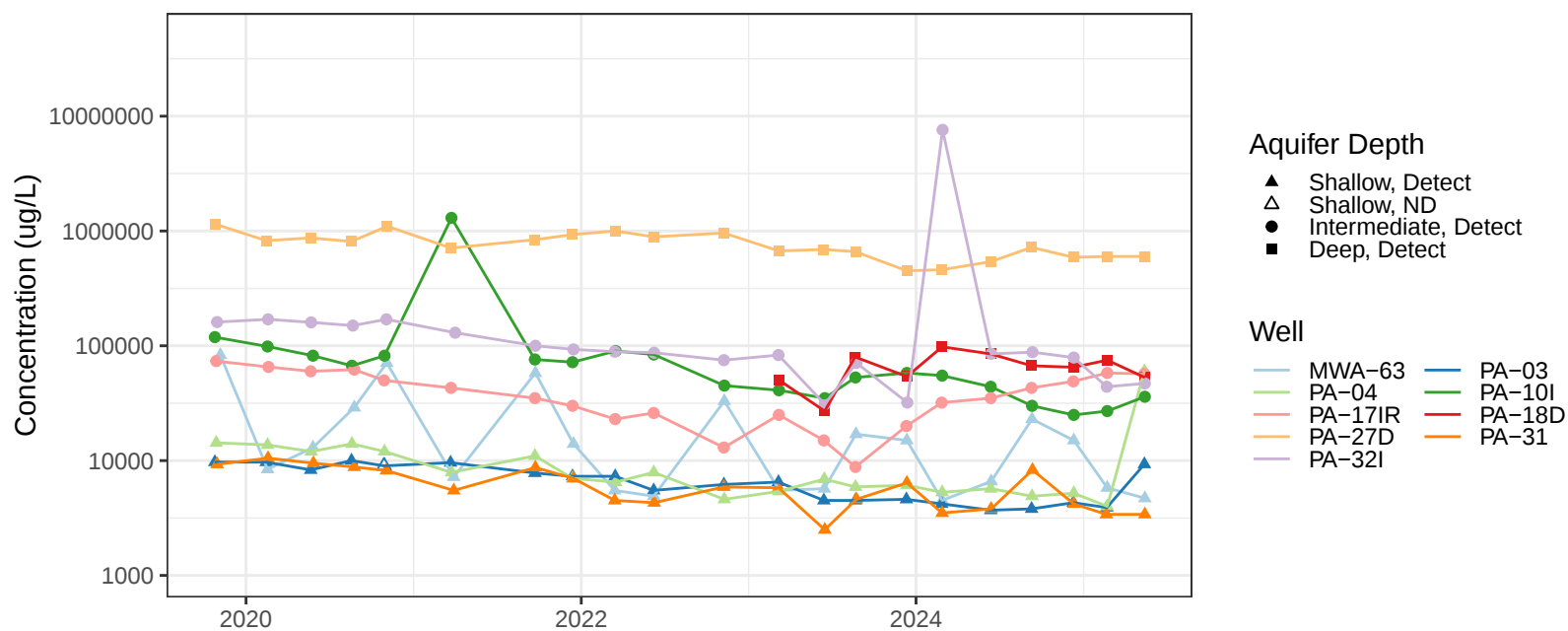
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.

U = Compound not detected based on quality assurance review.

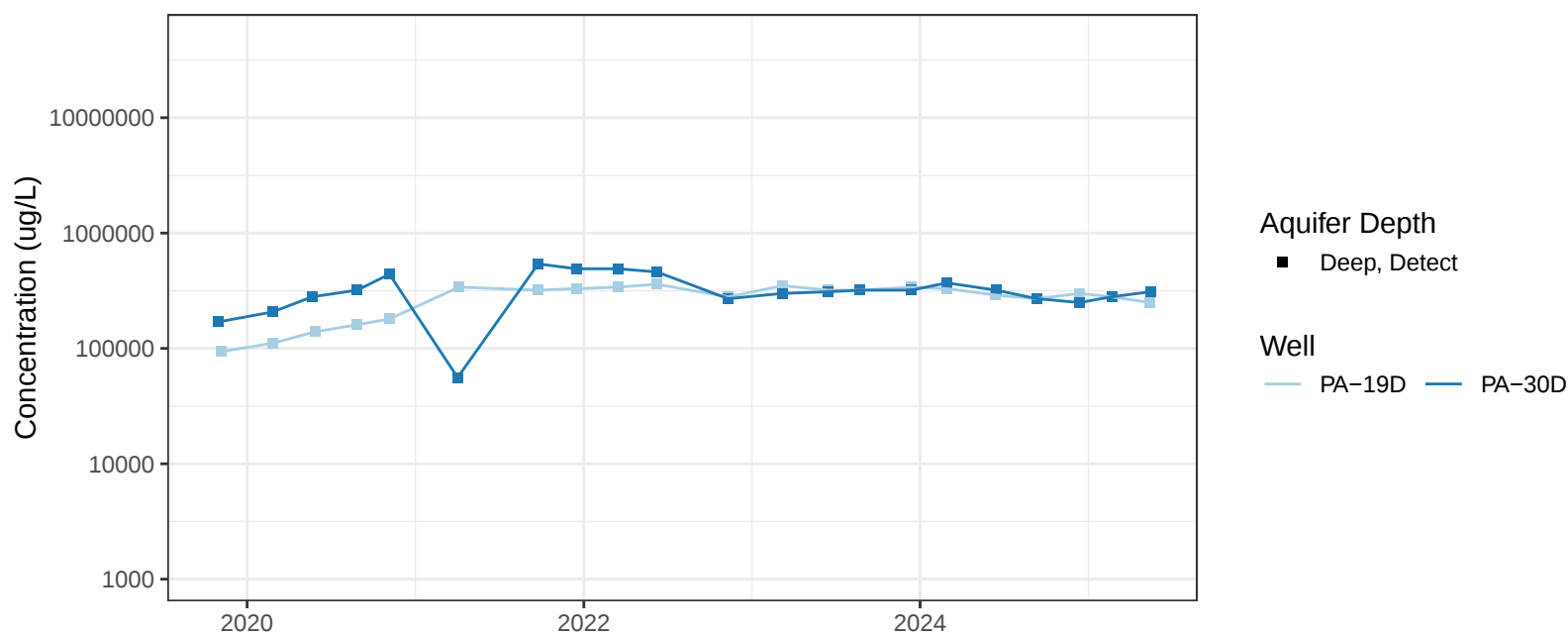
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.

R = Rejected. Quality control indicates that the data are unusable (compound may or not be present).

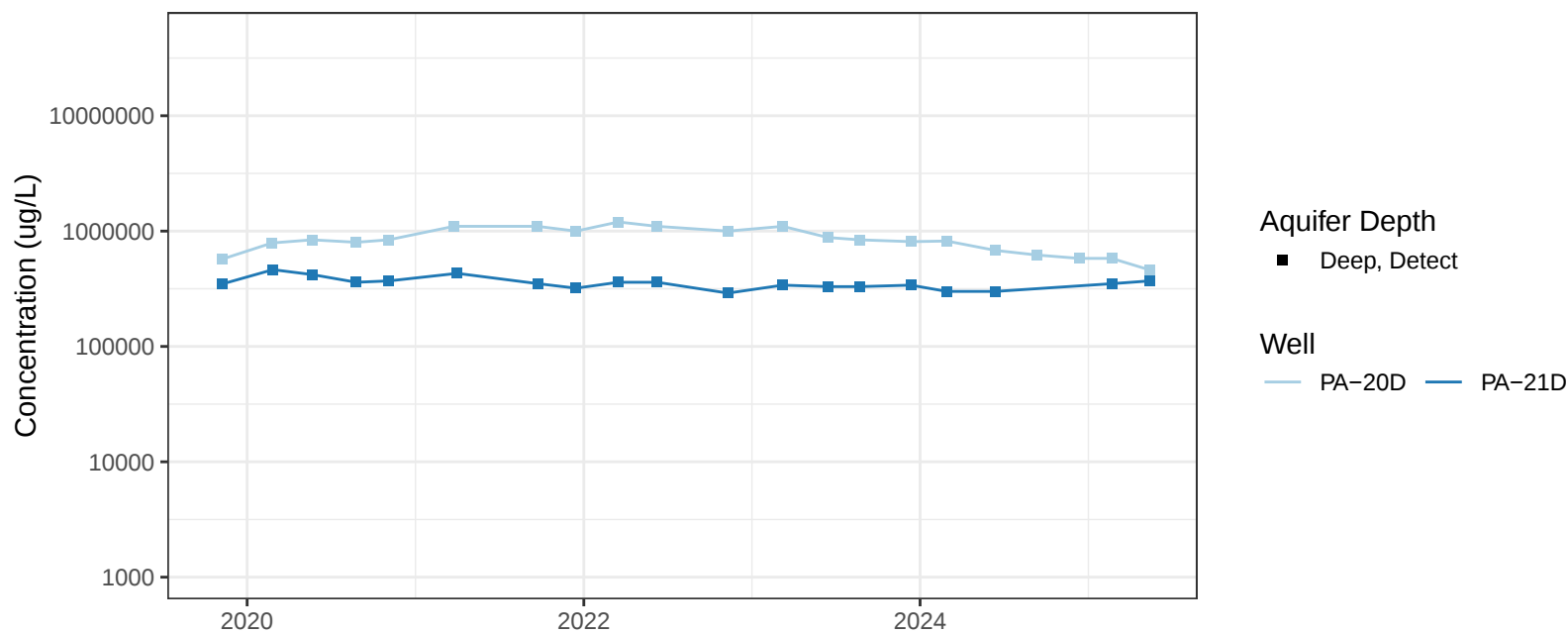
### Chloride in GCC1 & Proximal Wells



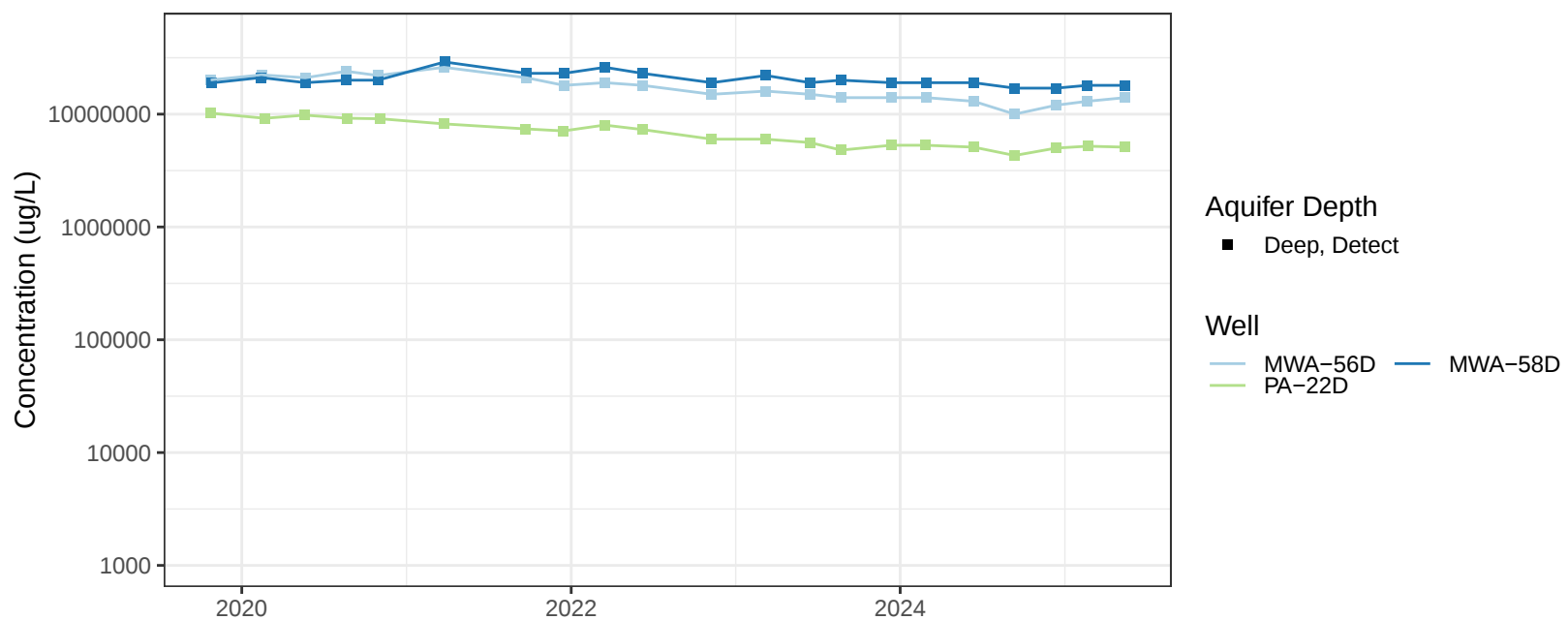
### Chloride in GCC2



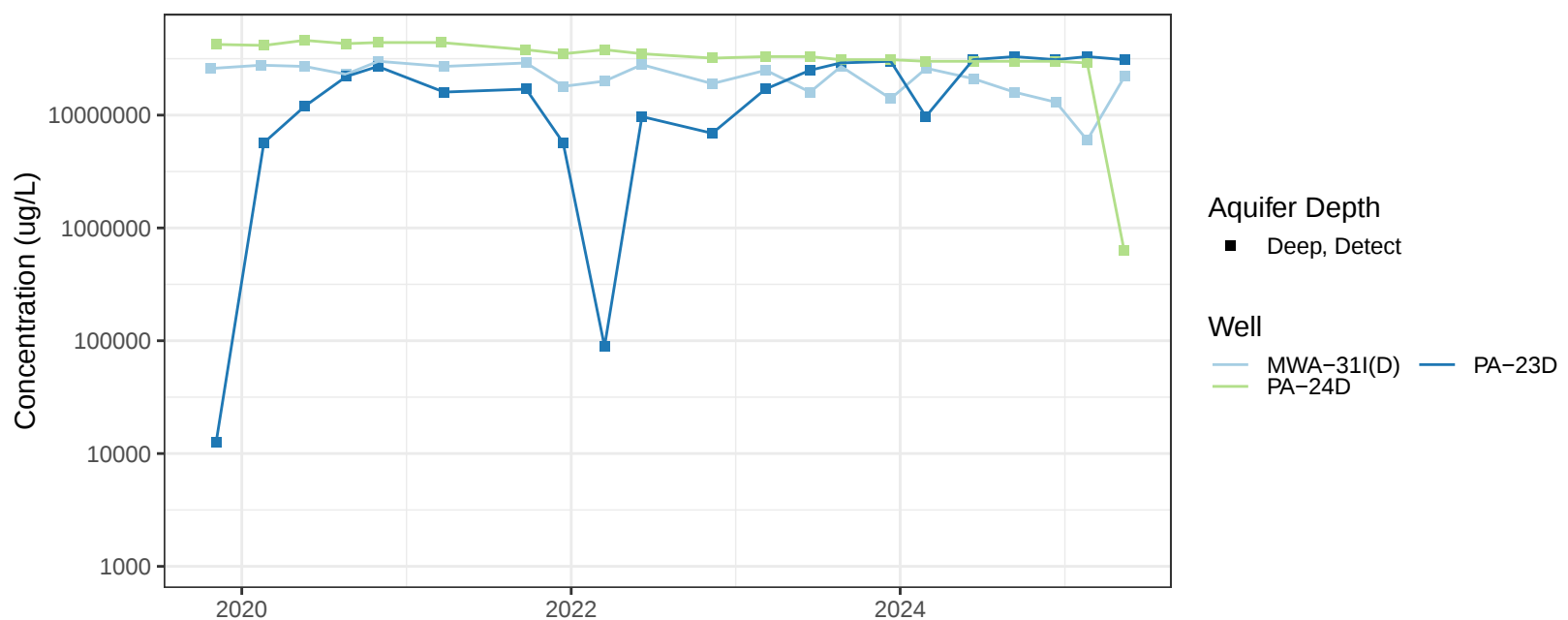
### Chloride in GCC3



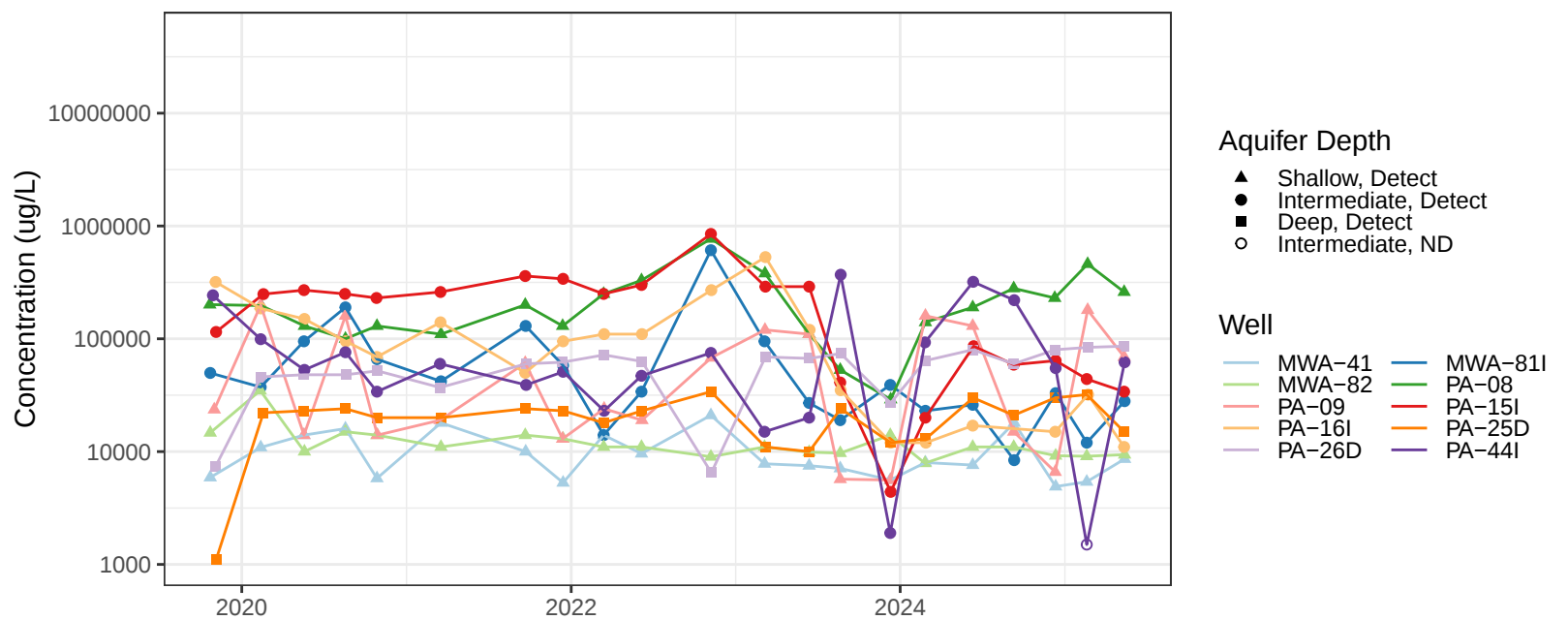
### Chloride in GCC4 & Proximal Wells



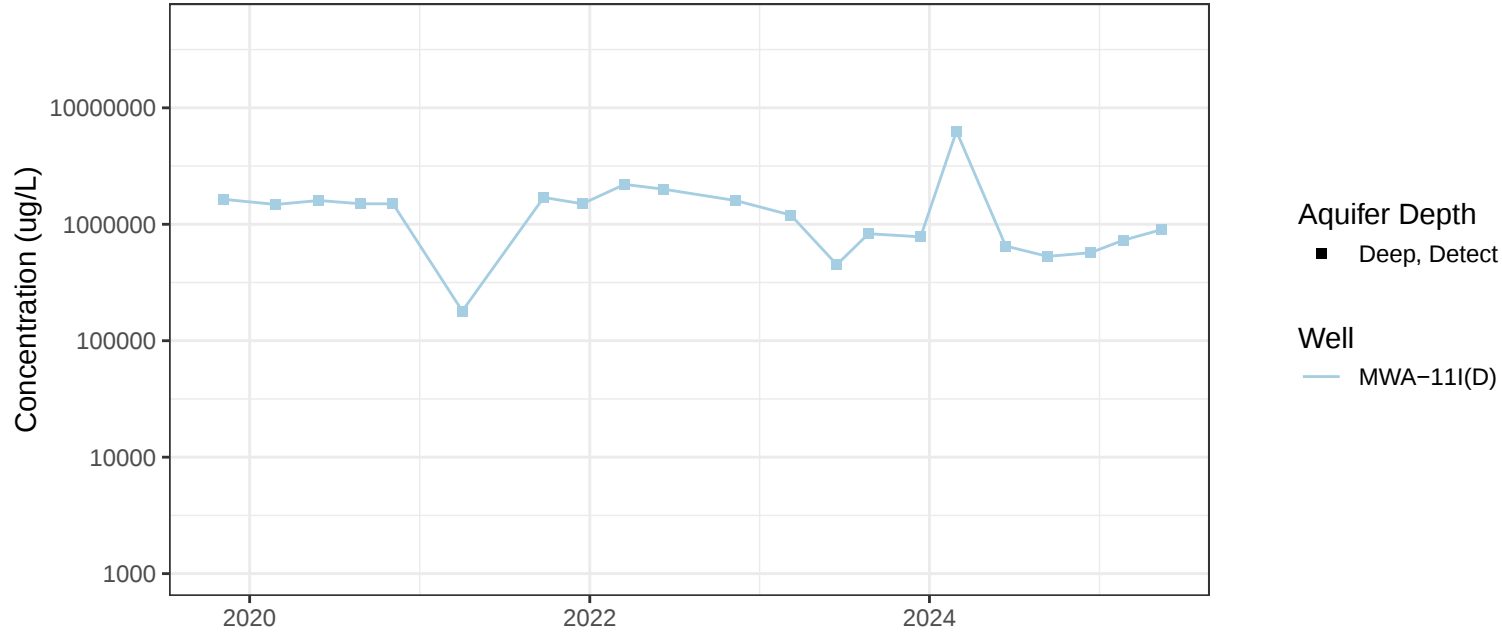
### Chloride in GCC5 & Proximal Wells



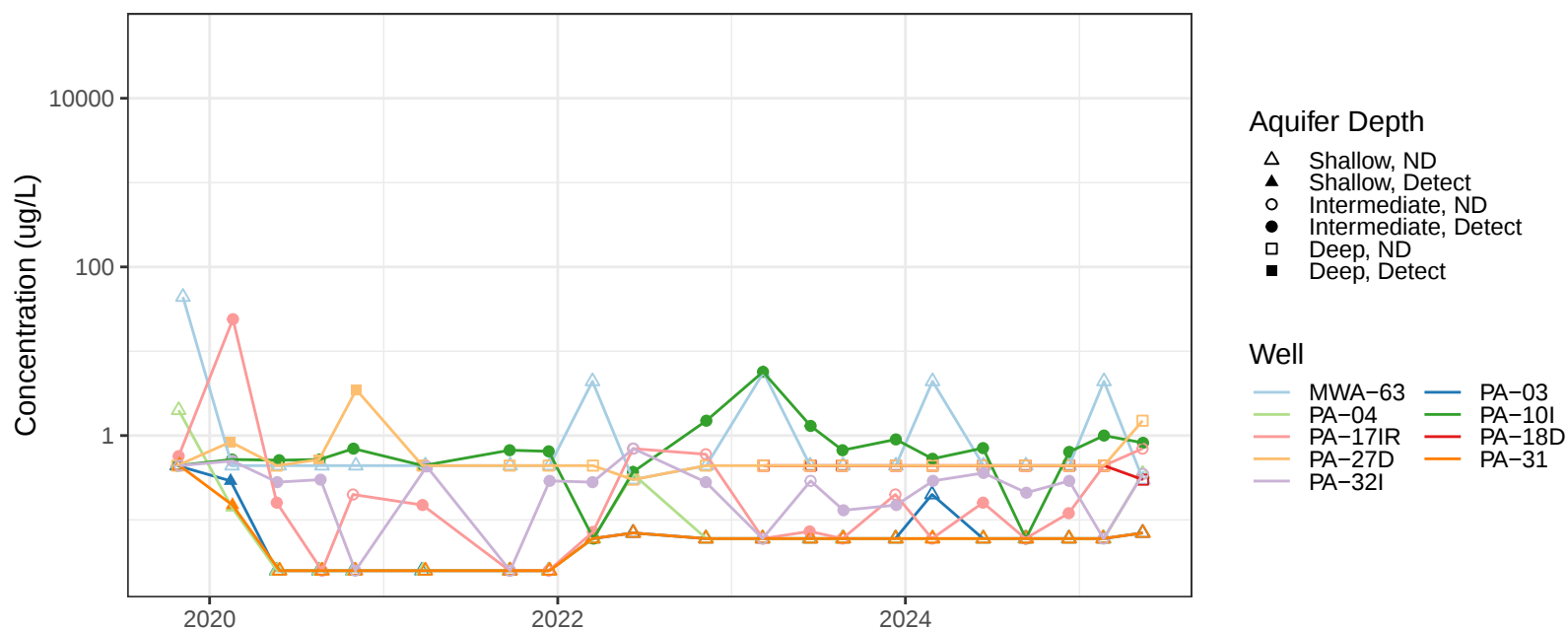
### Chloride in GCC6 & Proximal Wells



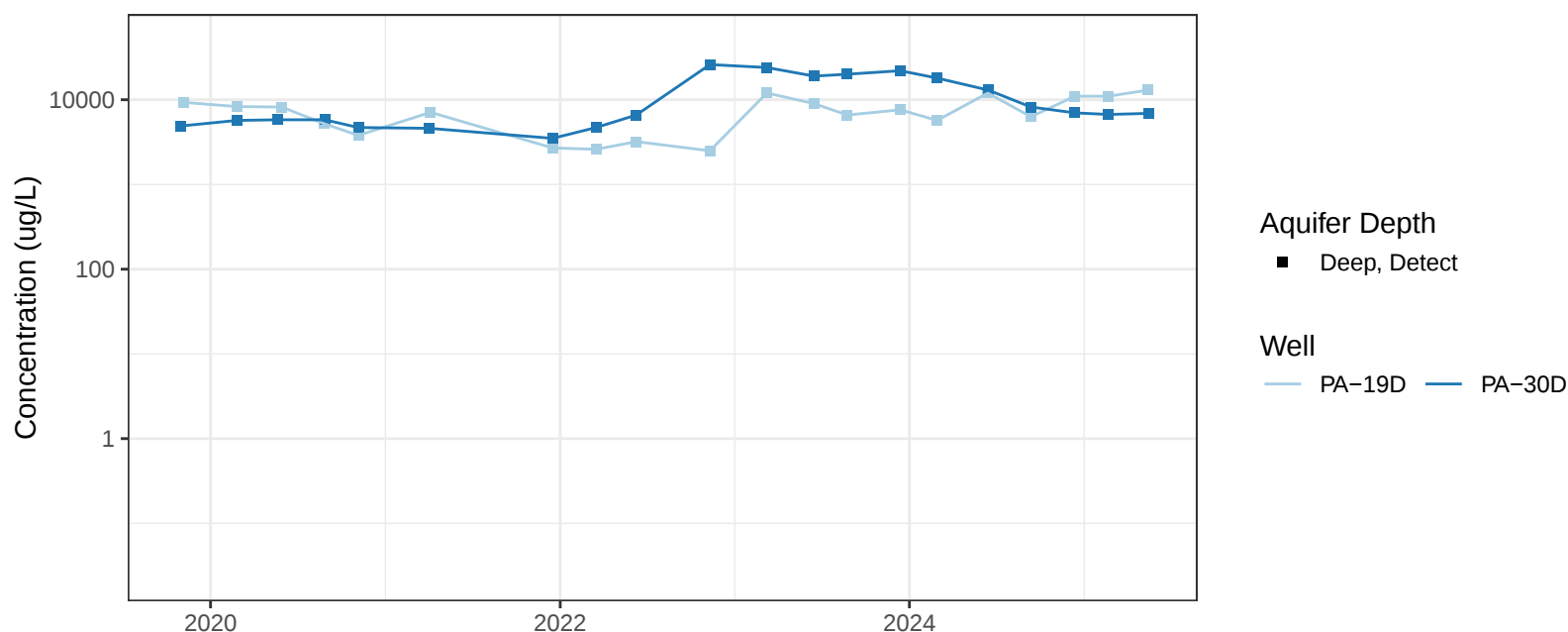
Chloride in Well Distal from BW and GCCs



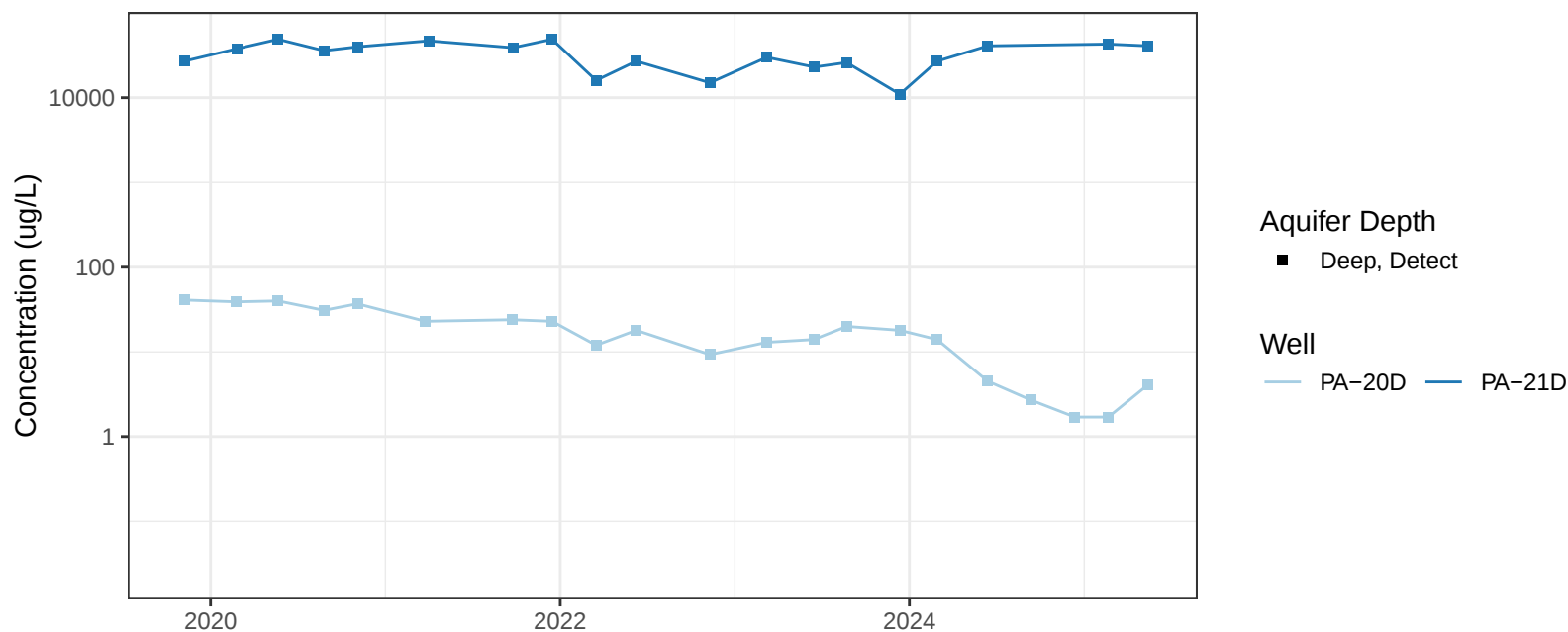
Chlorobenzene in GCC1 &amp; Proximal Wells



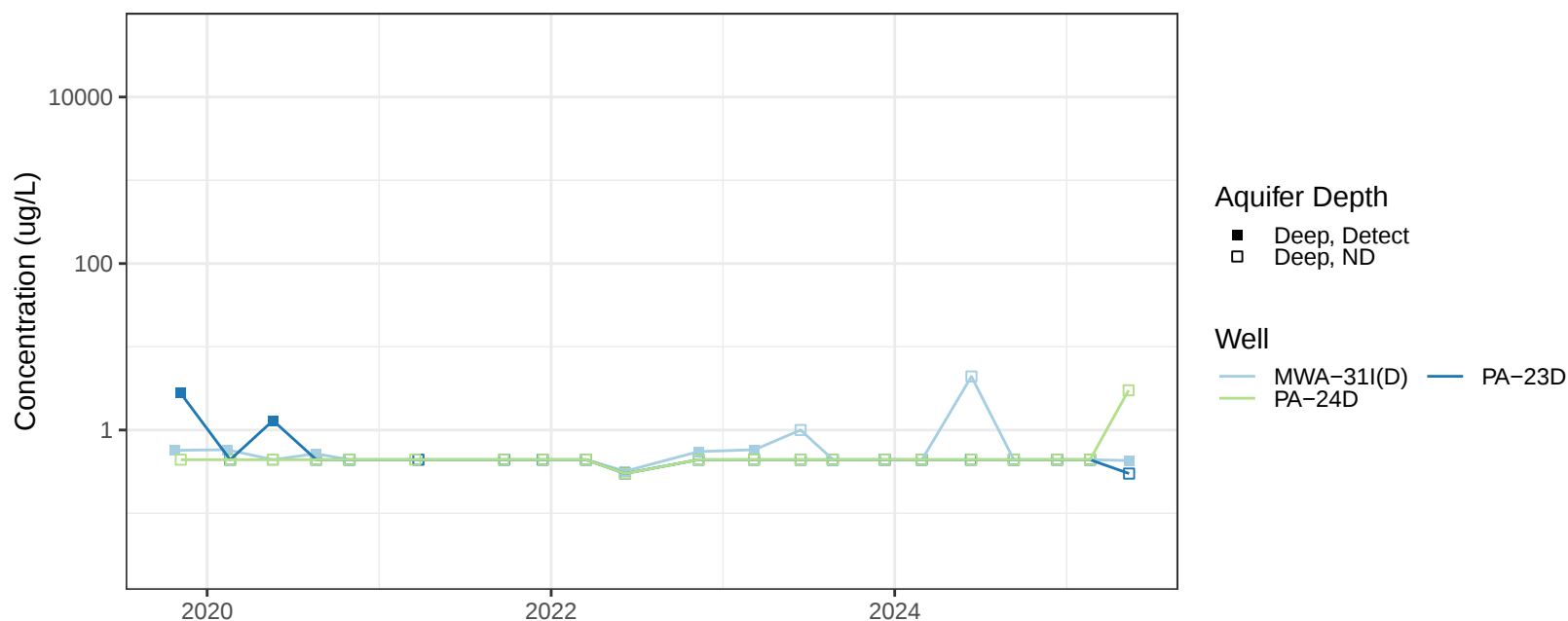
Chlorobenzene in GCC2



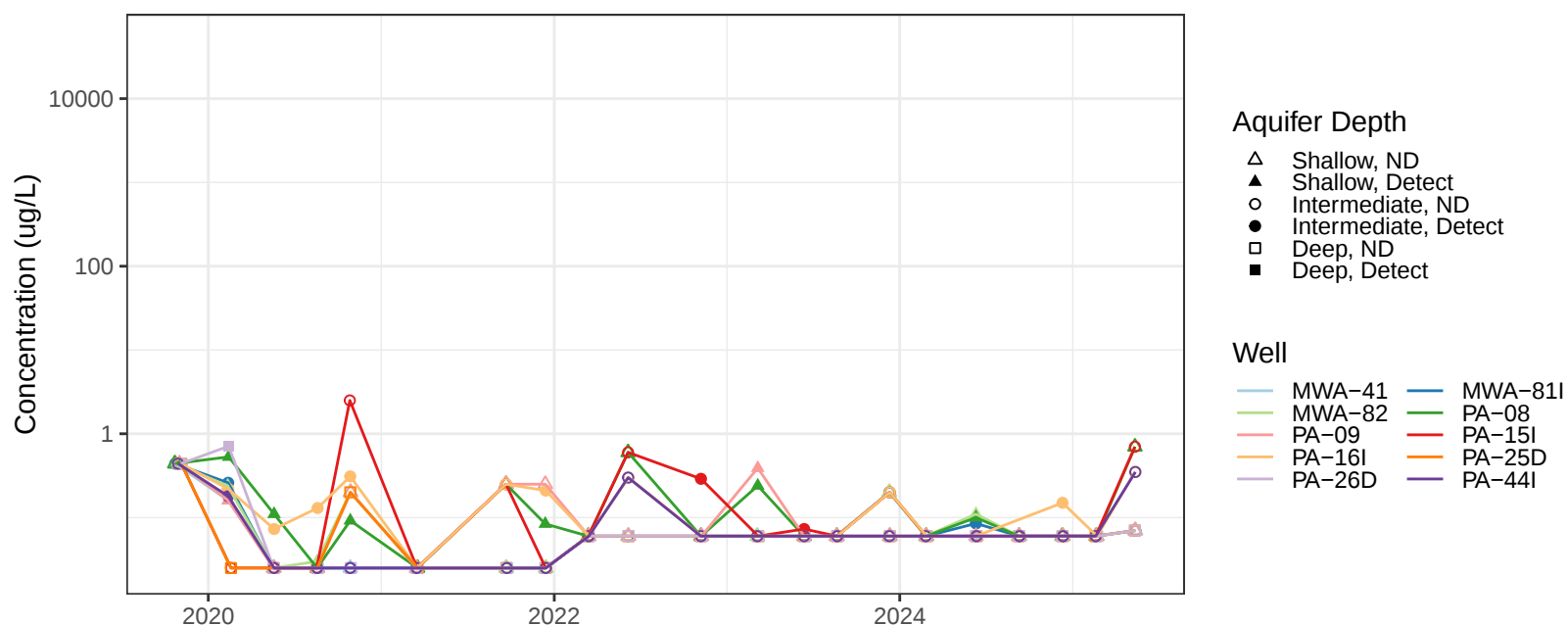
Chlorobenzene in GCC3



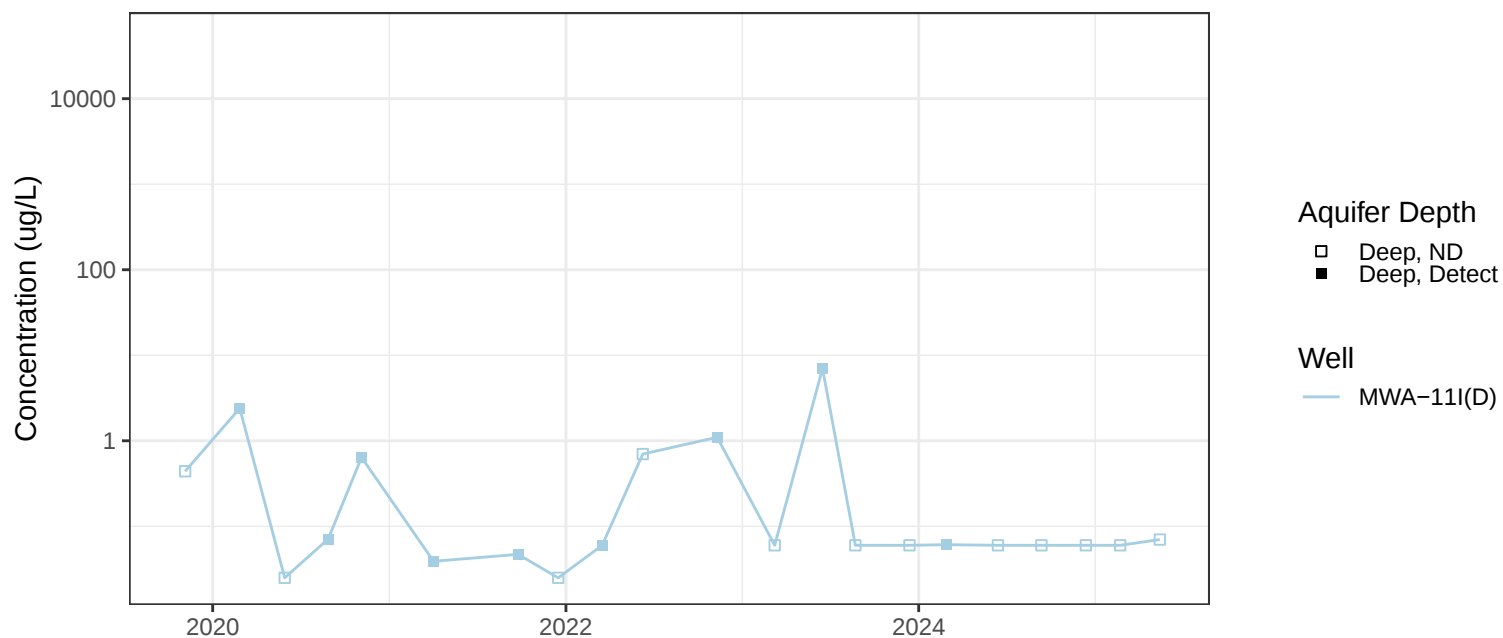
### Chlorobenzene in GCC5 & Proximal Wells



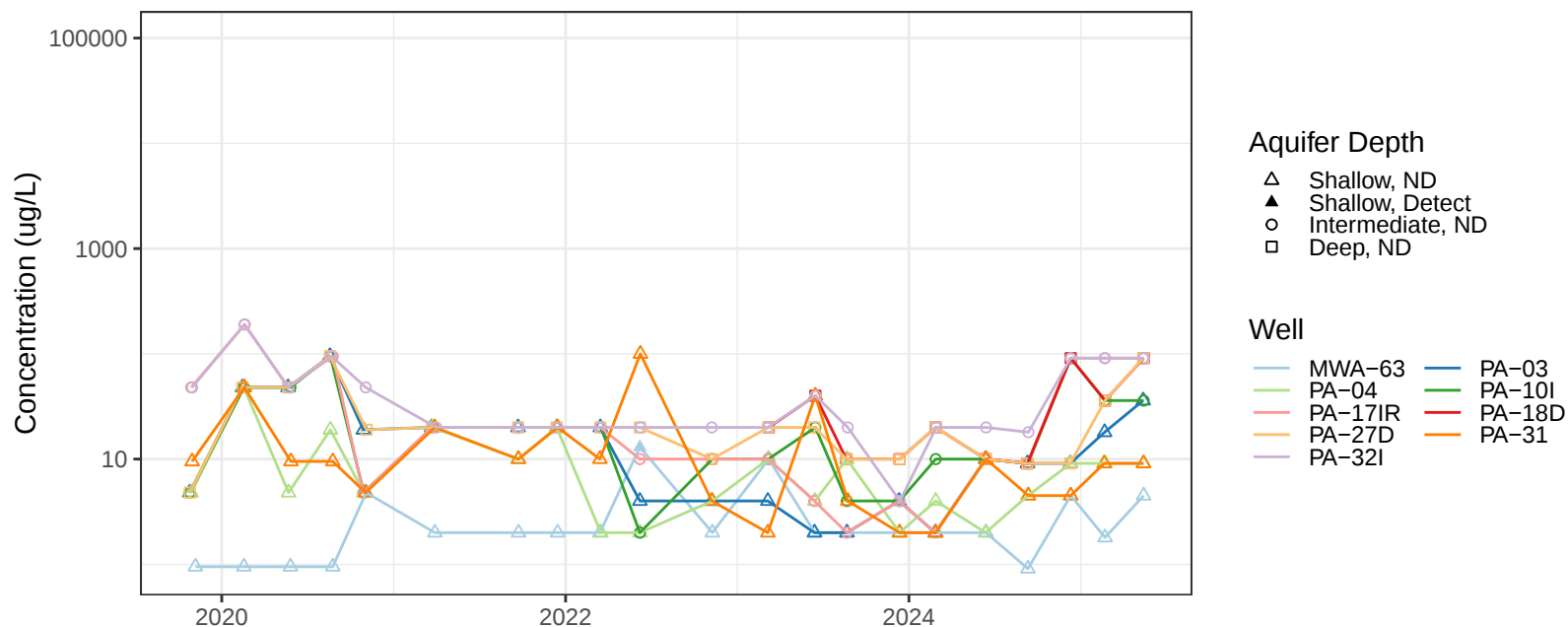
### Chlorobenzene in GCC6 & Proximal Wells



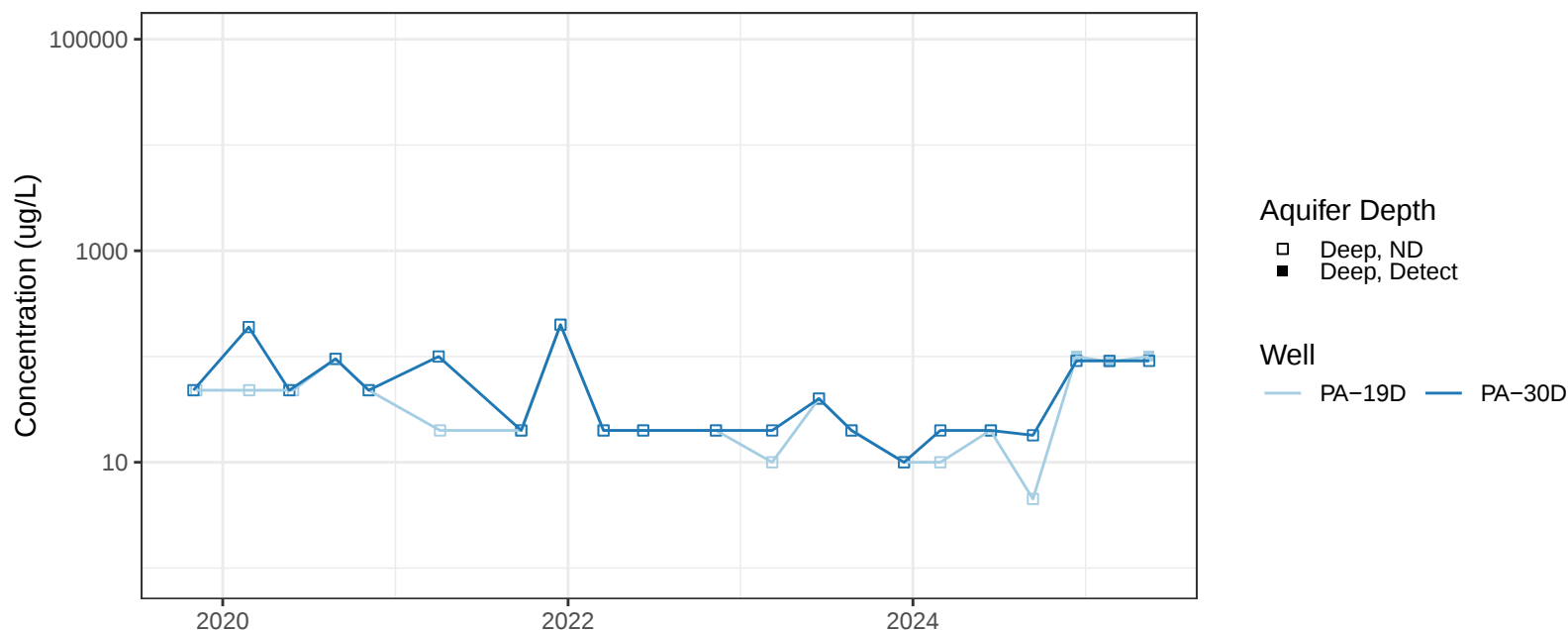
### Chlorobenzene in Well Distal from BW and GCCs



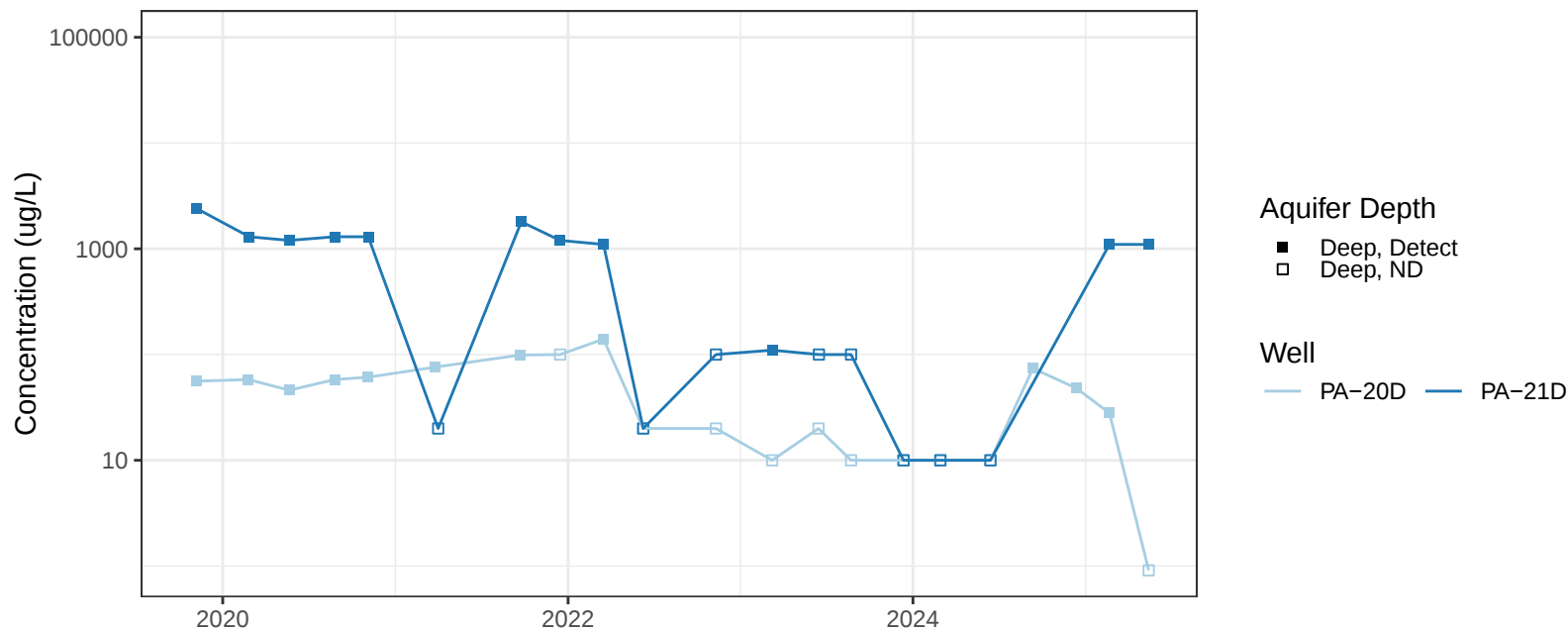
### Perchlorate in GCC1 & Proximal Wells



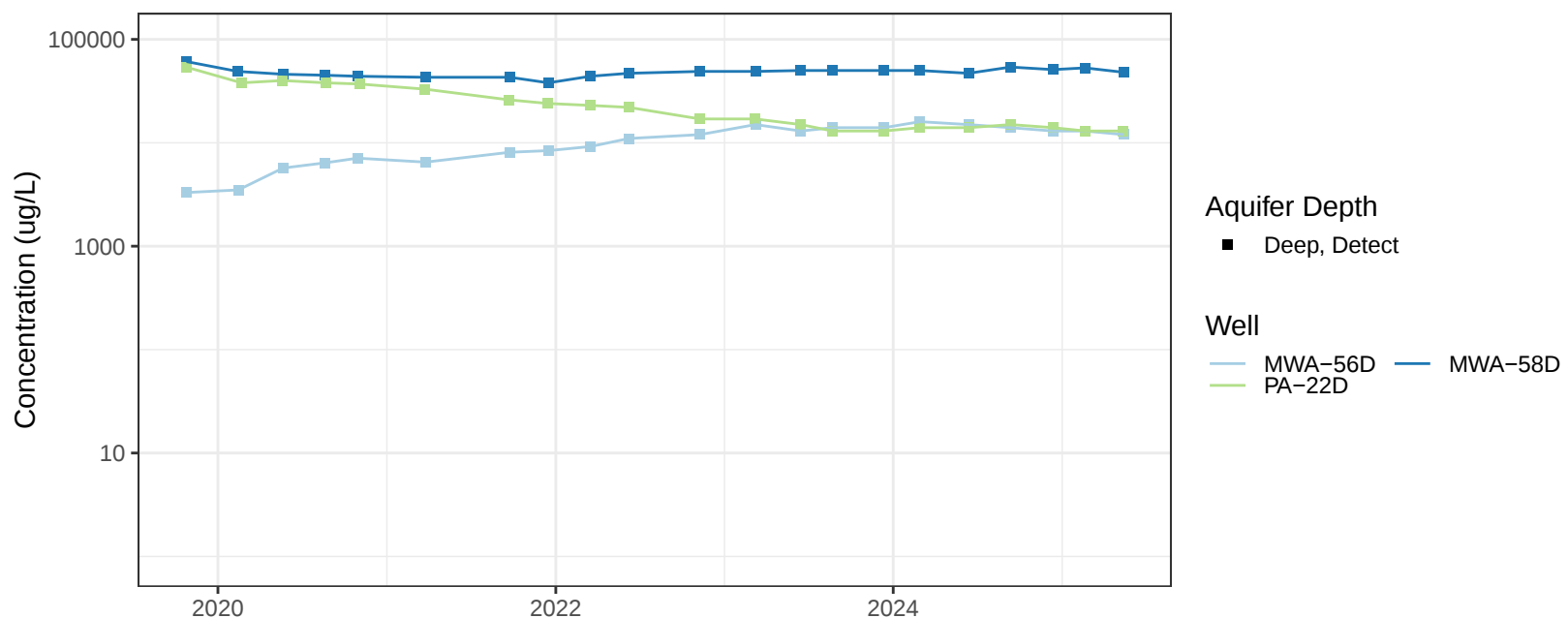
### Perchlorate in GCC2



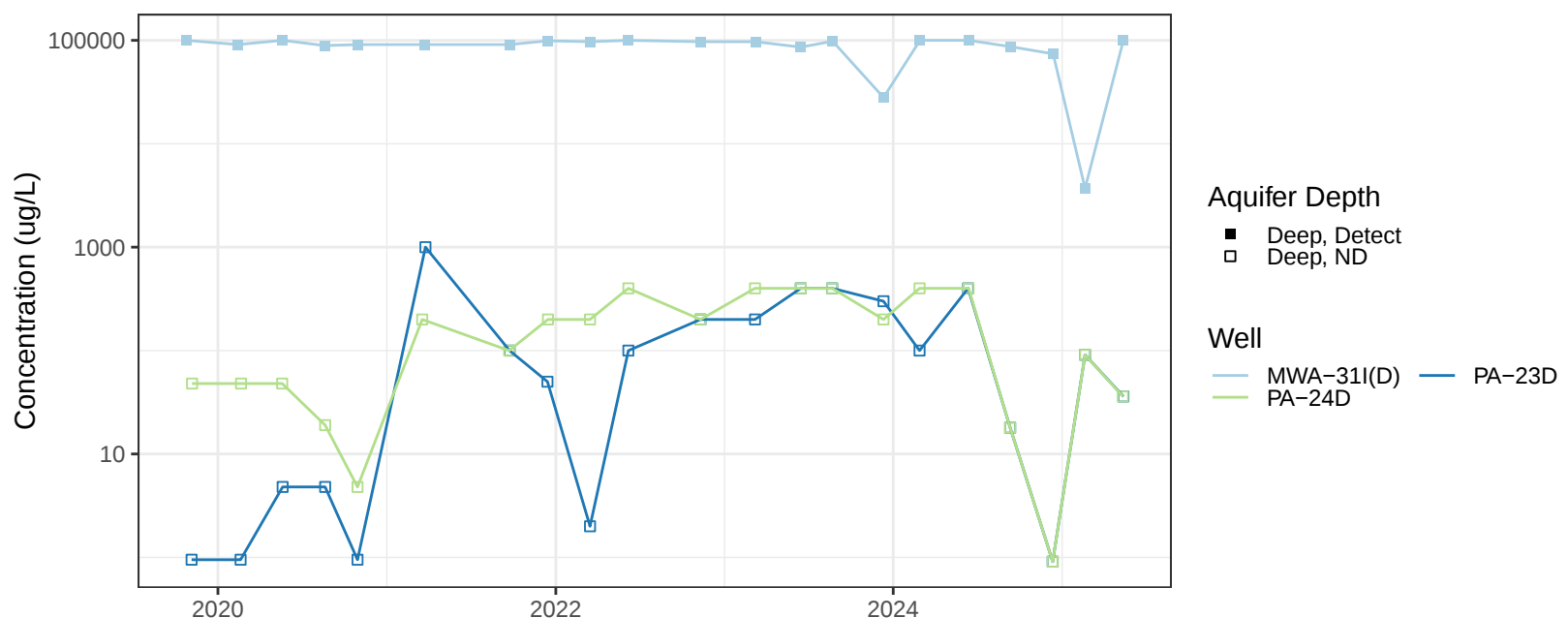
### Perchlorate in GCC3



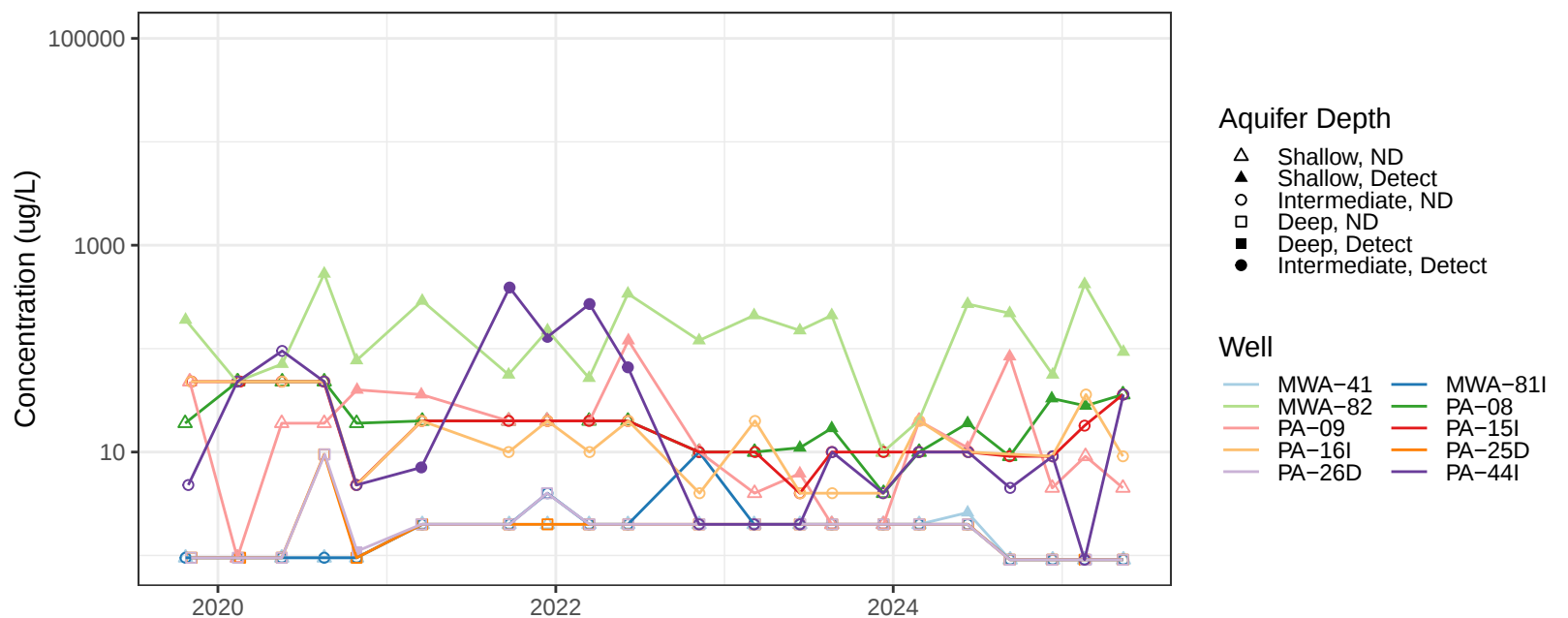
### Perchlorate in GCC4 & Proximal Wells



### Perchlorate in GCC5 & Proximal Wells



### Perchlorate in GCC6 & Proximal Wells





## APPENDIX E      HISTORICAL DATA TABLE

Appendix E  
Historical Data Table  
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| Aquifer | Well ID | Sample ID      | Date       | 2,4'-DDD | 4,4'-DDD   | 2,4'-DDE | 4,4'-DDE    | 2,4'-DDT | 4,4'-DDT    | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride   | Chlorobenzene | Chromium (VI) | Perchlorate |
|---------|---------|----------------|------------|----------|------------|----------|-------------|----------|-------------|-----------------------------------------------|------------|---------------|---------------|-------------|
|         |         |                |            | µg / L   | µg / L     | µg / L   | µg / L      | µg / L   | µg / L      | µg / L                                        | µg / L     | µg / L        | µg / L        | µg / L      |
| Shallow | MWA-2   | GAMWA210297    | 1/2/1997   |          | < 0.1 U    |          | < 0.1 U     |          | 0.12        | 0.12 T                                        |            | < 5 U         |               |             |
| Shallow | MWA-2   | GAMWA210397    | 3/12/1997  |          | < 0.1 UJ   |          | < 0.1 UJ    |          | < 0.1 UJ    | < 0.1 UJT                                     |            | 7             |               |             |
| Shallow | MWA-2   | GAMWA210697    | 6/24/1997  |          | < 0.1 UJ   |          | < 0.1 UJ    |          | < 0.1 UJ    | < 0.1 UJT                                     |            | 6,000         |               |             |
| Shallow | MWA-2   | GAMWA210997    | 9/30/1997  |          | 0.17 J     |          | < 0.1 UJ    |          | < 0.1 UJ    | 0.17 JT                                       |            | 9,000         |               |             |
| Shallow | MWA-2   | GW059801       | 5/28/1998  |          | 0.25 J     |          | < 0.04 U    |          | 0.33 J      | 0.58 JT                                       | 10,400     | 4             |               |             |
| Shallow | MWA-2   | GW019907       | 1/27/1999  |          | 0.32       |          | 0.04        |          | 0.18        | 0.54 T                                        | 41,100 T   | 94            |               |             |
| Shallow | MWA-2   | GW029906       | 4/27/1999  |          | 0.8        |          | < 0.04 U    |          | 0.6         | 1.4 T                                         | 16,800     | 970 J         |               |             |
| Shallow | MWA-2   | GW039907       | 8/24/1999  |          | 0.7        |          | < 0.4 UJ    |          | < 0.4 UJ    | 0.7 T                                         | 33,800     | 4,400         |               |             |
| Shallow | MWA-2   | GW049905       | 11/16/1999 |          | 0.39 J     |          | < 0.04 UJ   |          | < 0.24 U    | 0.39 JT                                       | 41,700     | 2,100         |               |             |
| Shallow | MWA-2   | GW010111       | 3/29/2001  |          | 0.57       |          | < 0.1 U     |          | < 0.1 U     | 0.57 T                                        | 158,000 J  | 4,300         |               |             |
| Shallow | MWA-2   | GW020106       | 6/12/2001  |          | 0.4        |          | 0.055       |          | < 0.05 UJ   | 0.455 T                                       | 384,000    | 4,600         |               |             |
| Shallow | MWA-2   | GW04100205     | 4/10/2002  |          | 0.41       |          | < 0.099 U   |          | < 0.099 U   | 0.41 T                                        | 1,400,000  | 27,000        |               |             |
| Shallow | MWA-2   | GW-060903-01   | 6/9/2003   |          | < 1.70 U   |          | < 1.70 U    |          | < 2.80 U    | < 2.8 UT                                      | 981,000    | 13,700        |               | 1,400       |
| Shallow | MWA-2   | MWA-2-111004   | 11/10/2004 |          | < 0.500 UJ |          | < 0.500 UJ  |          | < 0.500 UJ  | < 0.5 UJT                                     |            | 30,200        |               |             |
| Shallow | MWA-2   | MWA-2-031005   | 3/10/2005  |          | < 2.50 UJ  |          | < 2.50 UJ   |          | < 2.50 UJ   | < 2.5 UJT                                     |            | 15,400        |               |             |
| Shallow | MWA-2   | MWA-2-062205   | 6/22/2005  |          | 3.35       |          | < 0.500 UJ  |          | < 0.500 UJ  | 3.35 T                                        |            | 12,200        |               |             |
| Shallow | MWA-2   | MWA-2-091505   | 9/15/2005  |          | 0.543 J    |          | < 0.184 U   |          | 0.0789 J    | 0.8089 JT                                     |            | 21,900        |               |             |
| Shallow | MWA-2   | MWA-2-102705   | 10/27/2005 |          | 0.477      |          | 0.0965      |          | < 0.236 UJ  | 0.5735 T                                      |            | 23,500        |               |             |
| Shallow | MWA-2   | MWA-2-122005   | 12/20/2005 |          | 0.312      |          | < 0.239 UJ  |          | < 0.239 UJ  | 0.312 T                                       |            | 16,200        |               |             |
| Shallow | MWA-2   | MWA-2-011306   | 1/13/2006  |          | 0.510      |          | < 0.0971 UJ |          | < 0.0971 UJ | 0.51 T                                        |            | 4             |               |             |
| Shallow | MWA-2   | MWA-2-032906   | 3/29/2006  |          | 0.240      |          | < 0.0952 UJ |          | 0.190       | 0.43 T                                        |            | 4,050         |               |             |
| Shallow | MWA-2   | MWA-2-040407   | 4/4/2007   |          | 0.292      |          | < 0.287 U   |          | < 0.191 U   | 0.292 A                                       | 376,000    | 2,570         |               | 73.8        |
| Shallow | MWA-2   | MWA-2-080609   | 8/6/2009   |          | < 0.286 U  |          | < 0.286 U   |          | 0.191       | 0.191 A                                       | 340,000    | 18,200        |               | 3.9         |
| Shallow | MWA-15R | GW010117       | 3/30/2001  |          | 37         |          | < 10 U      |          | 450         | 487 T                                         | 1960,000 J | 260,000       |               |             |
| Shallow | MWA-15R | GW020121       | 6/15/2001  |          | 7.4        |          | < 0.96 U    |          | 73 J        | 80.4 JT                                       | 1,560,000  | 210,000       |               |             |
| Shallow | MWA-15R | GW04160201     | 4/16/2002  |          | 25         |          | 4.2 J       |          | 75 J        | 104 JT                                        | 407,000    | 48,000        |               |             |
| Shallow | MWA-15R | GW-061003-04   | 6/10/2003  |          | 28.4 J     |          | < 3.40 U    |          | 113         | 141 JT                                        | 388,000    | 13,300        |               | 350         |
| Shallow | MWA-15R | MWA-15R-100203 | 10/2/2003  |          |            |          |             |          |             |                                               |            | 27,200        |               |             |
| Shallow | MWA-15R | MWA-15R-111403 | 11/14/2003 |          |            |          |             |          |             |                                               |            | 163,000       |               |             |
| Shallow | MWA-15R | MWA-15R-011304 | 1/13/2004  |          |            |          |             |          |             |                                               |            | 64,400        |               |             |
| Shallow | MWA-15R | MWA-15R-013004 | 1/30/2004  |          |            |          |             |          |             |                                               |            | 24,600        |               |             |
| Shallow | MWA-15R | MWA-15R-030204 | 3/2/2004   |          |            |          |             |          |             |                                               |            | 2,450         |               |             |
| Shallow | MWA-15R | MWA-15R-111004 | 11/10/2004 |          | 27.7       |          | < 5.00 UJ   |          | 86.2        | 113 T                                         |            | 154,000       |               |             |
| Shallow | MWA-15R | MWA-15R-031005 | 3/10/2005  |          | 79.7       |          | < 25.0 UJ   |          | 534         | 613.7 T                                       |            | 97,000        |               |             |
| Shallow | MWA-15R | MWA-15R-062205 | 6/22/2005  |          | 40.9       |          | 9.88        |          | 193         | 243.78 T                                      |            | 87,700        |               |             |
| Shallow | MWA-15R | MWA-15R-091605 | 9/16/2005  |          | 73.2       |          | 11.2 J      |          | 619 J       | 703 JT                                        |            | 240,000       |               |             |
| Shallow | MWA-15R | MWA-15R-122105 | 12/21/2005 |          | 10.1       |          | 1.53        |          | 86.5        | 98.13 T                                       |            | 217,000       |               |             |
| Shallow | MWA-15R | MWA-15R-033006 | 3/30/2006  |          | 124        |          | 24          |          | 458         | 606 T                                         |            | 72,900        |               |             |
| Shallow | MWA-15R | MWA-15R-041707 | 4/17/2007  |          | 48.3 J     |          | 7.71        |          | 207         | 263 JA                                        | 129,000    | 34            |               |             |
| Shallow | MWA-15R | MWA-15R-081909 | 8/19/2009  |          | 111        |          | 21.9        |          | 702         | 835 A                                         | 156,000    | 23,500        | < 25 UJ       |             |
| Shallow | MWA-15R | MWA-15R-090309 | 9/3/2009   |          | 377        |          | 52.1        |          | 5,210       | 5,640 A                                       |            |               |               |             |
| Shallow | MWA-18  | GW010105       | 3/27/2001  |          |            |          |             |          | 0.046 J     | 0.046 JT                                      | 1,200,000  | 41            |               |             |
| Shallow | MWA-18  | GW020110       | 6/13/2001  |          | 0.015 J    |          | < 0.0094 U  |          | < 0.026 U   | 0.015 JT                                      | 894,000 J  | 34            | < 50 UJ       |             |
| Shallow | MWA-18  | GW04040203     | 4/4/2002   |          | < 0.0096 U |          | < 0.0096 U  |          | < 0.019 U   | < 0.019 UT                                    | 2,210,000  | 8             |               |             |
| Shallow | MWA-18  | GW-060603-03   | 6/6/2003   |          | < 0.0170 U |          | < 0.0170 U  |          | < 0.0280 U  | < 0.028 UT                                    | 1,410,000  | < 3.06 U      |               | < 25 U      |
| Shallow | MWA-18  | MWA-18-050505  | 5/5/2005   |          |            |          |             |          |             |                                               | 612,000    |               | 833           |             |
| Shallow | MWA-18  | MWA-18-071405  | 7/14/2005  |          |            |          |             |          |             |                                               |            | 676           |               |             |
| Shallow | MWA-18  | MWA-18         | 8/3/2005   |          | < 0.0500 U |          | < 0.0500 U  |          | < 0.0500 U  | < 0.05 UT                                     |            | 0.580         |               |             |
| Shallow | MWA-18  | MWA-18-081605  | 8/16/2005  |          |            |          |             |          |             |                                               |            |               | 248           |             |
| Shallow | MWA-18  | MWA-18-091205  | 9/12/2005  |          |            |          |             |          |             |                                               | 410,000    |               | 1,180         | 3.4         |
| Shallow | MWA-18  | MWA-18-120805  | 12/8/2005  |          |            |          |             |          |             |                                               |            |               | 5.90 J        |             |
| Shallow | MWA-18  | MWA-18-011006  | 1/10/2006  |          |            |          |             |          |             |                                               |            |               | 30.0          |             |
| Shallow | MWA-18  | MWA-18-021306  | 2/13/2006  |          |            |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Shallow | MWA-18  | MWA-18-072606  | 7/26/2006  |          |            |          |             |          |             |                                               |            |               | 3.4           |             |
| Shallow | MWA-18  | MWA-18-041107  | 4/11/2007  |          | < 0.0971 U |          | < 0.0971 U  |          | < 0.0971 U  | < 0.0971 UA                                   | 233,000    | 1.33          | 2.2 J         | < 8.0 U     |

Appendix E  
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| Aquifer | Well ID | Sample ID     | Date       | 2,4'-DDD  | 4,4'-DDD    | 2,4'-DDE  | 4,4'-DDE    | 2,4'-DDT  | 4,4'-DDT    | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride     | Chlorobenzene | Chromium (VI) | Perchlorate |
|---------|---------|---------------|------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------------------------------------------|--------------|---------------|---------------|-------------|
|         |         |               |            | µg/L      | µg/L        | µg/L      | µg/L        | µg/L      | µg/L        | µg/L                                          | µg/L         | µg/L          | µg/L          | µg/L        |
| Shallow | MWA-18  | MWA-18-081009 | 8/10/2009  |           | 0.0155      |           | 0.00671 J   |           | 0.00789 J   | 0.0301 JA                                     | 270,000      | 0.930 J       | 340 J         | < 4 U       |
| Shallow | MWA-19  | GW010104      | 3/27/2001  |           | < 0.02 UJ   |           | < 0.02 UJ   |           | 0.095 J     | 0.095 JT                                      | 5,540,000    | < 0.5 U       |               |             |
| Shallow | MWA-19  | GW020112      | 6/13/2001  |           | < 0.0099 U  |           | < 0.0099 U  |           | < 0.016 U   | < 0.016 UT                                    | 12,700,000 J | < 0.5 U       | < 50 UJ       |             |
| Shallow | MWA-19  | GW04040204    | 4/4/2002   |           | < 0.0097 U  |           | < 0.0097 U  |           | 0.1         | 0.1 T                                         | 13,100,000   | < 0.5 U       |               |             |
| Shallow | MWA-19  | GW-060603-04  | 6/6/2003   |           | 0.0935      |           | < 0.0170 U  |           | 0.23        | 0.324 T                                       | 5,180,000    | < 0.64 U      |               | < 82 U      |
| Shallow | MWA-19  | MWA-19-050605 | 5/6/2005   |           |             |           |             |           |             |                                               | 2,100,000    |               | 2,680         |             |
| Shallow | MWA-19  | MWA-19-071305 | 7/13/2005  |           |             |           |             |           |             |                                               |              |               | 159           |             |
| Shallow | MWA-19  | MWA-19        | 8/3/2005   |           | 0.114       |           | < 0.0500 U  |           | 0.576       | 0.69 T                                        |              | 3.14          |               |             |
| Shallow | MWA-19  | MWA-19-081705 | 8/17/2005  |           |             |           |             |           |             |                                               |              |               | 407           |             |
| Shallow | MWA-19  | MWA-19-091305 | 9/13/2005  |           |             |           |             |           |             |                                               | 1,240,000    |               | 824           | < 1 U       |
| Shallow | MWA-19  | MWA-19-120805 | 12/8/2005  |           |             |           |             |           |             |                                               |              |               | 101           |             |
| Shallow | MWA-19  | MWA-19-010906 | 1/9/2006   |           |             |           |             |           |             |                                               |              |               | 33.2          |             |
| Shallow | MWA-19  | MWA-19-021006 | 2/10/2006  |           |             |           |             |           |             |                                               |              |               | 12.1          |             |
| Shallow | MWA-19  | MWA-19-072606 | 7/26/2006  |           |             |           |             |           |             |                                               |              |               | 56.8          |             |
| Shallow | MWA-19  | MWA-19-040907 | 4/9/2007   |           | 0.0743 J    |           | < 0.0966 U  |           | 0.242       | 0.316 JA                                      | 737,000      | 1.79          | 11.3          | < 80.0 U    |
| Shallow | MWA-19  | MWA-19-081009 | 8/10/2009  |           | 0.183 J     |           | 0.175 J     |           | 1.14        | 1.5 JA                                        | 406,000      | 0.390 J       | 500 J         | < 40 U      |
| Shallow | MWA-20  | GW010103      | 3/27/2001  |           |             |           |             |           | 0.088 J     | 0.088 JT                                      | 2,810,000 T  | 2,700         |               |             |
| Shallow | MWA-20  | GW020114      | 6/13/2001  |           |             |           |             |           | 0.052 J     | 0.052 JT                                      | 1,780,000 J  | 1,100         | 59.5          |             |
| Shallow | MWA-20  | GW04090204    | 4/9/2002   |           |             |           |             |           |             |                                               | 1,135,000 T  | 1,900         |               |             |
| Shallow | MWA-20  | GW-060503-03  | 6/5/2003   |           | 0.0688 J    |           |             |           | 0.213 J     | 0.282 JT                                      | 1,500,000    | 215           |               |             |
| Shallow | MWA-20  | MWA-20-050905 | 5/9/2005   |           |             |           |             |           |             |                                               |              |               | 436           |             |
| Shallow | MWA-20  | MWA-20-071305 | 7/13/2005  |           |             |           |             |           |             |                                               |              |               | 74.1          |             |
| Shallow | MWA-20  | MWA-20        | 8/4/2005   |           | < 0.0500 U  |           | < 0.0500 U  |           | < 0.0500 U  | < 0.05 UT                                     |              | 1,540         |               |             |
| Shallow | MWA-20  | MWA-20-081505 | 8/15/2005  |           |             |           |             |           |             |                                               |              |               | 676           |             |
| Shallow | MWA-20  | MWA-20-090705 | 9/7/2005   |           |             |           |             |           |             |                                               |              |               | 573           |             |
| Shallow | MWA-20  | MWA-20-121205 | 12/12/2005 |           |             |           |             |           |             |                                               |              |               | 9.67 J        |             |
| Shallow | MWA-20  | MWA-20-011006 | 1/10/2006  |           |             |           |             |           |             |                                               |              |               | 52.5          |             |
| Shallow | MWA-20  | MWA-20-020906 | 2/9/2006   |           |             |           |             |           |             |                                               |              |               | 43.8          |             |
| Shallow | MWA-20  | MWA-20-072506 | 7/25/2006  |           |             |           |             |           |             |                                               |              |               | 14.36 J       |             |
| Shallow | MWA-20  | MWA-20-041107 | 4/11/2007  |           | < 0.0485 U  |           | < 0.0485 U  |           | 0.0692 J    | 0.0692 J                                      | 583,000      | 1,500 J       | 8.6           | < 33.9 U    |
| Shallow | MWA-20  | MWA-20-081709 | 8/17/2009  |           | < 0.00952 U |           | < 0.00952 U |           | 0.00836 J   | 0.00836 JA                                    | 164,000      | 1,780         | 67 J          | < 40 U      |
| Shallow | MWA-22  | GW020122      | 6/15/2001  |           | 0.83        |           | < 0.096 U   |           | 0.15        | 0.98 T                                        | 4,870,000    | 38            |               |             |
| Shallow | MWA-22  | GW04110203    | 4/11/2002  |           | < 0.099 U   |           | < 0.099 U   |           | < 0.099 U   | < 0.099 UT                                    | 5,430,000    | 310           |               |             |
| Shallow | MWA-22  | GW-061003-02  | 6/10/2003  |           | < 0.13 U    |           | < 0.0170 UJ |           | < 0.348 U   | < 0.348 UT                                    | 6,210,000    | 128           |               |             |
| Shallow | MWA-22  | MWA-22        | 8/1/2005   |           | 0.115       |           | < 0.0500 U  |           | 1.29        | 1.405 T                                       |              | 6,460         |               |             |
| Shallow | MWA-22  | MWA-22-041607 | 4/16/2007  |           | 0.133       |           | < 0.0976 U  |           | < 0.0976 U  | 0.133 A                                       | 4,200,000    | 538           | 103           |             |
| Shallow | MWA-22  | MWA-22-081909 | 8/19/2009  |           | < 0.144 U   |           | < 0.0962 U  |           | < 0.0962 U  | < 0.144 UA                                    | 2,870,000    | 123           | 48 J          | < 40 U      |
| Shallow | MWA-22  | MWA-22-022119 | 2/21/2019  | < 0.10 UJ | 0.026 J-    | < 0.10 UJ | 0.0060 J-   | < 0.10 UJ | < 0.010 UJ  | 0.032                                         |              | 3,400         | < 13 UJ       | < 48        |
| Shallow | MWA-24  | GW11150102    | 11/15/2001 |           |             |           |             |           |             |                                               |              | < 2.5 U       |               |             |
| Shallow | MWA-24  | GW04080201    | 4/8/2002   |           |             |           |             |           |             |                                               | 408,000      |               |               |             |
| Shallow | MWA-24  | GW-060503-04  | 6/5/2003   |           | < 0.232 U   |           | < 0.0340 U  |           | < 0.0560 U  | < 0.232 UT                                    | 583,000      |               |               |             |
| Shallow | MWA-24  | MWA-24-050505 | 5/5/2005   |           |             |           |             |           |             |                                               | 529,000      |               | 52.8 J        |             |
| Shallow | MWA-24  | MWA-24-071205 | 7/12/2005  |           |             |           |             |           |             |                                               |              |               | 54.1 J        |             |
| Shallow | MWA-24  | MWA-24-081105 | 8/11/2005  |           |             |           |             |           |             |                                               |              |               | 35.5          |             |
| Shallow | MWA-24  | MWA-24-090705 | 9/7/2005   |           |             |           |             |           |             |                                               |              |               | 20.3          |             |
| Shallow | MWA-24  | MWA-24-091405 | 9/14/2005  |           |             |           |             |           |             |                                               |              |               |               | 30          |
| Shallow | MWA-24  | MWA-24-120705 | 12/7/2005  |           |             |           |             |           |             |                                               |              |               | 63.5          |             |
| Shallow | MWA-24  | MWA-24-011106 | 1/11/2006  |           |             |           |             |           |             |                                               |              |               | 31.9          |             |
| Shallow | MWA-24  | MWA-24-020806 | 2/8/2006   |           |             |           |             |           |             |                                               |              |               | 30.6          |             |
| Shallow | MWA-24  | MWA-24-072506 | 7/25/2006  |           |             |           |             |           |             |                                               |              |               | 24            |             |
| Shallow | MWA-24  | MWA-24-040307 | 4/3/2007   |           |             |           |             |           |             |                                               | 274,000      | 1.90 J        | 76.2          | 258 J       |
| Shallow | MWA-24  | MWA-24-080509 | 8/5/2009   |           |             |           |             |           |             |                                               | 237,000      | < 0.500 U     | 86 J          | 17.9        |
| Shallow | MWA-29  | GW04080204    | 4/8/2002   |           | < 0.0096 U  |           | < 0.0096 U  |           | < 0.0096 U  | < 0.0096 UT                                   | 21,900,000   | < 0.5 U       |               |             |
| Shallow | MWA-29  | GW-060403-06  | 6/4/2003   |           | < 0.0170 UJ |           | < 0.0170 UJ |           | < 0.0280 UJ | < 0.028 UJT                                   | 11,700,000   |               |               | < 110 U     |
| Shallow | MWA-29  | MWA-29-050905 | 5/9/2005   |           |             |           |             |           |             |                                               | 9,100,000    |               | 14.1          |             |

Appendix E  
Historical Data Table  
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| Aquifer | Well ID | Sample ID     | Date      | 2,4'-DDD | 4,4'-DDD    | 2,4'-DDE | 4,4'-DDE    | 2,4'-DDT | 4,4'-DDT    | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride    | Chlorobenzene | Chromium (VI) | Perchlorate |
|---------|---------|---------------|-----------|----------|-------------|----------|-------------|----------|-------------|-----------------------------------------------|-------------|---------------|---------------|-------------|
|         |         |               |           | µg / L   | µg / L      | µg / L   | µg / L      | µg / L   | µg / L      | µg / L                                        | µg / L      | µg / L        | µg / L        | µg / L      |
| Shallow | MWA-29  | MWA-29-071805 | 7/18/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-29  | MWA-29-081205 | 8/12/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-29  | MWA-29-091205 | 9/12/2005 |          |             |          |             |          |             |                                               | 12,600,000  |               | 107           | 4,800       |
| Shallow | MWA-29  | MWA-29-120805 | 12/8/2005 |          |             |          |             |          |             |                                               |             |               | 186           |             |
| Shallow | MWA-29  | MWA-29-010606 | 1/6/2006  |          |             |          |             |          |             |                                               |             |               | 14.1          |             |
| Shallow | MWA-29  | MWA-29-020806 | 2/8/2006  |          |             |          |             |          |             |                                               |             |               | 19.5          |             |
| Shallow | MWA-29  | MWA-29-072406 | 7/24/2006 |          |             |          |             |          |             |                                               |             |               | < 20 U        |             |
| Shallow | MWA-29  | MWA-29-041607 | 4/16/2007 |          | < 0.0966 U  |          | < 0.0966 U  |          | < 0.0966 U  | < 0.0966 UA                                   | 9,710,000   |               | < 20 UJ       | 243         |
| Shallow | MWA-29  | MWA-29-080609 | 8/6/2009  |          | < 0.00952 U |          | < 0.00952 U |          | < 0.00952 U | < 0.00952 UA                                  | 3,750,000   |               | < 25 UJ       | < 20 U      |
| Shallow | MWA-30  | GW04120203    | 4/12/2002 |          | 0.18        |          | 0.021 J     |          | 0.012       | 0.213 JT                                      | 179,000,000 | < 0.5 U       |               |             |
| Shallow | MWA-30  | GW-060403-08  | 6/4/2003  |          | < 0.0170 UJ |          | < 0.0170 UJ |          | < 0.0280 UJ | < 0.028 UJT                                   | 164,000,000 |               |               | 7,900       |
| Shallow | MWA-30  | MWA-30-050605 | 5/6/2005  |          |             |          |             |          |             |                                               | 104,000,000 |               | 3,040         |             |
| Shallow | MWA-30  | MWA-30-051005 | 5/10/2005 |          |             |          |             |          |             |                                               |             |               |               | 621         |
| Shallow | MWA-30  | MWA-30-071805 | 7/18/2005 |          |             |          |             |          |             |                                               |             |               | 13.0          |             |
| Shallow | MWA-30  | MWA-30        | 8/3/2005  |          | < 0.0500 U  |          | < 0.0500 U  |          | < 0.0500 U  | < 0.05 UT                                     |             | < 0.136 U     |               |             |
| Shallow | MWA-30  | MWA-30-081705 | 8/17/2005 |          |             |          |             |          |             |                                               |             |               | 6,270         |             |
| Shallow | MWA-30  | MWA-30-010606 | 1/6/2006  |          |             |          |             |          |             |                                               |             |               | 32.8          |             |
| Shallow | MWA-30  | MWA-30-021006 | 2/10/2006 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-30  | MWA-30-072606 | 7/26/2006 |          |             |          |             |          |             |                                               |             |               | < 2 U         |             |
| Shallow | MWA-30  | MWA-30-040507 | 4/5/2007  |          | < 0.0962 U  |          | < 0.0962 U  |          | < 0.0962 U  | < 0.0962 UA                                   | 39,400,000  | 0.900         | 8.5 J         | < 80.0 U    |
| Shallow | MWA-30  | MWA-30-081009 | 8/10/2009 |          | 0.148       |          | < 0.00943 U |          | < 0.00943 U | 0.148 A                                       | 12,900,000  | < 2.00 UJ     | 1,100 J       | < 80 U      |
| Shallow | MWA-33  | GW-060503-05  | 6/5/2003  |          |             |          |             |          |             |                                               | 198,000     | < 2.51 U      |               | 540         |
| Shallow | MWA-33  | GW-061103-02  | 6/11/2003 |          | < 0.0170 UJ |          | < 0.0170 UJ |          | < 0.518 U   | < 0.518 UT                                    | 286,000     |               |               | 320         |
| Shallow | MWA-33  | MWA-33-050505 | 5/5/2005  |          |             |          |             |          |             |                                               |             |               | 44.6          |             |
| Shallow | MWA-33  | MWA-33-071405 | 7/14/2005 |          |             |          |             |          |             |                                               |             |               | 51.8          |             |
| Shallow | MWA-33  | MWA-33-081105 | 8/11/2005 |          |             |          |             |          |             |                                               |             |               | 36.2          |             |
| Shallow | MWA-33  | MWA-33-090705 | 9/7/2005  |          |             |          |             |          |             |                                               |             |               | 30.2          |             |
| Shallow | MWA-33  | MWA-33-091405 | 9/14/2005 |          |             |          |             |          |             |                                               |             |               |               | 1,500       |
| Shallow | MWA-33  | MWA-33-120805 | 12/8/2005 |          |             |          |             |          |             |                                               |             |               | 17.7          |             |
| Shallow | MWA-33  | MWA-33-011106 | 1/11/2006 |          |             |          |             |          |             |                                               |             |               | 8.74 J        |             |
| Shallow | MWA-33  | MWA-33-020806 | 2/8/2006  |          |             |          |             |          |             |                                               |             |               | 14.8          |             |
| Shallow | MWA-33  | MWA-33-072406 | 7/24/2006 |          |             |          |             |          |             |                                               |             |               | 11 J          |             |
| Shallow | MWA-33  | MWA-33-040307 | 4/3/2007  |          | 0.0688 J    |          | 0.106       |          | 0.0892 J    | 0.264 JA                                      | 336,000     |               | 11.9          | < 20.0 U    |
| Shallow | MWA-33  | MWA-33-080509 | 8/5/2009  |          | < 0.0952 U  |          | < 0.0952 U  |          | < 0.0952 U  | < 0.0952 UA                                   | 929,000     |               | 14 J          | < 8 U       |
| Shallow | MWA-40  | MWA-40-050505 | 5/5/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-071205 | 7/12/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-081105 | 8/11/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-090705 | 9/7/2005  |          |             |          |             |          |             |                                               |             |               | 4.76 J        |             |
| Shallow | MWA-40  | MWA-40-120705 | 12/7/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-011106 | 1/11/2006 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-020806 | 2/8/2006  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-40  | MWA-40-072406 | 7/24/2006 |          |             |          |             |          |             |                                               |             |               | 9.5 J         |             |
| Shallow | MWA-40  | MWA-40-040307 | 4/3/2007  |          |             |          |             |          |             |                                               | 294,000     |               | 21.7          | < 400 U     |
| Shallow | MWA-40  | MWA-40-080509 | 8/5/2009  |          |             |          |             |          |             |                                               | 220,000     |               | 42 J          | < 20 U      |
| Shallow | MWA-41  | MWA-41-050905 | 5/9/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-071505 | 7/15/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-081205 | 8/12/2005 |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-090705 | 9/7/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-120805 | 12/8/2005 |          |             |          |             |          |             |                                               |             |               | 0.600 J       |             |
| Shallow | MWA-41  | MWA-41-010506 | 1/5/2006  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-020806 | 2/8/2006  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Shallow | MWA-41  | MWA-41-072406 | 7/24/2006 |          |             |          |             |          |             |                                               |             |               | 15.1 J        |             |
| Shallow | MWA-41  | MWA-41-041607 | 4/16/2007 |          |             |          |             |          |             |                                               | 26,600      |               | < 0.6 U       | 1.7 J       |
| Shallow | MWA-41  | MWA-41-080609 | 8/6/2009  |          |             |          |             |          |             |                                               | 26,300      |               | < 25 UJ       | < 4 U       |
| Shallow | MWA-42  | MWA-42-050505 | 5/5/2005  |          |             |          |             |          |             |                                               |             |               | 56.2          |             |

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| Aquifer      | Well ID | Sample ID     | Date       | 2,4'-DDD | 4,4'-DDD     | 2,4'-DDE | 4,4'-DDE     | 2,4'-DDT | 4,4'-DDT   | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride  | Chlorobenzene | Chromium (VI) | Perchlorate |
|--------------|---------|---------------|------------|----------|--------------|----------|--------------|----------|------------|-----------------------------------------------|-----------|---------------|---------------|-------------|
|              |         |               |            | µg / L   | µg / L       | µg / L   | µg / L       | µg / L   | µg / L     | µg / L                                        | µg / L    | µg / L        | µg / L        | µg / L      |
| Shallow      | MWA-42  | MWA-42-071205 | 7/12/2005  |          |              |          |              |          |            |                                               |           |               | < 4.55 U      |             |
| Shallow      | MWA-42  | MWA-42        | 8/2/2005   |          | < 0.250 UJ   |          | < 0.250 UJ   |          | < 0.250 UJ | < 0.25 UJT                                    |           | 94.0          |               |             |
| Shallow      | MWA-42  | MWA-42-081505 | 8/15/2005  |          |              |          |              |          |            |                                               |           |               | 11.9          |             |
| Shallow      | MWA-42  | MWA-42-090805 | 9/8/2005   |          |              |          |              |          |            |                                               | 913,000   |               |               |             |
| Shallow      | MWA-42  | MWA-42-092305 | 9/23/2005  |          |              |          |              |          |            |                                               |           |               | 46.7          |             |
| Shallow      | MWA-42  | MWA-42-120705 | 12/7/2005  |          |              |          |              |          |            |                                               |           |               | 27.7          |             |
| Shallow      | MWA-42  | MWA-42-011106 | 1/11/2006  |          |              |          |              |          |            |                                               |           |               | 5.77 J        |             |
| Shallow      | MWA-42  | MWA-42-020906 | 2/9/2006   |          |              |          |              |          |            |                                               |           |               | 6.26 J        |             |
| Shallow      | MWA-42  | MWA-42-072506 | 7/25/2006  |          |              |          |              |          |            |                                               |           |               | 8.6 J         |             |
| Shallow      | MWA-42  | MWA-42-040307 | 4/3/2007   |          | 0.101        |          | 0.197        |          | 0.111      | 0.409 A                                       | 45,000    | 3.35          | 7.4           | < 80.0 U    |
| Shallow      | MWA-42  | MWA-42-081709 | 8/17/2009  |          | 0.104        |          | 0.152        |          | < 0.0952 U | 0.256 A                                       | 816,000   | 129           | < 25 UJ       | < 40 U      |
| Shallow      | MWA-46  | MWA-46-050605 | 5/6/2005   |          |              |          |              |          |            |                                               |           |               | 49.5 J        |             |
| Shallow      | MWA-46  | MWA-46-071405 | 7/14/2005  |          |              |          |              |          |            |                                               |           |               | 41.1          |             |
| Shallow      | MWA-46  | MWA-46        | 8/4/2005   |          | < 0.0500 U   |          | < 0.0500 U   |          | 0.611 J    | 0.611 JT                                      |           | 40.2          |               |             |
| Shallow      | MWA-46  | MWA-46-081605 | 8/16/2005  |          |              |          |              |          |            |                                               |           |               | 20.3          |             |
| Shallow      | MWA-46  | MWA-46-091305 | 9/13/2005  |          |              |          |              |          |            |                                               | 1,250,000 |               | 43.3          | < 1 U       |
| Shallow      | MWA-46  | MWA-46-120905 | 12/9/2005  |          |              |          |              |          |            |                                               |           |               | 16.7          |             |
| Shallow      | MWA-46  | MWA-46-010906 | 1/9/2006   |          |              |          |              |          |            |                                               |           |               | < 4.55 U      |             |
| Shallow      | MWA-46  | MWA-46-021306 | 2/13/2006  |          |              |          |              |          |            |                                               |           |               | 5.14 J        |             |
| Shallow      | MWA-46  | MWA-46-072606 | 7/26/2006  |          |              |          |              |          |            |                                               |           |               | 35.4          |             |
| Shallow      | MWA-46  | MWA-46-041107 | 4/11/2007  |          | < 0.0980 U   |          | < 0.0980 U   |          | 0.323      | 0.323 A                                       | 1,820,000 | 938           | 22            | < 80.0 U    |
| Shallow      | MWA-46  | MWA-46-081009 | 8/10/2009  |          | 0.429        |          | 0.176 J      |          | 0.728      | 1.33 JA                                       | 651,000   | 1.54          | < 250 UJ      | < 40 U      |
| Shallow      | MWA-47  | MWA-47-050605 | 5/6/2005   |          |              |          |              |          |            |                                               |           |               | < 4.55 U      |             |
| Shallow      | MWA-47  | MWA-47-071905 | 7/19/2005  |          |              |          |              |          |            |                                               |           |               | < 40.0 UJ     |             |
| Shallow      | MWA-47  | MWA-47-081705 | 8/17/2005  |          |              |          |              |          |            |                                               |           |               | 4.63 J        |             |
| Shallow      | MWA-47  | MWA-47-090905 | 9/9/2005   |          |              |          |              |          |            |                                               | 9,690,000 |               | < 4.55 U      | 66,000      |
| Shallow      | MWA-47  | MWA-47-121205 | 12/12/2005 |          |              |          |              |          |            |                                               |           |               | < 4.55 U      |             |
| Shallow      | MWA-47  | MWA-47-010606 | 1/6/2006   |          |              |          |              |          |            |                                               |           |               | 14.3          |             |
| Shallow      | MWA-47  | MWA-47-021006 | 2/10/2006  |          |              |          |              |          |            |                                               |           |               | < 4.55 U      |             |
| Shallow      | MWA-47  | MWA-47-072606 | 7/26/2006  |          |              |          |              |          |            |                                               |           |               | < 2 U         |             |
| Shallow      | MWA-47  | MWA-47-040507 | 4/5/2007   |          | 0.265        |          | 0.0489 J     |          | 0.152      | 0.466 JA                                      | 3,690,000 | 0.540         | < 20 UJ       | 82.3        |
| Shallow      | MWA-47  | MWA-47-080609 | 8/6/2009   |          | 0.200        |          | 0.0353 J     |          | 0.0931 J   | 0.328 JA                                      | 2,110,000 | 0.880 J       | 110 J         | < 20 U      |
| Shallow      | MWA-47  | MWA-47-022119 | 2/21/2019  | 0.040 j  | 0.067        | < 0.10   | < 0.0050     | < 0.10   | 0.041      | 0.148                                         |           | 33            | 1.1           | 3.9 j       |
| Shallow      | MWA-61  | MWA-61        | 8/1/2005   |          | < 2.50 UJ    |          | < 2.50 UJ    |          | < 2.50 UJ  | < 2.5 UJT                                     |           | 5,800         |               |             |
| Shallow      | MWA-61  | MWA-61-102605 | 10/26/2005 |          | 0.109        |          | < 0.236 UJ   |          | 0.129      | 0.238 T                                       |           | 2,100         |               |             |
| Shallow      | MWA-61  | MWA-61-112105 | 11/21/2005 |          | 0.11         |          | 0.0557 J     |          | 0.204      | 0.369 JT                                      |           | 133           |               |             |
| Shallow      | MWA-61  | MWA-61-011306 | 1/13/2006  |          | 0.545        |          | < 0.0472 U   |          | 0.124      | 0.669 T                                       |           | 465           |               |             |
| Shallow      | MWA-61  | MWA-61-040407 | 4/4/2007   |          | 0.567        |          | < 0.0980 U   |          | < 0.0980 U | 0.567 A                                       | 683,000   | 325           |               | 343         |
| Shallow      | MWA-61  | MWA-61-081009 | 8/10/2009  |          | 0.356 J      |          | < 0.476 U    |          | < 0.476 U  | 0.356 JA                                      | 473,000   | 715 J         |               | 489         |
| Shallow      | MWA-61  | MWA-61-022119 | 2/21/2019  | 0.27 J+  | 0.50 J+      | < 0.10   | 0.016 J+     | < 0.10   | 0.029 J+   | 0.815                                         |           | 690           | < 1.0         | 37          |
| Shallow      | MWA-63  | MWA-63-102705 | 10/27/2005 |          | < 0.0472 U   |          | < 0.0472 U   |          | < 0.0472 U | < 0.0472 UT                                   |           | 7.60          |               |             |
| Shallow      | MWA-63  | MWA-63-112105 | 11/21/2005 |          | < 0.0495 U   |          | < 0.0495 U   |          | 0.0533 J   | 0.0533 JT                                     |           | < 0.272 U     |               |             |
| Shallow      | MWA-63  | MWA-63-040407 | 4/4/2007   |          | < 0.00995 UJ |          | < 0.00995 UJ |          | 0.00603 J  | 0.00603 JA                                    | 358,000   | 0.180 J       |               | < 4.0 U     |
| Shallow      | MWA-63  | MWA-63-080509 | 8/5/2009   |          | < 0.00952 U  |          | < 0.00952 U  |          | 0.00574 J  | 0.00574 JA                                    | 690,000   | < 100 U       |               | < 8 U       |
| Shallow      | MWA-63  | MWA-63-022119 | 2/21/2019  | < 0.10   | < 0.0050     | < 0.10   | < 0.0050     | < 0.10   | < 0.010    | < 0.10                                        |           | 5,800         | < 1.0 UJ      | < 4.0       |
| Shallow      | MWA-69  | MWA-69        | 8/2/2005   |          | 17.3         |          | < 5.00 UJ    |          | 51.1       | 68.4 T                                        |           | 9,010         |               |             |
| Shallow      | MWA-69  | MWA-69-102505 | 10/25/2005 |          | 3.93         |          | 0.289        |          | 6.84       | 11.059 T                                      |           | 2,690         |               |             |
| Shallow      | MWA-69  | MWA-69-112205 | 11/22/2005 |          | 4.36         |          | 0.425        |          | 9.33       | 14.115 T                                      |           | 3,640         |               |             |
| Shallow      | MWA-69  | MWA-69-011606 | 1/16/2006  |          | 8.64         |          | 0.838        |          | 29.5       | 38.978 T                                      |           | 166           |               |             |
| Shallow      | MWA-69  | MWA-69-041707 | 4/17/2007  |          | 15.6         |          | 1.05 J       |          | 46.4 J     | 62.9 JA                                       | 511,000   | 5,360         |               | 29.5 J      |
| Shallow      | MWA-69  | MWA-69-081109 | 8/11/2009  |          | 50.0         |          | 4.16         |          | 57.9       | 112.06                                        | 297,000   | 6,930         |               | < 20 U      |
| Shallow      | MWA-69  | MWA-69-090309 | 9/3/2009   |          | 7.45         |          | 0.369        |          | 5.95       | 13.8 A                                        |           |               |               |             |
| Intermediate | MWA-8I  | GWG001        | 11/24/1998 |          |              |          |              |          |            |                                               |           | 1,700         |               |             |
| Intermediate | MWA-8I  | GW019906      | 1/27/1999  |          | 5.3 J        |          | 0.07 J       |          | 1 J        | 6.37 JT                                       | 2,660,000 | 4,800         |               |             |
| Intermediate | MWA-8I  | GW029908      | 4/27/1999  |          | 0.16 J       |          | < 0.04 UJ    |          | < 0.04 UJ  | 0.16 JT                                       | 2,290,000 | 4,300 J       |               |             |

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| Aquifer      | Well ID | Sample ID      | Date       | 2,4'-DDD | 4,4'-DDD    | 2,4'-DDE | 4,4'-DDE    | 2,4'-DDT | 4,4'-DDT    | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride    | Chlorobenzene | Chromium (VI) | Perchlorate |
|--------------|---------|----------------|------------|----------|-------------|----------|-------------|----------|-------------|-----------------------------------------------|-------------|---------------|---------------|-------------|
|              |         |                |            | µg/L     | µg/L        | µg/L     | µg/L        | µg/L     | µg/L        | µg/L                                          | µg/L        | µg/L          | µg/L          | µg/L        |
| Intermediate | MWA-8I  | GW039905       | 8/24/1999  |          | 0.05 J      |          | < 0.04 UJ   |          | < 0.04 UJ   | 0.05 JT                                       | 2,660,000   | 3,400         |               |             |
| Intermediate | MWA-8I  | GW049906       | 11/16/1999 |          | 0.08 J      |          |             |          |             | 0.08 JT                                       | 2,530,000   | 2,800         |               |             |
| Intermediate | MWA-8I  | GW010112       | 3/29/2001  |          | < 0.1 U     |          | < 0.1 U     |          | < 0.1 U     | < 0.1 UT                                      | 1,660,000 J | 4,100         |               |             |
| Intermediate | MWA-8I  | GW020107       | 6/12/2001  |          | 0.11 J      |          |             |          |             | 0.11 JT                                       | 1,420,000   | 1,400         |               |             |
| Intermediate | MWA-8I  | GW04100206     | 4/10/2002  |          | 0.08        |          | < 0.0097 U  |          | 0.012       | 0.092 T                                       | 2,110,000   | 940           |               |             |
| Intermediate | MWA-8I  | GW-060903-02   | 6/9/2003   |          | < 0.0170 U  |          | < 0.0170 U  |          | < 0.0280 U  | < 0.028 UT                                    | 2,380,000   | 23            |               | < 20 U      |
| Intermediate | MWA-8I  | MWA-8I-111004  | 11/10/2004 |          | < 0.0500 U  |          | < 0.0500 U  |          | 0.590       | 0.59 T                                        |             | 24            |               |             |
| Intermediate | MWA-8I  | MWA-8I-031005  | 3/10/2005  |          | < 0.0500 U  |          | < 0.0500 U  |          | 0.138 J     | 0.138 JT                                      |             | 185           |               |             |
| Intermediate | MWA-8I  | MWA-8I-062105  | 6/21/2005  |          | < 0.0500 U  |          | < 0.0500 U  |          | < 0.0500 U  | < 0.05 UT                                     |             | 27            |               |             |
| Intermediate | MWA-8I  | MWA-8I-091505  | 9/15/2005  |          | < 0.00103 U |          | < 0.00367 U |          | 0.0243 J    | 0.0243 JT                                     |             | 122           |               |             |
| Intermediate | MWA-8I  | MWA-8I-102705  | 10/27/2005 |          | < 0.0472 U  |          | < 0.0472 U  |          | < 0.0472 U  | < 0.0472 UT                                   |             | 215           |               |             |
| Intermediate | MWA-8I  | MWA-8I-112105  | 11/21/2005 |          | < 0.0472 U  |          | < 0.0472 U  |          | 0.0678 J    | 0.0678 JT                                     |             | 46            |               |             |
| Intermediate | MWA-8I  | MWA-8I-122005  | 12/20/2005 |          | < 0.0957 UJ |          | < 0.0957 UJ |          | < 0.0957 UJ | < 0.0957 UJT                                  |             | 25            |               |             |
| Intermediate | MWA-8I  | MWA-8I-032906  | 3/29/2006  |          | < 0.0490 U  |          | < 0.0490 U  |          | < 0.0490 U  | < 0.049 UT                                    |             | 18            |               |             |
| Intermediate | MWA-8I  | MWA-8I-040407  | 4/4/2007   |          | < 0.0976 U  |          | < 0.0976 U  |          | < 0.0976 U  | < 0.0976 UA                                   | 1,420,000   | 4,910         |               | < 200 U     |
| Intermediate | MWA-8I  | MWA-8I-080609  | 8/6/2009   |          | < 0.0190 U  |          | < 0.0190 U  |          | 0.0194      | 0.0194 A                                      | 1,020,000   | 746           |               | < 20 U      |
| Intermediate | MWA-32I | GW-060403-10   | 6/4/2003   |          | < 0.0170 UJ |          | < 0.0170 UJ |          | < 0.0280 UJ | < 0.028 UJT                                   | 31,000,000  |               |               | 200,000     |
| Intermediate | MWA-32I | MWA-32I-050605 | 5/6/2005   |          |             |          |             |          |             |                                               | 17,600,000  |               | 176           |             |
| Intermediate | MWA-32I | MWA-32I-051005 | 5/10/2005  |          |             |          |             |          |             |                                               |             |               |               | 158,000     |
| Intermediate | MWA-32I | MWA-32I-071805 | 7/18/2005  |          |             |          |             |          |             |                                               |             |               | 119           |             |
| Intermediate | MWA-32I | MWA-32I        | 8/3/2005   |          | < 0.0500 U  |          | < 0.0500 U  |          | < 0.0500 U  | < 0.05 UT                                     |             | 1             |               |             |
| Intermediate | MWA-32I | MWA-32I-081705 | 8/17/2005  |          |             |          |             |          |             |                                               |             |               | 555           |             |
| Intermediate | MWA-32I | MWA-32I-091405 | 9/14/2005  |          |             |          |             |          |             |                                               | 13,700,000  |               | 386           | 160,000     |
| Intermediate | MWA-32I | MWA-32I-120905 | 12/9/2005  |          |             |          |             |          |             |                                               |             |               | 14.4          |             |
| Intermediate | MWA-32I | MWA-32I-010606 | 1/6/2006   |          |             |          |             |          |             |                                               |             |               | 6.55 J        |             |
| Intermediate | MWA-32I | MWA-32I-021006 | 2/10/2006  |          |             |          |             |          |             |                                               |             |               | 6.72 J        |             |
| Intermediate | MWA-32I | MWA-32I-072606 | 7/26/2006  |          |             |          |             |          |             |                                               |             |               | < 2 U         |             |
| Intermediate | MWA-32I | MWA-32I-040507 | 4/5/2007   |          | 0.0818 J    |          | < 0.0952 U  |          | < 0.0952 U  | 0.0818 JA                                     | 33,800,000  | 0.470 J       | 8 J           | 131 J       |
| Intermediate | MWA-32I | MWA-32I-081009 | 8/10/2009  |          | 0.0568 J    |          | < 0.0962 U  |          | < 0.0962 U  | 0.0568 JA                                     | 2,520,000   | 0.180 J       | 210 J         | 29,900      |
| Intermediate | MWA-34I | GW-060603-05   | 6/6/2003   |          | 0.0892      |          | < 0.0170 U  |          | 0.327       | 0.416 T                                       | 3,040,000   | 666           |               | 4,600       |
| Intermediate | MWA-34I | MWA-34I-050605 | 5/6/2005   |          |             |          |             |          |             |                                               | 5,260,000   |               | 35.8          |             |
| Intermediate | MWA-34I | MWA-34I-071805 | 7/18/2005  |          |             |          |             |          |             |                                               |             |               | 17.6          |             |
| Intermediate | MWA-34I | MWA-34I        | 8/3/2005   |          | < 0.0500 U  |          | < 0.0500 U  |          | < 0.0500 U  | < 0.05 UT                                     |             | 1,540         |               |             |
| Intermediate | MWA-34I | MWA-34I-081705 | 8/17/2005  |          |             |          |             |          |             |                                               |             |               | 192           |             |
| Intermediate | MWA-34I | MWA-34I-091305 | 9/13/2005  |          |             |          |             |          |             |                                               | 4,580,000   |               | 26.9          | 5,900       |
| Intermediate | MWA-34I | MWA-34I-120905 | 12/9/2005  |          |             |          |             |          |             |                                               |             |               | 30.2          |             |
| Intermediate | MWA-34I | MWA-34I-010906 | 1/9/2006   |          |             |          |             |          |             |                                               |             |               | 13.5          |             |
| Intermediate | MWA-34I | MWA-34I-021006 | 2/10/2006  |          |             |          |             |          |             |                                               |             |               | 12.3          |             |
| Intermediate | MWA-34I | MWA-34I-072606 | 7/26/2006  |          |             |          |             |          |             |                                               |             |               | 34.5          |             |
| Intermediate | MWA-34I | MWA-34I-040907 | 4/9/2007   |          | < 0.0971 U  |          | < 0.0971 U  |          | < 0.0971 U  | < 0.0971 UA                                   | 1,400,000   | 3,920         | 32.6          | < 80.0 U    |
| Intermediate | MWA-34I | MWA-34I-081109 | 8/11/2009  |          | < 0.0200 U  |          | < 0.0200 U  |          | < 0.0200 U  | < 0.02 UA                                     | 740,000     | 3,240         | < 250 UJ      | < 40 U      |
| Intermediate | MWA-49I | MWA-49I-050605 | 5/6/2005   |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I-071405 | 7/14/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I        | 8/3/2005   |          | < 0.0500 U  |          | < 0.0500 U  |          | 0.204       | 0.204 T                                       |             | 6             |               |             |
| Intermediate | MWA-49I | MWA-49I-081605 | 8/16/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I-091305 | 9/13/2005  |          |             |          |             |          |             |                                               | 10,600,000  |               | < 4.55 U      | 160,000     |
| Intermediate | MWA-49I | MWA-49I-120905 | 12/9/2005  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I-010906 | 1/9/2006   |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I-021306 | 2/13/2006  |          |             |          |             |          |             |                                               |             |               | < 4.55 U      |             |
| Intermediate | MWA-49I | MWA-49I-072606 | 7/26/2006  |          |             |          |             |          |             |                                               |             |               | < 2 U         |             |
| Intermediate | MWA-49I | MWA-49I-041107 | 4/11/2007  |          | < 0.0971 U  |          | < 0.0971 U  |          | 0.135       | 0.135 A                                       | 11,000,000  | 0.780 J       | 0.9 J         | 42,800      |
| Intermediate | MWA-49I | MWA-49I-081009 | 8/10/2009  |          | 0.0402 J    |          | 0.0394 J    |          | 0.269       | 0.349 JA                                      | 7,560,000   | < 10.0 U      | < 25 UJ       | 58,900      |
| Intermediate | MWA-51I | MWA-51I-050505 | 5/5/2005   |          |             |          |             |          |             |                                               |             |               | 48.5          |             |
| Intermediate | MWA-51I | MWA-51I-071405 | 7/14/2005  |          |             |          |             |          |             |                                               |             |               | 63.1          |             |
| Intermediate | MWA-51I | MWA-51I        | 8/3/2005   |          | < 0.0500 U  |          | < 0.0500 U  |          | 1.21        | 1.21 T                                        |             | 845           |               |             |

Appendix E  
Historical Data Table  
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| Aquifer      | Well ID    | Sample ID      | Date       | 2,4'-DDD | 4,4'-DDD   | 2,4'-DDE | 4,4'-DDE    | 2,4'-DDT | 4,4'-DDT   | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride   | Chlorobenzene | Chromium (VI) | Perchlorate |
|--------------|------------|----------------|------------|----------|------------|----------|-------------|----------|------------|-----------------------------------------------|------------|---------------|---------------|-------------|
|              |            |                |            | µg / L   | µg / L     | µg / L   | µg / L      | µg / L   | µg / L     | µg / L                                        | µg / L     | µg / L        | µg / L        | µg / L      |
| Intermediate | MWA-51I    | MWA-51I-081605 | 8/16/2005  |          |            |          |             |          |            |                                               |            |               | 24.3          |             |
| Intermediate | MWA-51I    | MWA-51I-091305 | 9/13/2005  |          |            |          |             |          |            |                                               | 8,910,000  |               | 46.8          | 590         |
| Intermediate | MWA-51I    | MWA-51I-120805 | 12/8/2005  |          |            |          |             |          |            |                                               |            |               | 22.0          |             |
| Intermediate | MWA-51I    | MWA-51I-011006 | 1/10/2006  |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-51I    | MWA-51I-021306 | 2/13/2006  |          |            |          |             |          |            |                                               |            |               | 10.7          |             |
| Intermediate | MWA-51I    | MWA-51I-041107 | 4/11/2007  |          | 0.103      |          | < 0.0962 U  |          | 0.0572 J   | 0.16 JA                                       | 4,640,000  | 358           | 31.3          | 54.6 J      |
| Intermediate | MWA-51I    | MWA-51I-081009 | 8/10/2009  |          | 0.113      |          | < 0.0962 U  |          | 0.0363 J   | 0.149 JA                                      | 2,780,000  | 336 J         | < 250 UJ      | < 40 U      |
| Intermediate | MWA-53I    | MWA-53I-050905 | 5/9/2005   |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-53I    | MWA-53I-071805 | 7/18/2005  |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-53I    | MWA-53I-081205 | 8/12/2005  |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-53I    | MWA-53I-091205 | 9/12/2005  |          |            |          |             |          |            |                                               | 14,300,000 |               | < 4.55 U      | 1,400       |
| Intermediate | MWA-53I    | MWA-53I-120805 | 12/8/2005  |          |            |          |             |          |            |                                               |            |               | 1.10 J        |             |
| Intermediate | MWA-53I    | MWA-53I-010606 | 1/6/2006   |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-53I    | MWA-53I-020806 | 2/8/2006   |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-53I    | MWA-53I-072406 | 7/24/2006  |          |            |          |             |          |            |                                               |            |               | 6.8 J         |             |
| Intermediate | MWA-53I    | MWA-53I-041607 | 4/16/2007  |          |            |          |             |          |            |                                               | 16,200,000 |               | < 6 UJ        | 209         |
| Intermediate | MWA-53I    | MWA-53I-080609 | 8/6/2009   |          |            |          |             |          |            |                                               | 5,980,000  |               | < 25 UJ       | < 20 U      |
| Intermediate | MWA-54I    | MWA-54I-050505 | 5/5/2005   |          |            |          |             |          |            |                                               |            |               | 54.8          |             |
| Intermediate | MWA-54I    | MWA-54I-071205 | 7/12/2005  |          |            |          |             |          |            |                                               |            |               | < 136 U       |             |
| Intermediate | MWA-54I    | MWA-54I-081505 | 8/15/2005  |          |            |          |             |          |            |                                               |            |               | < 4.55 U      |             |
| Intermediate | MWA-54I    | MWA-54I-090805 | 9/8/2005   |          |            |          |             |          |            |                                               | 5,540,000  |               |               |             |
| Intermediate | MWA-54I    | MWA-54I-092305 | 9/23/2005  |          |            |          |             |          |            |                                               |            |               | 6.34 J        |             |
| Intermediate | MWA-54I    | MWA-54I-120705 | 12/7/2005  |          |            |          |             |          |            |                                               |            |               | 7.20 J        |             |
| Intermediate | MWA-54I    | MWA-54I-011106 | 1/11/2006  |          |            |          |             |          |            |                                               |            |               | 11.3          |             |
| Intermediate | MWA-54I    | MWA-54I-020906 | 2/9/2006   |          |            |          |             |          |            |                                               |            |               | 11.3          |             |
| Intermediate | MWA-54I    | MWA-54I-07506  | 7/25/2006  |          |            |          |             |          |            |                                               |            |               | 17.5 J        |             |
| Intermediate | MWA-54I    | MWA-54I-040307 | 4/3/2007   |          | < 0.0962 U |          | < 0.0962 U  |          | < 0.0962 U | < 0.0962 UA                                   | 3,090,000  | 9             | 14.4          | < 40.0 U    |
| Intermediate | MWA-54I    | MWA-54I-081909 | 8/19/2009  |          | 0.0380 J   |          | 0.00781 J   |          | 0.0103 J   | 0.0561                                        | 2,750,000  | 7             | 210 J         | < 40 U      |
| Intermediate | MWA-64I    | MWA-64I        | 8/1/2005   |          | 0.207      |          | < 0.0500 U  |          | 0.309      | 0.516 T                                       |            | 2,320         |               |             |
| Intermediate | MWA-64I    | MWA-64I-040407 | 4/4/2007   |          | 0.0563 J   |          | < 0.0966 U  |          | < 0.0966 U | 0.0563 JA                                     | 1,910,000  | 17,500        |               | < 400 U     |
| Intermediate | MWA-64I    | MWA-64I-080609 | 8/6/2009   |          | 0.0290 J   |          | < 0.0952 U  |          | 0.0319 J   | 0.0609 JA                                     | 1,590,000  | 2,070         |               | < 40 U      |
| Intermediate | MWA-66I    | MWA-66I        | 8/2/2005   |          | < 0.500 UJ |          | < 0.500 UJ  |          | < 0.500 UJ | < 0.5 UJT                                     |            | 12,900        |               |             |
| Intermediate | MWA-66I    | MWA-66I-041707 | 4/17/2007  |          | < 0.0957 U |          | < 0.0957 U  |          | < 0.0957 U | < 0.0957 UA                                   | 1,890,000  | 8,160         |               | 39.0 J      |
| Intermediate | MWA-66I    | MWA-66I-081109 | 8/11/2009  |          | < 0.0340 U |          | < 0.00971 U |          | 0.00620 J  | 0.0062 JA                                     | 1,720,000  | 7,780         | < 25 UJ       | 1,240       |
| Intermediate | MWA-70I    | MWA-70I-B      | 4/19/2006  |          |            |          |             |          |            |                                               | 68,000     | < 0.17 U      | < 1.62 U      | < 200 U     |
| Intermediate | MWA-70I    | MWA-70I-040307 | 4/3/2007   |          |            |          |             |          |            |                                               | 4,090,000  |               | 1.4 J         | < 40.0 U    |
| Intermediate | MWA-70I    | MWA-70I-080509 | 8/5/2009   |          |            |          |             |          |            |                                               | 5,200,000  |               | < 25 U        | < 20 U      |
| Deep         | MWA-11I(D) | GWG004         | 12/7/1998  |          |            |          |             |          |            |                                               |            | 49            |               |             |
| Deep         | MWA-11I(D) | GW019916       | 1/29/1999  |          | < 0.04 U   |          | < 0.04 U    |          | 0.2        | 0.2 T                                         | 612,000    | 2.5           |               |             |
| Deep         | MWA-11I(D) | GW029905       | 4/27/1999  |          | 0.19       |          | < 0.04 U    |          | 0.08       | 0.27 T                                        | 637,000    | < 0.5 UJ      |               |             |
| Deep         | MWA-11I(D) | GW039916       | 8/26/1999  |          | 0.12       |          | < 0.04 U    |          | 0.05       | 0.17 T                                        | 802,000    | < 0.5 U       |               |             |
| Deep         | MWA-11I(D) | GW049914       | 11/17/1999 |          | 0.1 J      |          | < 0.04 UJ   |          | < 0.04 UJ  | 0.1 JT                                        | 963,000    | < 1 U         |               |             |
| Deep         | MWA-11I(D) | GW010118       | 3/30/2001  |          | 0.25       |          | < 0.1 U     |          | 0.7        | 0.95 T                                        | 768,000 J  | < 0.5 U       |               |             |
| Deep         | MWA-11I(D) | GW020119       | 6/15/2001  |          | 0.25       |          | 0.01 J      |          | 0.48       | 0.74 JT                                       | 773,000    | < 0.5 U       |               |             |
| Deep         | MWA-11I(D) | GW04110204     | 4/11/2002  |          | < 0.16 U   |          | < 0.0097 U  |          | < 0.085 U  | < 0.16 UT                                     | 833,000    | < 1.4 U       |               |             |
| Deep         | MWA-11I(D) | GW-061003-03   | 6/10/2003  |          | 1.2        |          | < 0.0170 U  |          | < 0.573 U  | 1.2 T                                         | 550,000    | < 0.71 U      |               | < 20 U      |
| Deep         | MWA-11I(D) | MWA-11         | 8/1/2005   |          | 0.593      |          | < 0.0500 U  |          | 0.0829 J   | 0.6759 JT                                     |            | 0.810         |               |             |
| Deep         | MWA-11I(D) | MWA-11I-041707 | 4/17/2007  |          | 0.0722 J   |          | < 0.0971 U  |          | 0.0591 J   | 0.131 JA                                      | 1,210,000  | 1.92          |               | < 8.0 U     |
| Deep         | MWA-11I(D) | MWA-11I-081909 | 8/19/2009  |          | 0.658      |          | 0.0459 J    |          | 0.0599 J   | 0.764 JA                                      | 1,090,000  | < 0.780 U     | 40 J          | < 4 U       |
| Deep         | MWA-31I(D) | GW04080205     | 4/8/2002   |          | < 0.0097 U |          | < 0.0097 U  |          | < 0.0097 U | < 0.0097 UT                                   | 39,100,000 | < 0.5 U       |               |             |
| Deep         | MWA-31I(D) | GW-060403-07   | 6/4/2003   |          | < 0.0170 U |          | < 0.0170 U  |          | < 0.0280 U | < 0.028 UT                                    | 61,100,000 |               |               | 4,700       |
| Deep         | MWA-31I(D) | MWA-31I-050605 | 5/6/2005   |          |            |          |             |          |            |                                               | 62,100,000 |               | 726           |             |
| Deep         | MWA-31I(D) | MWA-31I-071805 | 7/18/2005  |          |            |          |             |          |            |                                               |            |               | 250           |             |
| Deep         | MWA-31I(D) | MWA-31I-081705 | 8/17/2005  |          |            |          |             |          |            |                                               |            |               | 142           |             |
| Deep         | MWA-31I(D) | MWA-31I-091405 | 9/14/2005  |          |            |          |             |          |            |                                               | 57,900,000 |               | 1,020         |             |

Appendix E  
Historical Data Table  
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| Aquifer | Well ID    | Sample ID         | Date      | 2,4'-DDD | 4,4'-DDD    | 2,4'-DDE | 4,4'-DDE    | 2,4'-DDT | 4,4'-DDT    | Total of 2,4' and<br>4,4'-DDD, -DDE, -<br>DDT | Chloride   | Chlorobenzene | Chromium (VI) | Perchlorate |
|---------|------------|-------------------|-----------|----------|-------------|----------|-------------|----------|-------------|-----------------------------------------------|------------|---------------|---------------|-------------|
|         |            |                   |           | µg / L   | µg / L      | µg / L   | µg / L      | µg / L   | µg / L      | µg / L                                        | µg / L     | µg / L        | µg / L        | µg / L      |
| Deep    | MWA-31I(D) | MWA-31I-120905    | 12/9/2005 |          |             |          |             |          |             |                                               |            |               | 25.1          |             |
| Deep    | MWA-31I(D) | MWA-31I-010906    | 1/9/2006  |          |             |          |             |          |             |                                               |            |               | 45.3          |             |
| Deep    | MWA-31I(D) | MWA-31I-021006    | 2/10/2006 |          |             |          |             |          |             |                                               |            |               | 104           |             |
| Deep    | MWA-31I(D) | MWA-31I-072606    | 7/26/2006 |          |             |          |             |          |             |                                               |            |               | < 2 U         |             |
| Deep    | MWA-31I(D) | MWA-31I(D)-040507 | 4/5/2007  |          | < 0.0962 U  |          | < 0.0962 U  |          | < 0.0962 U  | < 0.0962 UA                                   | 53,700,000 | 0.640         | < 6 UJ        | 5,730       |
| Deep    | MWA-31I(D) | MWA-31I(D)-081009 | 8/10/2009 |          | < 0.00952 U |          | < 0.00952 U |          | < 0.00952 U | < 0.00952 UA                                  | 54,300,000 | < 2.50 UJ     | 9,300 J       | 1,840       |
| Deep    | MWA-56D    | MWA-56D-050605    | 5/6/2005  |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-56D    | MWA-56D-071405    | 7/14/2005 |          |             |          |             |          |             |                                               |            |               | 22.3          |             |
| Deep    | MWA-56D    | MWA-56D-081605    | 8/16/2005 |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-56D    | MWA-56D-091305    | 9/13/2005 |          |             |          |             |          |             |                                               | 30,800,000 |               | < 4.55 U      |             |
| Deep    | MWA-56D    | MWA-56D-120905    | 12/9/2005 |          |             |          |             |          |             |                                               |            |               | < 4.55 UJ     |             |
| Deep    | MWA-56D    | MWA-56D-010906    | 1/9/2006  |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-56D    | MWA-56D-021306    | 2/13/2006 |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-56D    | MWA-56D-072606    | 7/26/2006 |          |             |          |             |          |             |                                               |            |               | < 2 U         |             |
| Deep    | MWA-56D    | MWA-56D-041107    | 4/11/2007 |          | < 0.0971 U  |          | < 0.0971 U  |          | < 0.0971 U  | < 0.0971 UA                                   | 27,900,000 | < 2.50 U      | < 2 UJ        | 2,430       |
| Deep    | MWA-56D    | MWA-56D-081009    | 8/10/2009 |          | < 0.00976 U |          | < 0.00976 U |          | 0.00690 J   | 0.0069 JA                                     | 22,800,000 | < 5.00 U      | < 25 UJ       | 2,140       |
| Deep    | MWA-58D    | MWA-58D-050605    | 5/6/2005  |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-071405    | 7/14/2005 |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-081705    | 8/17/2005 |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-091305    | 9/13/2005 |          |             |          |             |          |             |                                               | 60,700,000 |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-120905    | 12/9/2005 |          |             |          |             |          |             |                                               |            |               | < 4.55 UJ     |             |
| Deep    | MWA-58D    | MWA-58D-010906    | 1/9/2006  |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-021006    | 2/10/2006 |          |             |          |             |          |             |                                               |            |               | < 4.55 U      |             |
| Deep    | MWA-58D    | MWA-58D-072606    | 7/26/2006 |          |             |          |             |          |             |                                               |            |               | < 2 U         |             |
| Deep    | MWA-58D    | MWA-58D-040907    | 4/9/2007  |          | < 0.0962 U  |          | < 0.0962 U  |          | < 0.0962 U  | < 0.0962 UA                                   | 53,600,000 | < 2.50 U      | 57.5          | 59,600      |
| Deep    | MWA-58D    | MWA-58D-081009    | 8/10/2009 |          | < 0.00943 U |          | < 0.00943 U |          | 0.0286      | 0.0286 A                                      | 33,600,000 | 2.00 J        | < 25 UJ       | 128,000     |

Notes:  
Bolded values indicate concentrations above the Reportable Detection Limit.  
< = Compound not detected. Reportable detection limit shown.  
µg/L = micrograms per liter  
DDD = Dichlorodiphenyldichloroethane  
DDE = Dichlorodiphenyldichloroethylene  
DDT = Dichlorodiphenyltrichloroethane

Qualifiers:  
A = Total value based on limited number of analytes.  
j = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.  
J = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.  
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits.  
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits.  
T = Sample temperature did not meet quality control criteria.  
U = Compound not detected based on quality assurance review.  
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.  
R = Rejected. Quality control indicates that the data are unusable (compound may or not be present).



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## TABLES



## FIGURES



## APPENDIX A      FIELD FORMS



## APPENDIX B      LABORATORY ANALYTICAL REPORTS



## APPENDIX C DATA VALIDATION MEMOS



## APPENDIX D      PRIOR GROUNDWATER MONITORING PROGRAM DATA TABLES AND GRAPHS



## APPENDIX E      HISTORICAL DATA TABLE



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| France     | Singapore       |
| Germany    | South Africa    |
| Ghana      | South Korea     |
| Guyana     | Spain           |
| Hong Kong  | Switzerland     |
| India      | Taiwan          |
| Indonesia  | Tanzania        |
| Ireland    | Thailand        |
| Italy      | UAE             |
| Japan      | UK              |
| Kazakhstan | US              |
| Kenya      | Vietnam         |
| Malaysia   |                 |
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