



**2024 Annual Report
Remedial Action Performance and Groundwater Compliance
Monitoring**

**Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington**

Farallon PN: 301-001

December 6, 2024

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ACRONYMS AND ABBREVIATIONS

1,2-DCP	1,2-dichloropropane
1,2,3-TCP	1,2,3-trichloropropane
Second PR	<i>Second Periodic Review, CENEX Supply & Marketing Inc. Rinsate, 300 Division St. East, Quincy, Grant County, Facility Site ID No. 33599645, Cleanup Site ID No. 370 dated December 2022, prepared by Toxics Cleanup Program, Eastern Region, Washington State Department of Ecology</i>
2024 Annual Report	<i>2024 Annual Report, Remedial Action Performance and Groundwater Compliance Monitoring, Cenex Harvest States Cooperatives Site, 300 Division Street East, Quincy, Washington dated December 6, 2024 prepared by Farallon Consulting, L.L.C. (this document)</i>
CHS	CHS Inc.
CHS Property	Grant County Parcel No. 040525043, near 300 Division Street East, in Quincy, Washington
COCs	constituents of concern
Consent Decree	Consent Decree No. DE-00TCPER-1815 dated February 22, 2001 entered into by the Washington State Department of Ecology and Cenex Harvest States Cooperatives
Ecology	Washington State Department of Ecology
Farallon	Farallon Consulting, L.L.C.
Final CAP	<i>Final Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA dated February 22, 2001</i>
IHSs	indicator hazardous substances
MS/SVE	microsparge/soil vapor extraction
MSW	microsparge well
O&M	operation and maintenance
PQL	practical quantitation limit
PR	Periodic Review



RAP	<i>Draft Remedial Action Work Plan, Cenex Harvest States Cooperatives Site, 300 Division Street, Quincy, Washington dated July 2, 2001 prepared by Farallon Consulting, L.L.C.</i>
Site	Grant County Parcel No. 040525043, near 300 Division Street East, in Quincy, Washington and adjacent and down-gradient properties where hazardous substances released from the CHS Property have come to be located
SVE	soil vapor extraction
VEW	vapor extraction well
VOCs	volatile organic compounds



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this 2024 Annual Report (2024 Annual Report) for CHS Inc. (CHS) (formerly Cenex Harvest States Cooperatives) to present the results from performance air monitoring, groundwater compliance monitoring, and operation and maintenance (O&M) activities performed between December 2023 and September 2024 at the Cenex Harvest States Cooperatives Site (herein referred to as the Site) (Figure 1). The Site is defined as Grant County Parcel No. 040525043, near 300 Division Street East, in Quincy, Washington (herein referred to as the CHS Property) and adjacent and down-gradient properties where hazardous substances released from the CHS Property have come to be located. A facility plan of the CHS Property and the monitoring well network are provided on Figures 2 and 3, respectively.

The monitoring and maintenance cleanup activities were performed in accordance with the requirements of Consent Decree No. DE-00TCPER-1815 dated February 22, 2001 entered into by the Washington State Department of Ecology (Ecology) (2001b) and Cenex Harvest States Cooperatives (Consent Decree). This 2024 Annual Report presents a summary of quarterly performance air and groundwater compliance monitoring and O&M activities conducted December 2023 through September 2024, a summary of the progress toward completing recommendations identified in the Second Periodic Review (PR) (Ecology 2022), and conclusions. The quarterly September 2024 Performance Air and Groundwater Compliance Monitoring Report is provided in Appendix A. Work was completed in accordance with the *Final Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA* dated February 22, 2001 (Final CAP), Exhibit B of the Consent Decree (Ecology 2001a), along with the Letter Regarding Proposed Compliance Groundwater Monitoring Modifications and Microsparge/Soil Vapor Extraction System 2024 Optimization Plan (Farallon 2024b), approved by Ecology (2024) on April 26, 2024.

1.1 BACKGROUND

Remedial activities have been conducted at the Site since the early 1990s due to historical releases of volatile organic compounds (VOCs) to soil and groundwater from a former fumigant tank storage area and rinsate collection system on the CHS Property (Figure 2). The rinsate collection system consisted of a concrete rinse pad and a rinsate collection pond used to collect rinsate water from the cleaning of agricultural application equipment. Based on the historical remedial investigation activities, the indicator hazardous substances (IHSs) for groundwater were established as a subset of the constituents of concern (COCs) for the



Site and defined by Ecology (2001a) in the Final CAP, Exhibit B of the Consent Decree. The IHSs for groundwater for the Site are chloroform, 1,2-dibromoethane, 1,2-dichloroethane, 1,2-dichloropropane (1,2-DCP), 1,1,2-trichloroethane, 1,2,3-trichloropropane (1,2,3-TCP), and vinyl chloride.

Releases at the CHS Property impacted soil and groundwater and have migrated in groundwater to the southeast. One or more IHSs have been detected in groundwater at concentrations exceeding the Site cleanup levels in groundwater samples collected 2,000 to 2,500 feet down-gradient of the source area on the CHS Property. The southeast-trending groundwater plume is relatively narrow in width compared to its length, approximately 300 feet at the widest point.

An extensive groundwater monitoring network is in place at the Site consisting of both shallow and deep monitoring wells designed to monitor groundwater near the top and bottom of the uppermost aquifer at the Site. Shallow monitoring wells at the Site are completed to a total depth of approximately 20 to 25 feet below ground surface; and deep monitoring wells to a total depth of approximately 40 to 45 feet below ground surface. The groundwater plume has been regularly monitored since 1996 to ensure cleanup activities at the CHS Property continue to protect human health and the environment.

Historical remedial actions at the Site included removal of COC-affected soil from the former rinsate pond, fumigant tank, and rinse pad areas and installation of an air sparge and soil vapor extraction (SVE) system. CHS completed installation and start-up of the current microsparge/SVE (MS/SVE) soil and groundwater treatment system at the Site in November 2001. Performance air and groundwater compliance monitoring generally has been conducted quarterly since system start-up. Details of system start-up and operation were presented in the *Cleanup Action Report, Cenex Harvest States Cooperative [sic] Site, 300 Division Street, Quincy, Washington* dated April 5, 2002, prepared by Farallon (2002). The MS/SVE system conducts three primary operations:

- Extraction of VOCs from vadose zone soil using SVE wells VEW-1 through VEW-9 (VEW wells);
- Air sparging for stripping of VOCs from groundwater at two depths in MS/SVE microsparge wells (MSW) MSW-1 through MSW-12; and
- Extraction of VOCs from vadose zone soil and stripped VOC vapors from the SVE component of the 12 MSW wells.



Details of the December 2023 to September 2023 MS/SVE system operations are provided in Section 4.0, Operation and Maintenance Annual Summary.

1.2 ORGANIZATION

This 2024 Annual Report is organized into the following sections:

- **Section 2, Performance Air Monitoring Annual Summary**, presents the performance air monitoring results for the past year.
- **Section 3, Groundwater Compliance Monitoring Annual Summary**, presents a summary of the groundwater elevation and analytical results for the past year and a trend analysis of groundwater concentrations.
- **Section 4, Operation and Maintenance Annual Summary**, provides a summary of O&M activities conducted for the MS/SVE system and monitoring wells at the Site over the past year along with MS/SVE system optimization efforts.
- **Section 5, Second Periodic Review**, provides a summary of the progress in completing recommendations identified in the Second PR.
- **Section 6, Conclusions**, provides Farallon's conclusions pertaining to the ongoing remediation and monitoring activities at the Site.
- **Section 7, References**, presents a list of the documents cited in this 2024 Annual Report.
- **Section 8, Limitations**, presents Farallon's standard limitations for this 2024 Annual Report.



2.0 PERFORMANCE AIR MONITORING ANNUAL SUMMARY

This section presents a summary of the results from performance air monitoring conducted over the past year. Performance air samples were collected in December 2023, and April, June, and September 2024 from monitoring ports installed in the MS/SVE system effluent and influent piping. The monitoring ports for the influent and effluent monitoring conducted at the Site are located as follows:

- MSW influent monitoring: upstream of the air bleed-in valve, and upstream of all carbon filters to monitor the air drawn from the MSW wells;
- Vapor extraction well (VEW) influent monitoring: upstream of the air bleed-in valve, and upstream of all carbon filters to monitor the air drawn from the VEW wells.
- Effluent monitoring downstream of all carbon filters; and
- Breakthrough effluent monitoring: downstream of the first carbon filter.

In addition to the MSW and VEW influent, effluent, and breakthrough air samples, air samples were collected from individual VEW wells VEW-1 through VEW-9 in June 2024 for the MS/SVE system optimization evaluation (Farallon 2024b).

A summary of the performance air sampling parameters and analytical results for the past year are provided in Tables 1 through 3 and as follows:

- IHSs were not detected at a concentration exceeding the laboratory practical quantitation limit (PQL) of 1.0 microgram per liter in the effluent or breakthrough effluent air samples collected during the December 2023, and April or September 2024 sampling events (Table 2).
- 1,2-DCP was detected at concentrations exceeding laboratory PQLs in the air samples collected from the MSW and VEW monitoring ports in December 2023 and June and September 2024 (Table 3).
- The highest concentrations of 1,2-DCP were detected in the air samples collected from the VEW wells VEW-1 and VEW-2 (Table 3, Figure A1).

Chart 1 depicts 1,2-DCP concentrations detected in the air samples collected from the MSW and VEW monitoring ports from March 2015 through September 2024 and shows the significant periods of MS/SVE system shut-downs (shaded in blue) that occurred due to planned evaluation shut-down periods or unforeseen mechanical malfunctions. Details on the system shut-down periods are provided below in Section 5.0, Operations and



Maintenance Annual Summary. Also shown is the MS/SVE system operating period (shaded in green) when the SVE portion of the system was operating without the sparge system due to repairs being completed on the system compressor.

1,2-DCP concentrations detected in air samples collected from the MSW and VEW monitoring ports decreased when the sparge portion of the system was not operating between December 2023 and May 2024 and temporarily increased immediately following restart of the sparge portion of the system. Concentrations of 1,2-DCP in air samples then decreased upon continuous operation of the MS/SVE system, which is a typical condition following restart of this type of remediation system. The 1,2-DCP concentration trends observed during this reporting period are presented in Table 3 and Chart 1.

System optimization measures initiated in September 2024 and detailed in Appendix A, Section 5.0, Operation and Maintenance and System Optimization Activities, included adding operation of MSW wells MSW-1 and MSW-2 and increasing the vacuum at VEW wells VEW-1 through VEW-3, where the highest 1,2-DCP concentrations in air samples were detected. 1,2-DCP concentrations will be measured in December 2024 in the three individual VEW legs as part of the ongoing system optimization evaluation.

1,2,3-TCP has not been detected at concentrations exceeding the laboratory PQL in air samples collected from the MS/SVE system at a frequency to enable calculation of the mass recovered.

The estimated mass of 1,2-DCP recovered by the MS/SVE system has been calculated since February 2016. The estimated mass of 1,2-DCP recovered by the MS/SVE system over the past year was approximately 0.026 pound. The estimated mass of 1,2-DCP recovered by the MS/SVE system between February 2016 and September 2024 was 0.321 pound (Table 4). A summary of the estimated mass of 1,2-DCP recovered by the MSW-series and the VEW-series SVE wells is provided in Chart 2, which also depicts extended periods of MS/SVE system planned and unplanned shut-down periods (shaded in blue) and the period when the VEW portion of the MSW and VEW wells was operating (shaded in green).

While the MS/SVE system continues to recover 1,2-DCP from the CHS Property, the amount recovered continues to be minimal. The MS/SVE system optimization efforts are ongoing and the performance of the system will be summarized at the close of 2024 and presented to Ecology in a separate Technical Memorandum, as requested by Ecology.



3.0 GROUNDWATER COMPLIANCE MONITORING ANNUAL SUMMARY

This section presents a summary of the groundwater compliance monitoring results for the past year, including groundwater elevation and analytical results for the monitoring events conducted in December 2023 and April and September 2024.

3.1 GROUNDWATER ELEVATION

Groundwater elevation measurements from the past year of monitoring are provided in Table 5. Groundwater elevation contour maps for the shallow monitoring well network were constructed using data collected during the three groundwater monitoring events. The groundwater elevation contour map for the September 2024 monitoring event is provided in Appendix A on Figure A1. Groundwater elevation contour maps for the December 2023 and April 2024 monitoring events are provided in Appendix B on Figures B1 and B2.

The groundwater flow direction at the Site is generally to the southeast. Groundwater elevations generally fluctuate seasonally due to irrigation activities conducted in the area, resulting in an increase in groundwater elevation during the spring and summer irrigation season, and a decrease in groundwater elevation during the fall and winter. Historically, the highest groundwater elevations in the shallow monitoring well network typically were measured during the third quarter monitoring event each year, and the lowest during the first quarter monitoring event. Groundwater measurements over the past several years have shown shifts in seasonal elevation trends in areas of the Site, as discussed below.

Over the past year, groundwater elevations in the shallow monitoring well network were generally the highest during the December 2023 monitoring event and lowest during the April 2024 monitoring event with the exception of monitoring wells near the West Canal, which had the highest elevations during the September 2024 monitoring event (Table 5). Surface water elevations measured in the West Canal over the past year were also the highest during the September 2024 monitoring event. The surface water elevation in the West Canal influences the groundwater elevation, gradient, and flow direction in monitoring wells adjacent to the canal. When the surface water elevation in the West Canal is high, higher groundwater elevations usually are observed in adjacent monitoring wells or when surface water elevation in the West Canal is low lower groundwater elevations are observed. A steeper groundwater gradient generally is observed in monitoring wells adjacent to the West Canal when the surface water elevation in the West Canal is low (Table 5; Chart 3).



Surface water elevations measured in the West Canal drainage ditch over the past year were lowest in April 2024 and the highest in December 2023. Surface water elevations were not measured in September 2024 due to access restrictions. Surface water elevations measured in the West Canal drainage ditch generally have been lower than groundwater elevations measured in monitoring wells adjacent to the West Canal drainage ditch during the June and September monitoring events at the Site, indicating that shallow groundwater discharges to the West Canal drainage ditch for approximately half of the year (Chart 3). The surface water elevation measured in the West Canal drainage ditch in December 2023 and April 2024 was higher than the groundwater elevations measured in monitoring well MW-41 and MW-42 (Chart 3).

3.2 ANALYTICAL RESULTS

This section presents a summary of the groundwater compliance monitoring analytical results for this reporting year of monitoring at the Site.

3.2.1 Isoconcentration Contour Figures

Groundwater analytical results from the past year of monitoring at the Site are summarized in Table 6. The isoconcentration contours and groundwater analytical results for 1,2-DCP in the shallow and the deep monitoring well networks for the December 2023 and April 2024 monitoring events are presented in Appendix C on Figures C1 through C16. Figures A2 through A9 depict isoconcentration contours and groundwater analytical results for 1,2-DCP and 1,2,3-TCP in the shallow and deep monitoring wells for the September 2024 monitoring event. For construction of the isoconcentration figures, monitoring wells not sampled as part of the quarterly monitoring program were assumed to contain no detectable concentrations of 1,2-DCP and/or 1,2,3-TCP.

A southeast-trending plume of dissolved-phase 1,2-DCP and 1,2,3-TCP is present at concentrations exceeding the Site cleanup level in groundwater at the Site. The overall plume geometry in the shallow and deeper groundwater for 2024 has remained consistent with historical data.

1,2-DCP and 1,2,3-TCP has not been detected at concentrations exceeding the Site cleanup level in groundwater samples collected from monitoring wells MW-34, MW-39, and MW-44, the farthest down-gradient wells in the deep monitoring well network at the Site, over the past year of monitoring (Figures A6, A7, C5, C6, C13, C14).



3.2.2 Cross Sections

Cross sections depicting 1,2-DCP distribution in groundwater in the shallow aquifer beneath the Site for the December 2023 and April 2024 monitoring events are presented in Appendix D on Figures D1 through D4. Figures A10 and A11 depict cross sections of the 1,2-DCP and 1,2,3-TCP distribution in groundwater at the Site for the September 2024 sampling event. The cross sections were constructed along the approximate center line of the 1,2-DCP and 1,2,3-TCP groundwater plume, with monitoring wells outside of the centerline projected to line A-A' on Figure 3 and shown on the cross sections for spatial reference. The cross sections constructed over the past year generally show the highest concentrations of 1,2-DCP in deep groundwater down-gradient of the CHS Property in the central portion of the Site. The highest concentrations of 1,2,3-TCP have been detected in groundwater samples collected from monitoring well MW-24, in the central portion of the CHS Property.

3.2.3 Trend Analysis

A trend analysis of groundwater analytical results for 1,2-DCP and 1,2,3-TCP was completed for key monitoring wells using ProUCL statistical software (U.S. Environmental Protection Agency 2022). The Mann-Kendall trend analysis was completed for analytical results from the last 5 years of monitoring at monitoring wells in the center of the plume at the source area, mid-plume, and end of plume. The results are summarized on Table E1 and summary graphs are provided in Appendix E. The statistical analysis showed the following trends:

- Source Area – monitoring wells MW-24 (shallow) and MW-16 (deep) showed a decreasing trend for 1,2-DCP concentrations and stable (no trend) for 1,2,3-TCP concentrations.
- Mid-plume/Quincy Middle School – monitoring wells MW-20, MW-26, and MW-28 (shallow); and MW-25 and MW-31 (deep) showed a stable or decreasing trend for 1,2-DCP and 1,2,3-TCP concentrations except for monitoring well MW-28, which showed an increasing trend for 1,2-DCP concentrations.
- End of plume/West Canal – monitoring wells MW-38 and MW-46 (shallow); and MW-44 (deep) 1,2-DCP and 1,2,3-TCP concentrations were stable (no trend).

The increasing trend of 1,2-DCP concentrations observed over the last 5 years in monitoring well MW-28 is likely due to downgradient migration of COCs from the source area outside of the area of influence of the MS/SVE system. 1,2-DCP concentrations immediately down-gradient of the CHS Property historically were two orders of magnitude higher in groundwater samples than what is currently detected (MW-6 and MW-7) and are outside of



the area of influence of the MS/SVE system. Concentrations of 1,2-DCP and 1,2,3-TCP continue to fluctuate slightly within the plume area with overall decreasing to stable concentration trends associated with historical source control measures.



4.0 OPERATION AND MAINTENANCE ANNUAL SUMMARY

This section provides a summary of the O&M activities conducted for the MS/SVE system and monitoring wells at the Site over the past year and system optimization efforts.

4.1 MICROSPARGING/SOIL VAPOR EXTRACTION SYSTEM

O&M activities conducted on the MS/SVE system from December 2023 through April 2024 were detailed in reports previously submitted to Ecology (Farallon 2024a and 2024c). O&M activities conducted between May and September 2024 are provided in Appendix A. A summary of O&M activities conducted on the MS/SVE system over the past year is provided below.

CHS discovered that the MS/SVE system was not operating on December 1, 2023 and attempts to restart the system were not successful as the compressor motor would not start. The compressor motor was removed from the Site and transported to Cascade Machinery & Electric, Inc. of Seattle, Washington on December 8, 2023 to be evaluated. The evaluation of the compressor motor indicated that the motor could be repaired.

The vacuum blower was restarted on December 5, 2023 and operated VEW wells VEW-1 through VEW-9; and the VEW component of MSW wells MSW-5 through MSW-12 between December 5, 2023 and May 22, 2024.

The repaired compressor was installed on May 22, 2024. The operation of the MS/SVE system included:

- Operating VEW wells VEW-1 through VEW-9; and
- Operating the MS and SVE components of MSW wells MSW-5 through MSW-12.

On May 22 and June 7, 2024 dissolved oxygen and vacuum in vadose zone monitoring wells in the vicinity of the MS/SVE system were measured for the MS/SVE system optimization evaluation (Table A1). In addition, air samples for analysis of 1,2-DCP from individual VEW wells VEW-1 and VEW-9 also were collected (Table 3).

Following Ecology approval, the MS/SVE system was shut down July 10, 2024, due to regional temperatures exceeding safe operating conditions for the equipment. The system was shut down to mitigate damage to the blower and compressor from overheating.

Upon restarting the MS/SVE system on September 10, 2024, airflow adjustments were made to the system to optimize recovery of 1,2-DCP. Due to higher concentrations of 1,2-



DCP detected in air samples collected from VEW wells VEW-1 and VEW-2 compared to other VEW wells (Table 3; Figure A1), the following modifications were made:

- The applied vacuum at VEW wells VEW-1 through VEW-3 was increased; and
- Both sparge and SVE portions of MSW wells MSW-1 and MSW-2 were turned on.

On September 24, 2024, a gate valve was installed in the MSW system vacuum piping to attempt to further increase the vacuum to VEW wells VEW-1 through VEW-3. The overall vacuum to VEW wells VEW-1 through VEW-3 was increased by almost 30 percent.

Aboveground piping was inspected for leaks, misalignment, loose fittings, corrosion, deformation, and overall condition. Piping on the carbon filtration system and the biofilter was inspected for leaks, misalignment, and loose fittings. All fittings appeared to be tight and in alignment.

The piping for MSW well MSW-9 was repaired during the December 2023 sampling event due to a crack discovered in the piping for the deep sparge well.

4.2 MONITORING WELLS

During each of the monitoring events conducted over the past year, monitoring wells were inspected for overall integrity; gasket seals were cleaned and inspected; and missing bolts, washers, and gasket seals were replaced, as needed. Site monitoring wells, including monitoring wells not part of the routine quarterly compliance groundwater monitoring and sampling program, were inspected for overall integrity during the April 2024 monitoring event.

On September 16, 2024, the monument for monitoring well MW-4 was replaced by Holt Services, Inc. of Edgewood, Washington. Construction work on the adjacent building in 2023 resulted in the ground surface being raised several inches in elevation. The existing monument was removed, and a new monument was installed flush with the new ground surface.



5.0 SECOND PERIODIC REVIEW

Ecology completed the Second PR for the Site in December 2022 (Ecology 2022).

Recommendations by Ecology in the Second PR for the Site included:

- Continue groundwater monitoring based on Ecology-approved frequency and sampling locations.
- Continue to optimize the MS/SVE system operations at the CHS Property as proposed and approved by Ecology in August 2021.
- Continue to optimize the vadose zone SVE operations at the CHS property, where possible. Collect soil gas samples from individual SVE wells to assess any potential elevated IHS areas. Modify existing SVE operations according to the approved plan to address SVE wells that show the highest IHS vapor concentrations.
- Sample the domestic water supply well southeast of the West Canal at least once every 5 years for Site IHSs.
- Record environmental covenants for all parcels within the Site.
- Prepare a comprehensive remediation performance evaluation as part of an annual report submitted a year prior to the next PR.

Samples from the domestic water supply well were collected in 2023 (Farallon 2023). Work to address some of the recommendations is on-going and progress toward completing the recommendations is provided in the following sections.

5.1 GROUNDWATER MONITORING FREQUENCY AND SCOPE

Modifications to the groundwater frequency and scope were proposed in the Letter Regarding Proposed Compliance Groundwater Monitoring Modifications and Microsparge/Soil Vapor Extraction System 2024 Optimization Plan (Farallon 2024b). The modifications were approved by Ecology (2024) on April 26, 2024.

Changes to the compliance groundwater sampling program for the Site consist of collecting groundwater samples semiannually for the next 5 years. This sampling frequency and scope will be subject to review at the conclusion of the 5-year monitoring and sampling period.

The semiannual compliance groundwater monitoring events will be conducted during the first and third quarters of each calendar year, with the first semiannual compliance groundwater monitoring event conducted during the third quarter 2024. Compliance



groundwater samples were collected during the second quarter of 2024. The compliance groundwater monitoring details are provided in Table 7 and on Figures 4A and 4B.

Compliance groundwater samples will continue to be analyzed for IHSs by U.S.

Environmental Protection Agency Method 8260D.

In lieu of quarterly reporting, semiannual reports will be prepared each year documenting the groundwater compliance monitoring events and MS/SVE system optimization results. Each report will be completed following receipt and validation of the laboratory analytical results for each semiannual groundwater sampling event. The reports will continue to be prepared and submitted in general accordance with the schedule in the Consent Decree.

5.2 OPTIMIZE MS/SVE SYSTEM

In the Letter Regarding Proposed Compliance Groundwater Monitoring Modifications and Microsparge/Soil Vapor Extraction System 2024 Optimization Plan (Farallon 2024b), evaluation measures were presented to optimize VOC recovery and approved by Ecology (2024) on April 26, 2024. The optimization plan included:

- Collecting air samples for analysis of 1,2-DCP from individual VEW wells VEW-1 through VEW-9 to identify areas with higher concentrations of 1,2-DCP. 1,2-DCP will be used as an indicator of VOC concentrations;
- Focusing the applied vacuum to SVE system VEW wells with higher concentrations of 1,2-DCP;
- Measuring dissolved oxygen in monitoring wells adjacent to the MS/SVE system to evaluate the effects of air sparge system MSW well operation on dissolved oxygen concentrations in the treatment area; and
- Measuring vacuum at vadose zone monitoring wells adjacent to the MS/SVE system to evaluate radius of influence of the SVE system.

Results of the MS/SVE system optimization evaluation and efforts are presented in Appendix A and summarized in Sections 2.0, Performance Air Monitoring Annual Summary and 4.1, Microsparge/Soil Vapor Extraction System.



5.3 ENVIRONMENTAL COVENANTS

CHS has been working to record environmental covenants for parcels within the Site that do not currently have environmental covenants. CHS has been working with the Attorney General's Office, the City of Quincy, and Ecology to finalize an environmental covenant for Grant County Parcel No. 040376001. CHS is also working with Ecology and the property owner for Grant County Parcel No. 040376001. Once the environmental covenants for these two parcels have been recorded, the parcels identified within the Site boundary will have environmental covenants recorded.

5.4 REMEDIATION PERFORMANCE EVALUATION

The MS/SVE system optimization efforts will continue through 2024 and will be continuously evaluated as the data is available. The performance of the system will be summarized at the close of 2024 and presented to Ecology in a separate Technical Memorandum for review. The results of the optimization efforts will be used to evaluate further remedial action(s), if any are necessary to achieve the remedial action objectives, which would be implemented in 2025. The MS/SVE system will continue operation until the optimization results and recommendations for further action(s) are evaluated by Ecology.



6.0 CONCLUSIONS

1,2-DCP and 1,2,3-TCP continue to be detected at concentrations exceeding Site cleanup levels in groundwater samples collected from Site monitoring wells during the past year of groundwater monitoring, which is consistent with previous sampling results. The geometry of the plumes, including the lateral and vertical distribution, has remained relatively stable since groundwater sampling began in the late 1990s. The down-gradient and lateral extent of 1,2,3-TCP in groundwater at the Site has remained less widespread than that of 1,2-DCP (Figures A2 through A9 and Appendix C). Groundwater conditions, including the flow direction, and groundwater quality through the distribution of the plumes are well understood due to the extensive data collected and analyzed over the past 20 years of groundwater monitoring. Trend analysis of 1,2-DCP and 1,2,3-TCP indicates that overall concentrations are decreasing or stable within the plume area. The next semiannual groundwater compliance monitoring event is scheduled for March/April 2025.

There was no measurable 1,2,3-TCP detected, and minimal amounts of 1,2-DCP detected exceeding the laboratory PQL in SVE effluent air samples collected from the MSW and VEW monitoring ports over the past year of MS/SVE system operation. The estimated mass of 1,2-DCP recovered by the MS/SVE system since February 2016 is 0.321 pound. The source of 1,2-DCP detected in SVE influent air samples is likely residual soil gas in the vadose zone soil and stripped VOCs from groundwater.

The MS/SVE system optimization efforts will continue as discussed in Section 5.4, Remediation Performance Evaluation and in coordination with Ecology. The system performance will be evaluated to determine whether continued operation and optimization can increase IHS mass removal and/or make improvements in groundwater quality that correlate directly to the MS/SVE system operation and shorten the overall cleanup restoration time.



7.0 REFERENCES

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- . 2024a. Letter Regarding December 2023 Remedial Action Performance and Groundwater Compliance Monitoring, Cenex Harvest States Cooperatives Site, Quincy, Washington. From Tracey Mulhern and Jeffrey Kaspar. To Kristin Beck, Washington State Department of Ecology. March 14.
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8.0 LIMITATIONS

8.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information.** Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization.** Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and CHS, and currently accepted industry standards. No other warranties, representations, or certifications are made.

8.2 LIMITATION ON RELIANCE BY THIRD PARTIES

Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of CHS to address the unique needs of CHS at the Site at a specific point in time.

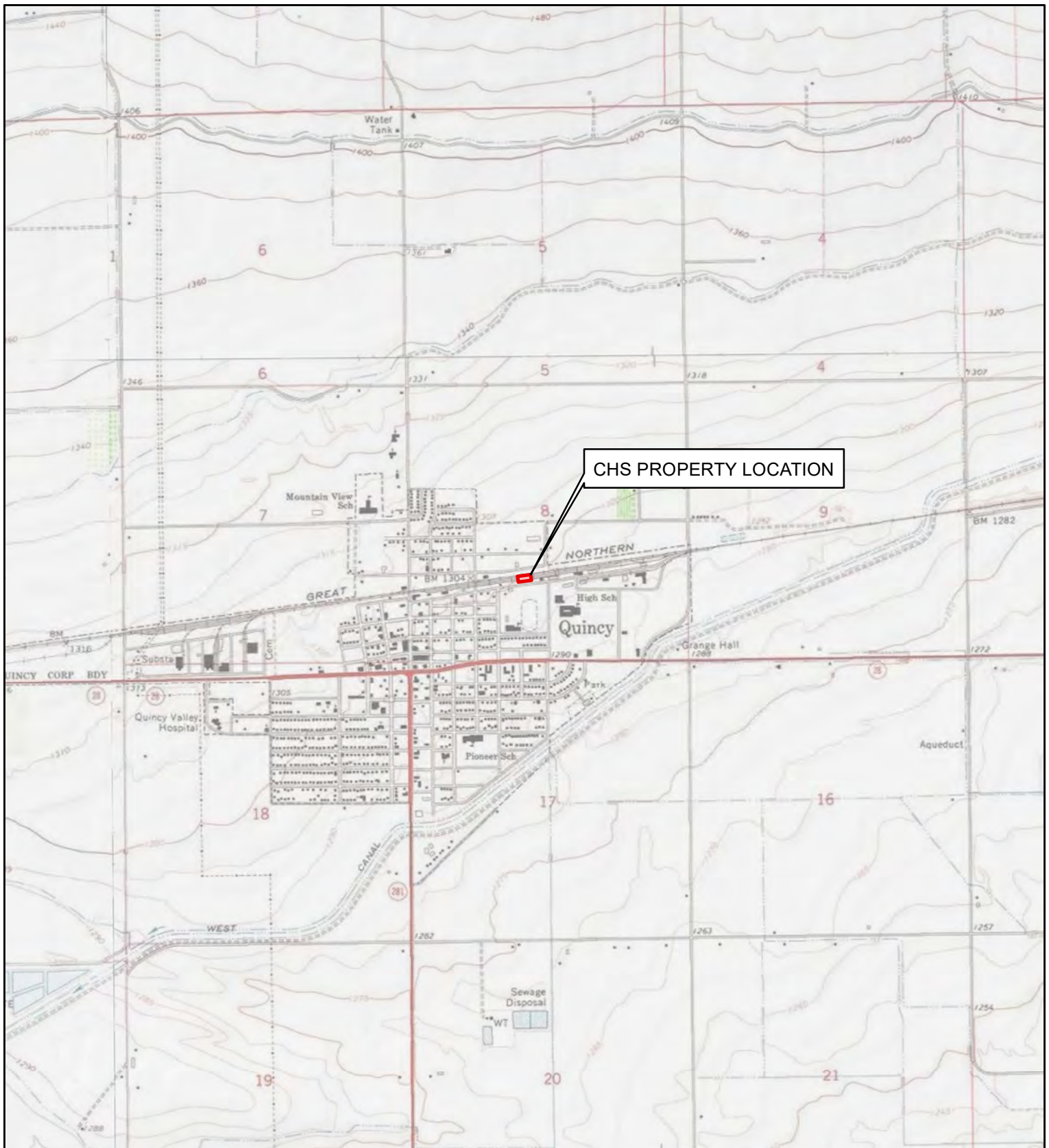


This is not a general grant of reliance. No one other than CHS may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001



REFERENCE: 7.5 MINUTE USGS QUADRANGLE QUINCY, WASHINGTON, DATED 2013



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FIGURE 1

PROPERTY VICINITY MAP
CENEX HARVEST STATES
COOPERATIVES SITE
QUINCY, WASHINGTON
FARALLON PN: 301-001

Drawn By: jjones

Checked By: TM

Date: 10/16/2024

Disc Reference:

Path: Q:\Projects\301 Cenex\001 Quincy\Mapfiles\008\2024-10\Figure-01_PropertyVicinityMap.mxd



- LEGEND**
- + AIR SPARGE WELL
 - MICROSPARGE WELL
 - ▲ VAPOR EXTRACTION WELL
 - ⊕ MONITORING WELL (SHALLOW)
 - ⊕ MONITORING WELL (DEEP)
 - AIR SPARGE WELL PIPING
 - MICROSPARGE EXTRACTION WELL PIPING
 - VAPOR EXTRACTION WELL PIPING
 - CURRENT SITE FEATURE
 - FORMER SITE FEATURE
 - GRANT COUNTY PARCEL BOUNDARY
 - CHS PROPERTY BOUNDARY



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE 2
 CHS PROPERTY PLAN
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001



Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

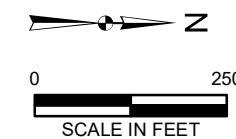
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Drawn By: jones Checked By: TM Date: 10/16/2024



- LEGEND**
- MONITORING WELL (SHALLOW)
 - MONITORING WELL (DEEP)
 - WEST CANAL SURVEYED MEASURING POINT
 - WEST CANAL DRAINAGE DITCH SURVEYED MEASURING POINT
 - DOMESTIC WELL
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
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FIGURE 3

CHS PROPERTY AND DOWN-GRADIENT
 MONITORING WELL NETWORK
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON

FARALLON PN: 301-001

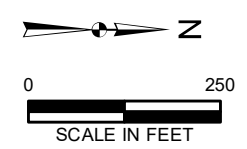
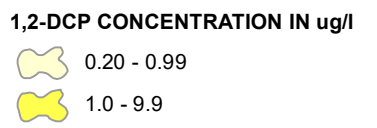


Washington
 Issaquah | Bellingham | Seattle
 Oregon
 Portland | Baker City
 California
 Oakland | Irvine

Drawn By: jones Checked By: TM Date: 10/16/2024



- LEGEND**
- MONITORING WELL (SHALLOW)
 - MONITORING WELL SAMPLING DESIGNATION**
 - MONITORING WELL SAMPLED SEMIANNUALLY
 - MONITORING WELL SAMPLED ON AN 18 MONTH SCHEDULE
 - MONITORING WELL NOT PART OF THE COMPLIANCE GROUNDWATER MONITORING PROGRAM
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
- [0.40] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (ug/l) DECEMBER, 2023
- BOLD** = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 ug/l
- < = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED
- NS = WELL NOT SAMPLED
- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED



1. ALL LOCATIONS ARE APPROXIMATE.
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FIGURE 4A

MODIFIED COMPLIANCE GROUNDWATER MONITORING SAMPLING LOCATIONS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS CENEX HARVEST STATES COOPERATIVES SITE QUINCY, WASHINGTON

FARALLON PN: 301-001

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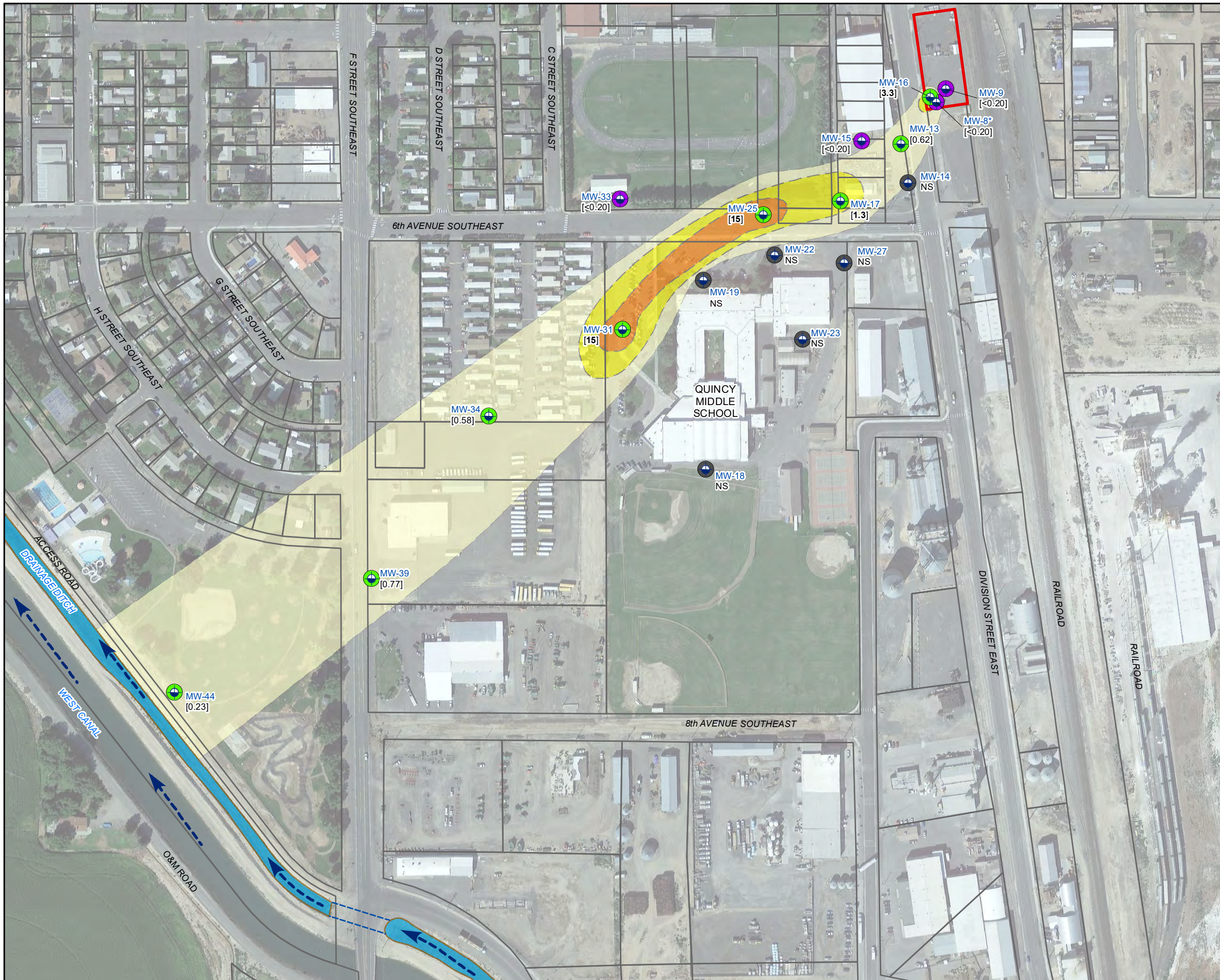
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Drawn By: j Jones Checked By: TM Date: 3/28/2024



LEGEND

- MONITORING WELL (DEEP)
- MONITORING WELL SAMPLING DESIGNATION**
- MONITORING WELL SAMPLED SEMIANNUALLY
- MONITORING WELL SAMPLED ON AN 18 MONTH SCHEDULE
- MONITORING WELL NOT PART OF THE COMPLIANCE GROUNDWATER MONITORING PROGRAM
- WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
- WEST CANAL DRAINAGE DITCH CULVERT
- CHS PROPERTY BOUNDARY
- WEST CANAL DRAINAGE DITCH
- [0.23] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l) DECEMBER 2023
- * = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS
- BOLD** = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l
- < = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED
- NS = WELL NOT SAMPLED
- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25



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FIGURE 4B

MODIFIED COMPLIANCE GROUNDWATER MONITORING SAMPLING LOCATIONS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS CENEX HARVEST STATES COOPERATIVES SITE QUINCY, WASHINGTON
 FARALLON PN: 301-001



Washington
 Issaquah | Bellingham | Seattle
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 California
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TABLES

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001

**Table 1
Air Sampling Parameters
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001**

Sample Location	Sample Identification	Sample Date	Sample Volume (liters)	Sampling Device	Sample Start Time	Sample End Time	Sample Duration (minutes)	Initial Pressure (inches of mercury) ¹	Final Pressure (inches of mercury) ²
MSW Wells									
Influent From MSW Wells, Upstream of Air Bleed-In Valve	MSW-121420-P-A	12/14/2020	1	Summa Canister	15:52	15:58	0:06	-28.0	-5.0
	MSW-033121-P-A	3/31/2021	1	Summa Canister	8:48	8:55	0:07	-29.0	-5.0
	MSW-062321-P-A	6/23/2021	1	Summa Canister	12:13	12:19	0:06	-27.0	-5.0
	MSW-102821-P-A	10/28/2021	6	Summa Canister	16:40	17:09	0:29	-26.0	-7.4
	MSW-121421-P-A	12/14/2021	6	Summa Canister	8:34	8:41	0:07	-27.0	-22.0
	MSW-032922-P-A	3/29/2022	6	Summa Canister	8:45	9:33	0:48	-27.0	-6.0
	MSW-111022	11/10/2022	6	Summa Canister	16:18	16:54	0:36	-27.0	-5.0
	MSW-011023-P-A	1/10/2023	6	Summa Canister	17:30	18:04	0:34	-25.0	-4.5
	MSW-062223-P-A	6/22/2023	6	Summa Canister	14:03	14:43	0:40	-27.0	-4.0
	MSW-092623-P-A	9/26/2023	6	Summa Canister	15:39	16:19	0:40	-26.0	-5.0
	MSW-120523-P-A	12/5/2023	6	Summa Canister	9:18	10:16	0:58	-27.0	-4.5
	MSW-060724-P-A	6/7/2024	6	Summa Canister	13:35	14:27	0:52	-28.5	-5.0
	MSW-092424-P-A	9/24/2024	6	Summa Canister	12:27	13:01	0:34	-27.0	-4.0
VEW Wells									
Influent From VEW Wells	VEW-121420-P-A	12/14/2020	1	Summa Canister	15:56	16:02	0:06	-29.0	-5.0
	VEW-033121-P-A	3/31/2021	1	Summa Canister	8:55	9:01	0:06	-27.0	-5.0
	VEW-062321-P-A	6/23/2021	1	Summa Canister	12:26	12:33	0:07	-29.0	-5.0
	VEW-102821-P-A	10/28/2021	6	Summa Canister	16:38	17:12	0:34	-28.7	-8.4
	VEW-121421-P-A	12/14/2021	6	Summa Canister	9:11	9:23	0:12	-25.5	-20.5
	VEW-032922-P-A	3/29/2022	6	Summa Canister	9:46	11:55	2:09	-28.0	-7.0
	VEW-111022	11/10/2022	6	Summa Canister	16:19	17:02	0:43	-27.2	-5.0
	VEW-011023	1/10/2023	6	Summa Canister	17:30	18:04	0:34	-26.0	-4.75
	OVERALL-062223-P-A	6/22/2023	6	Summa Canister	14:03	14:39	0:36	-26.0	-5.0
	VEW-092623-P-A	9/26/2023	6	Summa Canister	16:30	17:11	0:41	-26.0	-5.0
	VEW-120523-P-A	12/5/2023	6	Summa Canister	9:58	10:41	0:43	-28.5	-4.5
	OVERALL-060724-P-A	6/7/2024	6	Summa Canister	14:33	15:17	0:44	-28.9	-4.4
	VEW-092424-P-A	9/24/2024	6	Summa Canister	12:28	13:09	0:41	-26.5	-5.0

**Table 1
Air Sampling Parameters
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001**

Sample Location	Sample Identification	Sample Date	Sample Volume (liters)	Sampling Device	Sample Start Time	Sample End Time	Sample Duration (minutes)	Initial Pressure (inches of mercury) ¹	Final Pressure (inches of mercury) ²
VEW Wells - Individual Piping Runs									
Influent From VEW Wells VEW-1 through VEW-3 (MSW Wells Off)	VEW-1-081721-P-A	8/17/2021	1	Summa Canister	11:36	11:43	0:07	-30.0	-5.0
	VEW-123-102821-P-A	10/28/2021	6	Summa Canister	14:20	15:08	0:48	-27.5	-9.1
	VEW-1-111022	11/10/2022	6	Summa Canister	15:02	15:48	0:46	-24.5	-5.0
	VEW-123-062223-P-A	6/22/2023	6	Summa Canister	13:10	13:48	0:38	-27.0	-5.0
	VEW-123-092623-P-A	9/26/2023	6	Summa Canister	8:35	9:15	0:40	-26.0	-5.0
Influent From VEW Wells VEW-4 through VEW-6 (MSW Wells Off)	VEW-2-081721-P-A	8/17/2021	1	Summa Canister	11:48	11:54	0:06	-28.5	-5.0
	VEW-456-102821-P-A	10/28/2021	6	Summa Canister	15:50	16:24	0:34	-28.5	-8.1
	VEW-2-111022	11/10/2022	6	Summa Canister	15:03	15:40	0:37	-26.7	-5.0
	VEW-456-062223-P-A	6/22/2023	6	Summa Canister	12:17	13:41	1:24	-26.0	-5.0
	VEW-456-092623-P-A	9/26/2023	6	Summa Canister	12:40	13:17	0:37	-26.0	-5.0
Influent From VEW Wells VEW-7 through VEW-9 (MSW Wells Off)	VEW-3-081721-P-A	8/17/2021	1	Summa Canister	11:58	12:03	0:05	-25.0	-5.0
	VEW-789-102821-P-A	10/28/2021	6	Summa Canister	15:50	16:24	0:34	-28.6	-9.0
	VEW-3-111022	11/10/2022	6	Summa Canister	15:04	15:37	0:33	-25.0	-5.0
	VEW-789-062223-P-A	6/22/2023	6	Summa Canister	12:17	13:42	1:25	-25.0	-5.0
	VEW-789-092623-P-A	9/26/2023	6	Summa Canister	13:24	14:10	0:46	-25.0	-5.0
Individual VEW Wells									
VEW-01	VEW-01-PERF-060724	6/7/2024	1	Summa Canister	10:11	10:16	0:05	-29.2	-5.0
VEW-02	VEW-02-PERF-060724	6/7/2024	1	Summa Canister	9:57	10:02	0:05	-27.5	-5.0
VEW-03	VEW-03-PERF-060724	6/7/2024	1	Summa Canister	9:44	9:49	0:05	-30+	-5.0
VEW-04	VEW-04-PERF-060724	6/7/2024	1	Summa Canister	10:28	10:33	0:05	-29.5	-4.5
VEW-05	VEW-05-PERF-060724	6/7/2024	1	Summa Canister	10:44	10:49	0:05	-27.5	-4.0
VEW-06	VEW-06-PERF-060724	6/7/2024	1	Summa Canister	11:00	11:05	0:05	-30.0	-5.0
VEW-07	VEW-07-PERF-060724	6/7/2024	1	Summa Canister	11:42	11:47	0:05	-28.0	-5.0
VEW-08	VEW-08-PERF-060724	6/7/2024	1	Summa Canister	11:29	11:34	0:05	-29.0	-5.0
VEW-09	VEW-09-PERF-060724	6/7/2024	1	Summa Canister	11:16	11:21	0:05	-29.0	-4.0

**Table 1
Air Sampling Parameters
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001**

Sample Location	Sample Identification	Sample Date	Sample Volume (liters)	Sampling Device	Sample Start Time	Sample End Time	Sample Duration (minutes)	Initial Pressure (inches of mercury) ¹	Final Pressure (inches of mercury) ²
Breakthrough Monitoring									
Downstream from First Carbon Filter	ECF1E-121520-P-A	12/15/2020	1	Tedlar Bag	9:45	N/A	N/A	N/A	N/A
	ECF1E-033121-P-A	3/31/2021	1	Tedlar Bag	9:05	N/A	N/A	N/A	N/A
	ECF1E-062321-P-A	6/23/2021	1	Tedlar Bag	12:50	N/A	N/A	N/A	N/A
	ECF1E-102821-P-A	10/28/2021	1	Tedlar Bag	16:50	N/A	N/A	N/A	N/A
	ECF1E-032922-P-A	3/29/2022	1	Tedlar Bag	8:16	N/A	N/A	N/A	N/A
	MID-CARBON-062223	6/22/2023	1	Tedlar Bag	13:55	N/A	N/A	N/A	N/A
	ECF1E-092723-P-A	9/27/2023	1	Tedlar Bag	8:26	N/A	N/A	N/A	N/A
	ECF1E-120524-P-A	12/5/2023	1	Tedlar Bag	10:06	N/A	N/A	N/A	N/A
	ECFIE-040324-P-A	4/3/2024	1	Tedlar Bag	10:30	N/A	N/A	N/A	N/A
	ECF1E-091724-P-A	9/17/2024	1	Tedlar Bag	15:15	N/A	N/A	N/A	N/A
Effluent Monitoring									
Downstream of All Carbon Filters	AAE-121520-P-A	12/15/2020	1	Tedlar Bag	9:50	N/A	N/A	N/A	N/A
	AAE-033121-P-A	3/31/2021	1	Tedlar Bag	9:00	N/A	N/A	N/A	N/A
	AAE-062321-P-A	6/23/2021	1	Tedlar Bag	12:52	N/A	N/A	N/A	N/A
	AAE-102121-P-A	10/28/2021	1	Tedlar Bag	16:52	N/A	N/A	N/A	N/A
	AAE-032922-P-A	3/29/2022	1	Tedlar Bag	8:17	N/A	N/A	N/A	N/A
	Carbon-EFFLUENT-111022	11/10/2022	1	Tedlar Bag	16:20	N/A	N/A	N/A	N/A
	POST-CARBON-062223	6/22/2023	1	Tedlar Bag	13:56	N/A	N/A	N/A	N/A
	AAE-092723-P-A	9/27/2023	1	Tedlar Bag	8:37	N/A	N/A	N/A	N/A
	AAE-120524-P-A	12/5/2023	1	Tedlar Bag	10:07	N/A	N/A	N/A	N/A
	AAE-040324-P-A	4/3/2024	1	Tedlar Bag	10:35	N/A	N/A	N/A	N/A
	AAE-091724-P-A	9/17/2024	1	Tedlar Bag	15:20	N/A	N/A	N/A	N/A

NOTES:

¹Pressure in Summa canister prior to sample collection.

²Final pressure in Summa canister at termination of sample collection.

MSW = microsparge well
N/A = not applicable
VEW = vapor extraction well

Table 2
Summary of Laboratory Analytical Results for IHSs in Effluent Air
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Air Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
Effluent Monitoring: Downstream of All Carbon Filters	ECF1E-092723-P-A	9/27/2023	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.3
	ECF1E-120524-P-A	12/5/2023	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	ECF1E-040324-P-A	4/3/2024	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	ECF1E-091724-P-A	9/17/2024	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Breakthrough Monitoring: Downstream from First Carbon Filter	AAE-092723-P-A	9/27/2023	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.3
	AAE-120524-P-A	12/5/2023	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	AAE-040324-P-A	4/3/2024	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	AAE-091724-P-A	9/17/2024	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

IHSs = indicator hazardous substances

¹Analyzed using U.S. Environmental Protection Agency Method 8260D.

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Genex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MSW Wells									
Influent Upstream of Air Bleed-In Valve	MSW-032015-P-A	3/20/2015	<0.47	<0.90	<0.74	16	<1.0	<1.4	<5.5
Influent Upstream of Air Bleed-In Valve (MSW Wells Off)	MSW-072215-P-A	7/22/2015	<0.45	<0.85	<0.71	17	<0.95	<1.3	<5.3
Influent Upstream of Air Bleed-In Valve	MSW-031416-P-A	3/14/2016	<0.45	<0.85	<0.71	39	<0.95	<1.3	9.0
Influent Upstream of Air Bleed-In Valve	MSW-060916-P-A	6/9/2016	<0.49	<0.94	<0.78	<0.89	<1.0	<1.5	<5.8
Influent Upstream of Air Bleed-In Valve	MSW-072716-P-A	7/27/2016	<0.47	<0.90	<0.74	14	<1.0	<1.4	<5.5
Influent Upstream of Air Bleed-In Valve	MSW-091516-P-A	9/15/2016	<0.46	<0.87	<0.72	9.6	<0.98	<1.4	<5.4
Influent Upstream of Air Bleed-In Valve	MSW-120816-P-A	12/8/2016	<0.40	<0.76	<0.63	5.4	<0.84	<1.2	<4.7
Influent Upstream of Air Bleed-In Valve	MSW-032317-P-A	3/23/2017	<0.41	<0.78	<0.64	4.5	<0.87	<1.2	<4.8
Influent Upstream of Air Bleed-In Valve	MSW-062717-P-A	6/27/2017	<0.45	<0.85	<0.71	<0.81	<0.95	<1.3	<5.3
Influent Upstream of Air Bleed-In Valve	MSW-092017-P-A	9/20/2017	<0.42	<0.80	<0.66	8.5	<0.89	<1.3	<4.9
Influent Upstream of Air Bleed-In Valve	MSW-122117-P-A	12/21/2017	<0.40	<0.77	<0.64	5.2	<0.86	<1.2	<4.7
Influent Upstream of Air Bleed-In Valve	MSW-040418-P-A	4/4/2018	< 0.44	< 0.83	< 0.69	17	< 0.93	< 1.3	< 5.2
Influent Upstream of Air Bleed-In Valve	MSW-062018-P-A	6/20/2018	<0.43	<0.82	<0.68	9.6	<0.92	<1.3	<5.1
Influent Upstream of Air Bleed-In Valve	MSW-092018-P-A	9/20/2018	<0.42	<0.80	<0.66	8.2	<0.89	<1.3	<4.9
Influent Upstream of Air Bleed-In Valve	MSW-121818-P-A	12/18/2018	<0.47	<0.90	<0.75	2.2	<1.0	<1.4	<5.6

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Genex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MSW Wells Continued									
Influent Upstream of Air Bleed-In Valve	MSW-071819-P-A	7/18/2019	0.46	<0.77	<0.64	22	<0.86	<1.2	<4.8
Influent Upstream of Air Bleed-In Valve	MSW-091919-P-A	9/19/2019	<0.40	<0.77	<0.64	12	<0.86	<1.2	ND ²
Influent Upstream of Air Bleed-In Valve	MSW-121219-P-A	12/12/2019	<0.79	0.21	0.13	4.5	<0.34	<0.24	<19 ²
Influent Upstream of Air Bleed-In Valve	MSW-092320-P-A	9/23/2020	<0.89	0.58	<0.14	35	<0.19	<0.27	<21 ²
Influent Upstream of Air Bleed-In Valve	MSW-121420-P-A	12/14/2020	< 0.89	< 0.17	< 0.14	2.9	< 0.19	< 0.27	< 21 ⁵
Influent Upstream of Air Bleed-In Valve	MSW-033121-P-A	3/31/2021	< 0.84	< 0.16	< 0.13	8.5	< 0.18	< 0.25	< 20 ⁵
Influent Upstream of Air Bleed-In Valve	MSW-062321-P-A	6/23/2021	< 1.7	< 0.32	< 0.26	20	< 0.35	< 0.50	< 39 ⁵
Influent Upstream of Air Bleed-In Valve	MSW-102821-P-A	10/28/2021	< 0.42	< 0.80	< 0.67	39	< 0.90	< 1.3	< 5.0
Influent Upstream of Air Bleed-In Valve	MSW-121421-P-A	12/14/2021	< 1.2	< 2.3	< 1.9	7.8	< 2.6	< 3.6	< 14
Influent Upstream of Air Bleed-In Valve	MSW-032922-P-A	3/29/2022	< 0.39	< 0.75	< 0.62	7.5	< 0.83	< 1.2	< 4.6
Influent Upstream of Air Bleed-In Valve	MSW-111022	11/10/2022	< 0.35	0.66 J	< 0.55	20	< 0.74	< 1.0	< 4.1
Influent Upstream of Air Bleed-In Valve	MSW-011023-P-A	1/10/2023	< 0.36	< 0.68	< 0.56	7.8	< 0.76	< 1.1	< 4.2
Influent Upstream of Air Bleed-In Valve	MSW-062223-P-A	6/22/2023	< 0.36	< 0.68	< 0.57	9.0	< 0.76	< 1.1	< 4.2
Influent Upstream of Air Bleed-In Valve	MSW-092623-P-A	9/26/2023	< 0.34	< 0.66	< 0.55	17	< 0.74	< 1.0	< 4.1
Influent Upstream of Air Bleed-In Valve	MSW-120523-P-A	12/5/2023	< 0.35	< 0.67	< 0.56	11	< 0.75	< 1.1	< 4.2
Influent Upstream of Air Bleed-In Valve	MSW-060724-P-A	6/7/2024	< 0.41	< 0.79	< 0.65	5.2	< 0.88	< 1.2	< 4.8
Influent Upstream of Air Bleed-In Valve	MSW-092424-P-A	9/24/2024	< 0.37	< 0.71	< 0.59	11	< 0.80	< 1.1	< 4.4

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
VEW Wells									
Influent From VEW Wells	VEW-032015-P-A	3/20/2015	<0.46	<0.88	<0.73	23	<0.98	<1.4	<5.4
Influent From VEW Wells (MSW Wells Off)	VEW-072215-P-A	7/22/2015	2.2	1.4	<0.79	92	<1.1	<1.5	6.7
Influent From VEW Wells	VEW-031416-P-A	3/14/2016	<0.44	<0.85	<0.70	56	<0.95	<1.3	<5.2
Influent From VEW Wells	VEW-060916-P-A	6/9/2016	<0.48	<0.91	1	<0.86	<1.0	<1.4	<5.6
Influent From VEW Wells	VEW-072716-P-A	7/27/2016	<0.48	<0.93	<0.77	<0.88	<1.0	<1.5	<5.7
Influent From VEW Wells	VEW-091516-P-A	9/15/2016	<0.43	<0.83	<0.69	34	<0.93	<1.3	<5.1
Influent From VEW Wells	VEW-120816-P-A	12/8/2016	<0.41	<0.79	<0.66	13	<0.88	<1.2	<4.9
Influent From VEW Wells	VEW-032317-P-A	3/23/2017	<0.35	<0.66	<0.55	5.5	<0.74	<1.0	<4.1
Influent From VEW Wells	VEW-062717-P-A	6/27/2017	<0.43	<0.82	<0.68	<0.78	<0.92	<1.3	<5.1
Influent From VEW Wells	VEW-092017-P-A	9/20/2017	<0.39	<0.75	<0.62	<0.71	<0.83	<1.2	<4.6
Influent From VEW Wells	VEW-122117-P-A	12/21/2017	<0.41	<0.78	<0.65	6.7	<0.87	<1.2	<4.8
Influent From VEW Wells	VEW-040418-P-A	4/4/2018	<0.46	<0.87	<0.72	31	<0.98	<1.4	<5.4
Influent From VEW Wells	VEW-062018-P-A	6/20/2018	<0.45	<0.86	<0.72	38	<0.96	<1.4	<5.3
Influent From VEW Wells	VEW-092018-P-A	9/20/2018	<0.42	<0.80	<0.66	29	<0.89	<1.3	<4.9
Influent From VEW Wells	VEW-121818-P-A	12/18/2018	<0.44	<0.85	<0.70	2.1	<0.95	<1.3	<5.2
Influent From VEW Wells	VEW-071819-P-A	7/18/2019	1.2	<0.74	<0.62	43	<0.83	<1.2	<4.6
Influent From VEW Wells	VEW-091919-P-A	9/19/2019	<0.40	<0.76	<0.63	49	<0.84	<1.2	1.1 ^{2,3,4}

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
VEW Wells Continued									
Influent From VEW Wells	VEW-121219-P-A	12/12/2019	<0.79	<0.15	0.15	4.5	<0.34	<0.24	<19 ²
Influent From VEW Wells	VEW-092320-P-A	9/23/2020	<0.87	0.90	<0.14	63	0.19	<0.26	<20 ²
Influent From VEW Wells	VEW-121420-P-A	12/14/2020	< 0.92	< 0.18	< 0.15	< 0.83	< 0.2	< 0.28	< 21 ⁵
Influent From VEW Wells	VEW-033121-P-A	3/31/2021	< 0.92	< 0.18	< 0.15	5.2	< 0.2	< 0.28	< 22 ⁵
Influent From VEW Wells	VEW-062321-P-A	6/23/2021	< 1.6	0.36	< 0.25	32	< 0.33	< 0.47	< 37 ⁵
Influent From VEW Wells	VEW-102821-P-A	10/28/2021	1.1	1.2	< 0.61	100	0.99	< 1.2	6.9
Influent From VEW Wells	VEW-121421-P-A	12/14/2021	< 1.2	< 2.2	< 1.8	16	< 2.5	< 3.5	< 14
Influent From VEW Wells	VEW-032922-P-A	3/29/2022	< 0.39	< 0.75	< 0.62	2.3	< 0.84	< 1.2	< 4.6
Influent From VEW Wells	VEW-OVERALL-111022	11/10/2022	< 0.31	1.5	< 0.49	85	< 0.66	< 0.94	< 3.7
Influent From VEW Wells	VEW-011023-P-A	1/10/2023	< 0.38	< 0.72	< 0.60	26	< 0.81	< 1.1	< 4.5
Influent From VEW Wells	OVERALL-062223-P-A	6/22/2023	< 3.8	< 7.4	< 6.1	19	< 8.2	< 12	< 46
Influent From VEW Wells	VEW-092623-P-A	9/26/2023	0.65	0.78	< 0.57	52	< 0.76	< 1.1	< 4.2
Influent From VEW Wells	VEW-120523-P-A	12/5/2023	< 0.33	< 0.64	< 0.53	30	< 0.71	< 1.0	< 3.9
Influent From VEW Wells	OVERALL-060724-P-A	6/7/2024	< 0.36	< 0.70	< 0.58	5.7	< 0.78	< 1.1	< 4.3
Influent From VEW Wells	VEW-092424-P-A	9/24/2024	< 0.38	< 0.73	< 0.61	39	< 0.82	< 1.2	< 4.5

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
VEW Wells – Individual Piping Runs									
Influent From VEW Wells VEW-1 through VEW-3 (MSW Wells Off)	VEW-123-121815-P-A	12/18/2015	5.2	3.8	<0.74	250	<0.99	<1.4	8.0
	VEW-1-081721-P-A	8/17/2021	<2.2	<0.42	<0.35	58	0.56	<0.66	<52 ⁵
	VEW-123-102821-P-A	10/28/2021	2.3	1.4	<0.71	160	1.6	<0.81	<5.3
	VEW-1-111022	11/10/2022	2.4	1.9	< 0.60	120	< 0.81	< 1.1	< 4.5
	VEW-123-062223-P-A	6/22/2023	1.4	0.75	< 0.62	72	< 0.84	< 1.2	< 4.6
	VEW-123-092623-P-A	9/26/2023	3.2	1.7	< 0.62	140	1.6	< 1.2	< 4.6
Influent From VEW Wells VEW-4 through VEW-6 (MSW Wells Off)	VEW-456-121815-P-A	12/18/2015	6.9	5.4	<0.83	250	<1.1	<1.6	7.2
	VEW-2-081721-P-A	8/17/2021	<1.6	<0.3	<0.25	32	<0.33	<0.47	<36 ⁵
	VEW-456-102821-P-A	10/28/2021	<0.37	1.1	<0.58	99	0.99	<1.1	8.5
	VEW-2-111022	11/10/2022	< 0.34	1.7	< 0.54	82	< 0.73	< 1.0	5.6
	VEW-456-062223-P-A	6/22/2023	1.1	0.84	< 0.61	58	< 0.82	< 1.2	< 4.6
	VEW-456-092623-P-A	9/26/2023	1.8	1.5	< 0.58	80	0.87	< 1.1	< 4.3
Influent From VEW Wells VEW-7 through VEW-9 (MSW Wells Off)	VEW-789-121815-P-A	12/15/2015	0.88	1.2	<0.74	100	<1.0	<1.4	6.9
	VEW-3-081721-P-A	8/17/2021	<1.4	<0.27	<0.22	14	<0.3	<0.42	<33 ⁵
	VEW-789-102821-P-A	10/28/2021	<0.39	0.82	<0.62	72	<0.83	<1.2	<4.6
	VEW-3-111022	11/10/2022	< 0.36	< 0.68	< 0.56	36	< 0.76	< 1.1	< 4.2
	VEW-789-062223-P-A	6/22/2023	< 0.47	< 0.90	< 0.74	33	< 1.0	< 1.4	< 5.5
	VEW-789-092623-P-A	9/26/2023	< 0.37	< 0.71	< 0.59	38	< 0.80	< 1.1	< 4.4

Table 3
Summary of Laboratory Analytical Results for IHSs in SVE Influent Air
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹						
			Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
Individual VEW Wells									
VEW-1	VEW-01-PERF-060724	6/7/2024	---	---	---	21	---	---	---
VEW-2	VEW-02-PERF-060724	6/7/2024	---	---	---	19	---	---	---
VEW-3	VEW-03-PERF-060724	6/7/2024	---	---	---	6.7	---	---	---
VEW-4	VEW-04-PERF-060724	6/7/2024	---	---	---	< 1.3	---	---	---
VEW-5	VEW-05-PERF-060724	6/7/2024	---	---	---	1.5	---	---	---
VEW-6	VEW-06-PERF-060724	6/7/2024	---	---	---	3.7	---	---	---
VEW-7	VEW-07-PERF-060724	6/7/2024	---	---	---	2.0	---	---	---
VEW-8	VEW-08-PERF-060724	6/7/2024	---	---	---	1.8	---	---	---
VEW-9	VEW-09-PERF-060724	6/7/2024	---	---	---	3.8	---	---	---

NOTES:

Results in **bold** denote concentrations detected exceeding the laboratory reporting limit.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

¹Analyzed by U.S. Environmental Protection Agency Method TO-15 GC/MS.

²Tentatively identified compound.

³The identification is based on presumption.

⁴Estimated.

⁵The reported concentration was generated from a library search.

--- = not analyzed

IHSs = indicator hazardous substances

J = result is an estimate

MS/SVE = microsparge/soil vapor extraction

MSW = microsparge well

ND = not detected

SVE = soil vapor extraction

VEW = vapor extraction well

Table 4
Summary of MS/SVE System 1,2-DCP Recovered February 2016 to September 2024
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Airflow Rate (scfm)	1,2-Dichloropropane Analytical Results (micrograms per cubic meter) ¹	Recovery Rate (milligrams per minute) ²	Amount Recovered Between Events (pounds)	Cumulative Amount Recovered (pounds)
MSW Wells							
Influent Upstream of Air Bleed-In Valve	__3	2/10/2016	81.47	__3	0.090	__3	__3
	MSW-031416-P-A	3/14/2016	70.55	39	0.078	0.0088	0.0088
	MSW-060916-P-A	6/9/2016	119.92	<0.89	0.0015	0.0110	0.0198
	MSW-072716-P-A	7/27/2016	106.75	14	0.042	0.0033	0.0231
	MSW-091516-P-A	9/15/2016	129.28	9.6	0.035	0.0061	0.029
	MSW-120816-P-A	12/8/2016	109.51	5.4	0.017	0.0069	0.036
	MSW-032317-P-A	3/23/2017	128.81	4.5	0.016	0.0055	0.042
	MSW-062717-P-A	6/27/2017	128.81	<0.81	0.0015	0.0027	0.044
	MSW-092017-P-A	9/20/2017	128.81	8.5	0.031	0.0044	0.049
	MSW-122117-P-A	12/21/2017	112.79	5.2	0.017	0.0069	0.056
	__4	2/1/2018	112.79	__4	0.017	0.0022	0.058
	__5	4/2/2018	__5	__5	__5	__5	0.058
	MSW-040418-P-A	4/4/2018	101.43	17	0.049	0.0002	0.058
	MSW-062018-P-A	6/20/2018	84.79	9.6	0.023	0.0088	0.067
	MSW-092018-P-A	9/20/2018	94.07	8.2	0.022	0.0065	0.074
	MSW-121818-P-A	12/18/2018	90.47	2.2	0.006	0.0039	0.077
	__6	1/31/2019	90.47	__6	0.006	0.0008	0.078
	MSW-071819-P-A	7/18/2019	91.08	22	0.057	__7	0.078
	MSW-091919-P-A	9/19/2019	119.92	12	0.041	0.0097	0.088
	MSW-121219-P-A	12/12/2019	119.92	4.5	0.015	0.0075	0.095
	__8	5/19/2020	__8	__8	0.015	0.0077	0.103
	MSW-092320-P-A	9/23/2020	138.36	35	0.137	__9	0.103
	MSW-121420-P-A	12/14/2020	166.3	2.9	0.014	0.0196	0.123
	MSW-033121-P-A	3/31/2021	96.97	8.5	0.023	0.0062	0.129
	MSW-062321-P-A ¹⁰	6/23/2021	141.11	20	0.080	__10	0.129
	__11	8/17/2021	141.11	__11	0.080	0.0090	0.138
	MSW-121421-P-A	12/14/2021	132.53	7.8	0.029	0.0207	0.159
	MSW-032922-P-A	3/29/2022	132.53	7.5	0.028	0.0095	0.168
	__12	6/13/2022	132.53	__12	0.028	0.0068	0.175
	MSW-111022	11/10/2022	99.15	20	0.05615	__13	0.175
	__14	12/31/2022	__14	__14	0.05615	0.0057	0.181
	MSW-011023-P-A	1/10/2023	66.22	7.8	0.01463	__15	0.181
MSW-062223-P-A	6/22/2023	102.51	9.0	0.02612	__16	0.181	
__17	7/20/2023	__17	__17	0.02612	0.0023	0.183	
MSW-092623-P-A	9/26/2023	128.81	17	0.06201	__18	0.183	
MSW-120523-P-A	12/8/2023	112.79	11	0.03513	__19	0.183	
__20	5/22/2024	99.78	__20	0.01469	0.0174	0.201	
MSW-060724-P-A	6/7/2024	49.30	5.2	0.00726	0.0011	0.202	
__21	7/10/2024	__21	__21	0.00726	0.0004	0.202	
__22	9/10/2024	__22	__22	__22	__22	0.202	
MSW-092424-P-A	9/24/2024	117.59	11	0.0366	0.0010	0.203	

Table 4
Summary of MS/SVE System 1,2-DCP Recovered February 2016 to September 2024
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Sample Location	Sample Identification	Sample Date	Airflow Rate (scfm)	1,2-Dichloropropane Analytical Results (micrograms per cubic meter) ¹	Recovery Rate (milligrams per minute) ²	Amount Recovered Between Events (pounds)	Cumulative Amount Recovered (pounds)
VEW Wells							
Influent From VEW Wells	— ³	2/10/2016	32.43	— ³	0.051	— ³	— ³
	VEW-031416-P-A	3/14/2016	21.40	56	0.0339	0.0045	0.0045
	VEW-060916-P-A	6/9/2016	25.70	<0.86	0.00031	0.0047	0.0092
	VEW-072716-P-A	7/27/2016	19.45	<0.88	0.00024	0.000042	0.0092
	VEW-091516-P-A	9/15/2016	36.35	34	0.035	0.0028	0.0120
	VEW-120816-P-A	12/8/2016	38.46	13	0.014	0.0066	0.019
	VEW-032317-P-A	3/23/2017	26.80	5.5	0.0042	0.0031	0.022
	VEW-062717-P-A	6/27/2017	25.10	<0.78	0.00028	0.0007	0.022
	VEW-092017-P-A	9/20/2017	25.10	<0.71	0.00025	0.0001	0.022
	VEW-122117-P-A	12/21/2017	43.19	6.7	0.00819	0.0012	0.024
	— ⁴	2/1/2018	43.19	— ⁴	0.00819	0.0011	0.025
	— ⁵	4/2/2018	— ⁵	— ⁵	— ⁵	— ⁵	0.025
	VEW-040418-P-A	4/4/2018	34.58	31	0.03036	0.0001	0.025
	VEW-062018-P-A	6/20/2018	31.17	38	0.03354	0.0077	0.033
	VEW-092018-P-A	9/20/2018	45.10	29	0.03704	0.0104	0.043
	VEW-121818-P-A	12/18/2018	45.17	2.1	0.00269	0.0056	0.049
	— ⁶	1/31/2019	45.17	— ⁶	0.00269	0.0004	0.049
	VEW-071819-P-A	7/18/2019	35.78	43	0.04357	— ⁷	0.049
	VEW-091919-P-A	9/19/2019	36.98	49	0.05131	0.0095	0.058
	VEW-121219-P-A	12/12/2019	36.98	4.5	0.00471	0.0075	0.066
	— ⁸	5/19/2020	— ⁸	— ⁸	0.00471	0.0024	0.068
	VEW-092320-P-A	9/23/2020	41.92	63	0.07478	— ⁹	0.068
	VEW-121420-P-A	12/14/2020	53.60	<0.83	0.00063	0.0098	0.078
	VEW-033121-P-A	3/31/2021	37.92	5.2	0.00558	0.0010	0.079
	VEW-062321-P-A ¹⁰	6/23/2021	39.28	32	0.03559	— ¹⁰	0.079
	— ¹¹	8/17/2021	39.28	— ¹¹	0.03559	0.0062	0.085
	VEW-121421-P-A	12/14/2021	41.94	16	0.01900	0.0103	0.096
	VEW-032922-P-A	3/29/2022	41.94	2.3	0.00273	0.0036	0.099
	— ¹²	6/13/2022	41.94	— ¹²	0.00273	0.0007	0.100
	VEW-OVERALL-111022	11/10/2022	39.78	85	0.09575	— ¹³	0.100
— ¹⁴	12/31/2022	— ¹⁴	— ¹⁴	0.09575	0.0098	0.110	
VEW-011023-P-A	1/10/2023	36.98	26	0.02723	— ¹⁵	0.110	
OVERALL-062223-P-A	6/22/2023	47.10	19	0.02534	— ¹⁶	0.110	
— ¹⁷	7/20/2023	— ¹⁷	— ¹⁷	0.02534	0.0022	0.112	
VEW-092623-P-A	9/26/2023	53.00	52	0.07804	— ¹⁸	0.112	
VEW-120523-P-A	12/8/2023	52.60	30	0.04468	— ¹⁹	0.112	
— ²⁰	5/22/2024	43.51	— ²⁰	0.00702	0.0037	0.116	
OVERALL-060724-P-A	6/7/2024	39.70	5.7	0.00641	0.0003	0.116	
— ²¹	7/10/2024	— ²¹	— ²¹	0.00641	0.0007	0.117	
— ²²	9/10/2024	— ²²	— ²²	— ²²	— ²²	0.117	
VEW-092424-P-A	9/24/2024	43.90	39	0.0485	0.0013	0.118	
TOTAL						0.321	

NOTES:

Results in **bold** denote concentrations exceeding laboratory reporting limit.

— denotes not applicable.

< denotes analyte not detected at or exceeding the reporting limit listed.

¹Analyzed by U.S. Environmental Protection Agency Method TO-15 GC/MS.

²Where analyte was not detected, half the detection limit was used for calculation.

³Analytical results from the March 14, 2016 sampling event were used for calculation.

⁴Analytical results from the December 21, 2017 sampling event were used for calculation; the MS/SVE system was shut down on February 1, 2018.

⁵MS/SVE system was restarted on April 2, 2018.

⁶Analytical results from the December 18, 2018 sampling event were used for calculation; the MS/SVE system was shut down on January 31, 2019.

⁷MS/SVE system was restarted on July 18, 2019.

⁸Analytical results from the December 12, 2019 sampling event were used for calculation; the MS/SVE system was shut down on May 19, 2020.

⁹MS/SVE system was restarted on September 21, 2020.

¹⁰MS/SVE system not operating upon arrival for sampling event on June 21, 2021, recovery rate and amount of 1,2-DCP recovered not calculated.

¹¹Analytical results from the June 23, 2021 sampling event were used for calculation; the MS/SVE system operated from June 23 to August 17, 2021.

¹²Analytical results and airflow rate from the March 29, 2022 sampling event were used for calculation; the MS/SVE system operated from March 29 to June 13, 2022.

¹³MS/SVE system restarted on November 10, 2022 after the planned shutdown period between June 13 and November 10, 2022.

1,2-DCP = 1,2-dichloropropane

MS/SVE = microsparge/soil vapor extraction

scfm = standard cubic feet per minute

VEW = vapor extraction well

Table 4
Summary of MS/SVE System 1,2-DCP Recovered February 2016 to September 2024
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

¹⁴MS/SVE system shutdown sometime the end of December 2022 or first week of January 2023.

¹⁵Recovery not calculated, used average of the recovery rate calculated for the November 10, 2022 and January 10, 2023 sampling events for calculation of recovered amount between November 10 and December 31, 2022.

¹⁶MS/SVE system restarted on June 22, 2023.

¹⁷MS/SVE system shutdown July 20, 2023.

¹⁸MS/SVE system restarted on September 26, 2023.

¹⁹Recovery not calculated, MS/SVE system shutdown sometime between September 26 and December 1, 2023.

²⁰MS/SVE system restarted on May 22, 2024 with repaired compressor, system was operating with only the blower before installation and restart. Analytical results from June 7, 2024 sampling event used for calculation of recovery rate and amount recovered.

²¹MS/SVE system shutdown July 10, 2024.

²²MS/SVE system restarted on September 10, 2024.

Table 5
Groundwater and Surface Water Elevation Data
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well or Measuring Point Identification (total depth in feet) ¹	Screened Interval (feet) ²	Sample Date	Elevation Top of Well Casing or Measuring Point (feet) ³	Depth to Water (feet) ¹	Groundwater or Surface Water Elevation (feet) ³
MW-1 (26.31)	20-25	6/26/2023	1,303.29	21.22	1,282.07
		9/25/2023		20.36	1,282.93
		12/4/2023		20.47	1,282.82
		4/1/2024		21.89	1,281.40
		9/16/2024		NM	NM
MW-2 (26.00)	20-25	6/26/2023	1,303.46	21.58	1,281.88
		9/25/2023		20.69	1,282.77
		12/4/2023		20.87	1,282.59
		4/1/2024		22.30	1,281.16
		9/16/2024		NM	NM
MW-3 (27.14)	20-25	9/25/2023	1,302.76	20.06	1,282.70
		12/4/2023		20.27	1,282.49
		4/1/2024		21.66	1,281.10
		9/16/2024		20.02	1,282.74
MW-5 (24.38)	20-25	9/25/2023	1,299.53	16.79	1,282.74
		12/4/2023		16.99	1,282.54
		4/1/2024		18.32	1,281.21
		9/16/2024		17.92	1,281.61
MW-6 (24.36)	20-25	9/25/2023	1,299.75	17.34	1,282.41
		12/4/2023		17.64	1,282.11
		4/1/2024		19.01	1,280.74
		9/16/2024		18.50	1,281.25
MW-7 (23.92)	20-25	9/25/2023	1,299.76	17.10	1,282.66
		12/4/2023		17.33	1,282.43
		4/1/2024		18.73	1,281.03
		9/16/2024		18.25	1,281.51
MW-8 (60.31)	55-60	6/26/2023	1,303.82	22.03	1,281.79
		9/25/2023		21.13	1,282.69
		12/4/2023		21.33	1,282.49
		4/1/2024		23.71	1,280.11
		9/16/2024		NM	NM
MW-9 (42.70)	35-40	6/26/2023	1,302.83	20.92	1,281.91
		9/25/2023		20.01	1,282.82
		12/4/2023		20.19	1,282.64
		4/1/2024		21.55	1,281.28
		9/16/2024		NM	NM
MW-11 (25.29)	20-25	6/26/2023	1,300.97	19.52	1,281.45
		9/25/2023		18.66	1,282.31
		12/4/2023		18.99	1,281.98
		4/1/2024		20.35	1,280.62
		9/16/2024		NM	NM

Table 5
Groundwater and Surface Water Elevation Data
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well or Measuring Point Identification (total depth in feet)¹	Screened Interval (feet)²	Sample Date	Elevation Top of Well Casing or Measuring Point (feet)³	Depth to Water (feet)¹	Groundwater or Surface Water Elevation (feet)³
MW-12 (24.71)	20-25	6/26/2023	1,297.41	16.30	1,281.11
		9/25/2023		15.45	1,281.96
		12/4/2023		15.95	1,281.46
		4/1/2024		17.36	1,280.05
		9/16/2024		NM	NM
MW-13 (44.85)	40-45	9/25/2023	1,299.34	16.95	1,282.39
		12/4/2023		17.27	1,282.07
		4/1/2024		18.18	1,281.16
		9/16/2024		18.10	1,281.24
MW-15 (43.20)	35-45	6/26/2023	1,300.71	19.45	1,281.26
		9/25/2023		18.62	1,282.09
		12/4/2023		19.06	1,281.65
		4/1/2024		20.41	1,280.30
		9/16/2024		NM	NM
MW-16 (45.20)	35-45	9/25/2023	1,300.08	17.34	1,282.74
		12/4/2023		17.56	1,282.52
		4/1/2024		19.86	1,280.22
		9/16/2024		18.52	1,281.56
MW-17 (45.18)	35-45	9/25/2023	1,297.55	15.59	1,281.96
		12/4/2023		16.08	1,281.47
		4/1/2024		17.50	1,280.05
		9/16/2024		16.64	1,280.91
MW-20 (26.80)	17-27	9/25/2023	1,296.97	15.42	1,281.55
		12/4/2023		16.10	1,280.87
		4/1/2024		17.50	1,279.47
		9/16/2024		16.32	1,280.65
MW-21 (25.15)	22-27	6/26/2023	1,296.28	15.50	1,280.78
		9/25/2023		14.74	1,281.54
		12/4/2023		15.35	1,280.93
		4/1/2024		16.77	1,279.51
		9/16/2024		NM	NM
MW-24 (23.84)	19-24 ⁴	9/25/2023	1,300.59	17.79	1,282.80
		12/4/2023		17.97	1,282.62
		4/1/2024		19.40	1,281.19
		9/16/2024		18.81	1,281.78
MW-25 (47.40)	43-48	9/25/2023	1,297.31	15.83	1,281.48
		12/4/2023		16.54	1,280.77
		4/1/2024		17.91	1,279.40
		9/16/2024		16.76	1,280.55
MW-26 (26.75)	23-28	9/25/2023	1,297.19	15.64	1,281.55
		12/4/2023		16.31	1,280.88
		4/1/2024		17.71	1,279.48
		9/16/2024		16.55	1,280.64

Table 5
Groundwater and Surface Water Elevation Data
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well or Measuring Point Identification (total depth in feet) ¹	Screened Interval (feet) ²	Sample Date	Elevation Top of Well Casing or Measuring Point (feet) ³	Depth to Water (feet) ¹	Groundwater or Surface Water Elevation (feet) ³
MW-28 (27.17)	18-28	9/25/2023	1,296.32	14.42	1,281.90
		12/4/2023		14.95	1,281.37
		4/1/2024		16.40	1,279.92
		9/16/2024		15.48	1,280.84
MW-29 (26.87)	23-28	9/25/2023	1,295.98	14.62	1,281.36
		12/4/2023		15.46	1,280.52
		4/1/2024		16.81	1,279.17
		9/16/2024		15.41	1,280.57
MW-30 (27.66)	18-28	9/25/2023	1,293.71	12.80	1,280.91
		12/4/2023		13.76	1,279.95
		4/1/2024		15.07	1,278.64
		9/16/2024		13.52	1,280.19
MW-31 (43.26)	33-43	9/25/2023	1,293.72	12.61	1,281.11
		12/4/2023		13.57	1,280.15
		4/1/2024		14.90	1,278.82
		9/16/2024		13.33	1,280.39
MW-32 (26.28)	17-27	6/26/2023	1,296.46	15.83	1,280.63
		9/25/2023		15.30	1,281.16
		12/4/2023		16.14	1,280.32
		4/1/2024		17.51	1,278.95
		9/16/2024		NM	NM
MW-33 (41.80)	32.5-42.5	6/26/2023	1,296.50	15.83	1,280.67
		9/25/2023		15.30	1,281.20
		12/4/2023		16.16	1,280.34
		4/1/2024		17.50	1,279.00
		9/16/2024		NM	NM
MW-34 (43.20)	34-44	6/26/2023	1,292.18	12.63	1,279.55
		9/25/2023		12.01	1,280.17
		12/4/2023		13.29	1,278.89
		4/1/2024		14.41	1,277.77
		9/16/2024		NM	NM
MW-35 (24.72)	15-25	6/26/2023	1,292.33	12.52	1,279.81
		9/25/2023		12.14	1,280.19
		12/4/2023		13.50	1,278.83
		4/1/2024		14.59	1,277.74
		9/16/2024		NM	NM
MW-36 (24.67)	15-25	9/25/2023	1,291.31	11.91	1,279.40
		12/4/2023		13.41	1,277.90
		4/1/2024		14.39	1,276.92
		9/16/2024		12.45	1,278.86

Table 5
Groundwater and Surface Water Elevation Data
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well or Measuring Point Identification (total depth in feet) ¹	Screened Interval (feet) ²	Sample Date	Elevation Top of Well Casing or Measuring Point (feet) ³	Depth to Water (feet) ¹	Groundwater or Surface Water Elevation (feet) ³
MW-37 (24.54)	15-25	6/26/2023	1,290.70	11.80	1,278.90
		9/25/2023		11.49	1,279.21
		12/4/2023		13.15	1,277.55
		4/1/2024		14.02	1,276.68
		9/16/2024		NM	NM
MW-38 (24.51)	15-25	9/25/2023	1,290.30	11.66	1,278.64
		12/4/2023		13.56	1,276.74
		4/1/2024		14.20	1,276.10
		9/16/2024		12.00	1,278.30
MW-39 (47.42)	37-47	9/25/2023	1,290.34	11.37	1,278.97
		12/4/2023		13.35	1,276.99
		4/1/2024		13.94	1,276.40
		9/16/2024		11.74	1,278.60
MW-40 (25.18)	15-25	6/26/2023	1,289.95	11.22	1,278.73
		9/25/2023		11.06	1,278.89
		12/4/2023		13.19	1,276.76
		4/1/2024		13.71	1,276.24
		9/16/2024		NM	NM
MW-41 (25.27)	15-25	6/26/2023	1,286.25	7.37	1,278.88
		9/25/2023		7.91	1,278.34
		12/4/2023		11.79	1,274.46
		4/1/2024		11.67	1,274.58
		9/16/2024		NM	NM
MW-42 (25.17)	15-25	9/25/2023	1,285.38	7.83	1,277.55
		12/4/2023		11.08	1,274.30
		4/1/2024		10.21	1,275.17
		9/16/2024		7.70	1,277.68
MW-43 (24.99)	15-25	9/25/2023	1,286.11	9.07	1,277.04
		12/4/2023		11.92	1,274.19
		4/1/2024		11.69	1,274.42
		9/16/2024		9.00	1,277.11
MW-44 (44.93)	35-45	9/25/2023	1,285.39	8.59	1,276.80
		12/4/2023		11.56	1,273.83
		4/1/2024		11.14	1,274.25
		9/16/2024		8.51	1,276.88
MW-45 (24.94)	15-25	9/25/2023	1,293.21	14.82	1,278.39
		12/4/2023		16.88	1,276.33
		4/1/2024		17.43	1,275.78
		9/16/2024		15.07	1,278.14

Table 5
Groundwater and Surface Water Elevation Data
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well or Measuring Point Identification (total depth in feet) ¹	Screened Interval (feet) ²	Sample Date	Elevation Top of Well Casing or Measuring Point (feet) ³	Depth to Water (feet) ¹	Groundwater or Surface Water Elevation (feet) ³
MW-46 (25.09)	15-25	9/25/2023	1,285.99	9.96	1,276.03
		12/4/2023		12.79	1,273.20
		4/1/2024		12.67	1,273.32
		9/16/2024		9.87	1,276.12
West Canal	NA	9/25/2023	1,295.86	9.53	1,286.33
		12/4/2023		21.26	1,274.60
		4/1/2024		9.60	1,286.26
		9/16/2024		9.24	1,286.62
West Canal Drainage Ditch	NA	6/26/2023	1,277.80	0.00 ⁵	1277.80
		9/25/2023		0.00 ⁵	1277.80
		12/4/2023		0.00 ⁵	1277.80
		4/1/2024		1.10	1276.70
		9/16/2024		NM	NM

NOTES:

¹In feet below top of well casing.

²In feet below ground surface according to boring logs for each monitoring well.

³Elevation in feet above mean sea level, adjusted to common datum.

⁴Screened interval estimated based on total depth of well. Farallon has not located a well installation log for monitoring well MW-24. The water well report filed with the Washington State Department of Ecology by the driller in 1998 listed a screened interval of 23 to 28 feet below ground surface, which appears to be an error, based on the measured total depth.

⁵Surface water in West Canal drainage ditch at or above top of the culvert.

NA = not applicable

NM = not measured

Table 6
Summary of Laboratory Analytical Results for IHSs in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
		Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MW-1 (shallow)	6/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-2 (shallow)	6/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/4/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/1/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-3 (shallow)	9/28/2023	< 0.20	< 0.20	< 0.20	1.1	< 0.20	< 0.20	0.97
	12/5/2023	< 0.20	< 0.20	< 0.20	0.40	< 0.20	< 0.20	0.79
	4/1/2024	< 0.20	< 0.20	< 0.20	0.49	< 0.20	< 0.20	0.79
	9/16/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.85
MW-5 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-6 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	1.2	< 0.20	< 0.20	0.62
	12/5/2023	< 0.20	< 0.20	< 0.20	1.2	< 0.20	< 0.20	0.63
	4/2/2024	< 0.20	< 0.20	< 0.20	1.1	< 0.20	< 0.20	0.60
	9/17/2024	< 0.20	< 0.20	< 0.20	0.93	< 0.20	< 0.20	0.55
MW-7 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	1.4	< 0.20	< 0.20	0.34
	12/5/2023	< 0.20	< 0.20	< 0.20	1.5	< 0.20	< 0.20	0.32
	4/2/2024	< 0.20	< 0.20	< 0.20	1.5	< 0.20	< 0.20	0.36
	9/17/2024	< 0.20	< 0.20	< 0.20	1.3	< 0.20	< 0.20	0.30
MW-8 (deep)	6/29/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-9 (deep)	6/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/1/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-11 (shallow)	6/29/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
Groundwater Cleanup Levels for the Cenex/Quincy Site²		1³	7.2⁴	1³	1³	1³	1³	1³

Table 6
Summary of Laboratory Analytical Results for IHSs in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
		Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MW-12 (shallow)	6/28/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-13 (deep)	9/27/2023	< 0.20	< 0.20	< 0.20	0.97	< 0.20	< 0.20	0.83
	12/5/2023	< 0.20	< 0.20	< 0.20	0.62	< 0.20	< 0.20	0.45
	4/2/2024	< 0.20	< 0.20	< 0.20	0.64	< 0.20	< 0.20	0.54
	9/17/2024	< 0.20	< 0.20	< 0.20	1.2	< 0.20	< 0.20	1.3
MW-15 (deep)	6/29/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-16 (deep)	9/28/2023	< 0.20	< 0.20	< 0.20	3.1	< 0.20	< 0.20	7.3
	12/5/2023	< 0.20	< 0.20	< 0.20	3.3	< 0.20	< 0.20	2.9
	4/1/2024	< 0.20	< 0.20	< 0.20	1.8	< 0.20	< 0.20	2.2
	9/16/2024	< 0.20	< 0.20	< 0.20	0.90	< 0.20	< 0.20	4.7
MW-17 (deep)	9/27/2023	< 0.20	< 0.20	< 0.20	1.6	< 0.20	< 0.20	1.1
	12/6/2023	< 0.20	< 0.20	< 0.20	1.3	< 0.20	< 0.20	1.0
	4/2/2024	< 0.20	< 0.20	< 0.20	0.83	< 0.20	< 0.20	0.67
	9/17/2024	< 0.20	< 0.20	< 0.20	1.7	< 0.20	< 0.20	1.4
MW-20 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	2.8	< 0.20	0.24	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	4.2	< 0.20	0.38	< 0.20
	4/2/2024	< 0.20	0.31	< 0.20	1.8	< 0.20	0.21	< 0.20
	9/17/2024	< 0.20	0.50	< 0.20	1.2	< 0.20	< 0.20	< 0.20
MW-21	4/3/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-24 (shallow)	9/28/2023	< 0.20	< 0.20	< 0.20	6.0	< 0.20	< 0.20	23
	9/28/2023 ⁵	< 0.20	< 0.20	< 0.20	5.7	< 0.20	< 0.20	22
	12/5/2023	< 0.20	< 0.20	< 0.20	2.5	< 0.20	< 0.20	11
	4/1/2024	< 0.20	< 0.20	< 0.20	4.3	< 0.20	< 0.20	21
	9/16/2024	< 0.20	< 0.20	< 0.20	2.8	< 0.20	< 0.20	11
	9/16/2024 ⁵	< 0.20	< 0.20	< 0.20	3.3	< 0.20	< 0.20	10
MW-25 (deep)	9/27/2023	< 0.20	< 0.20	< 0.20	13	< 0.20	< 0.20	1.1
	9/27/2023 ⁵	< 0.20	< 0.20	< 0.20	13	< 0.20	< 0.20	1.3
	12/6/2023	< 0.20	< 0.20	< 0.20	15	< 0.20	< 0.20	1.3
	12/6/2023 ⁵	< 0.20	< 0.20	< 0.20	13	< 0.20	< 0.20	1.2
	4/2/2024	< 0.20	< 0.20	< 0.20	11	< 0.20	< 0.20	1.4
	4/2/2024 ⁵	< 0.20	< 0.20	< 0.20	10	< 0.20	< 0.20	1.3
	9/17/2024	< 0.20	< 0.20	< 0.20	3.9	< 0.20	< 0.20	0.48
9/17/2024 ⁵	< 0.20	< 0.20	< 0.20	3.9	< 0.20	< 0.20	0.45	
Groundwater Cleanup Levels for the Cenex/Quincy Site²		1³	7.2⁴	1³	1³	1³	1³	1³

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Summary of Laboratory Analytical Results for IHSs in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
		Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MW-26 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	0.92	< 0.20	< 0.20	0.38
	12/6/2023	< 0.20	< 0.20	< 0.20	2.6	< 0.20	< 0.20	0.38
	4/2/2024	< 0.20	< 0.20	< 0.20	1.9	< 0.20	< 0.20	0.45
	9/17/2024	< 0.20	< 0.20	< 0.20	0.32	< 0.20	< 0.20	< 0.20
MW-28 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	8.1	< 0.20	< 0.20	0.21
	12/6/2023	< 0.20	< 0.20	< 0.20	6.2	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	9.5	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	< 0.20	< 0.20	12	< 0.20	< 0.20	0.34
MW-29 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	0.79	< 0.20	< 0.20	< 0.20
	12/7/2023	< 0.20	< 0.20	< 0.20	0.63	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	0.35	< 0.20	0.50	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	0.27	< 0.20	0.44	< 0.20	< 0.20	< 0.20
MW-30 (shallow)	9/28/2023	< 0.20	< 0.20	< 0.20	0.34	< 0.20	< 0.20	< 0.20
	12/7/2023	< 0.20	< 0.20	< 0.20	0.32	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	0.97	< 0.20	< 0.20	0.51
	9/17/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-31 (deep)	9/28/2023	< 0.20	< 0.20	< 0.20	14	< 0.20	< 0.20	1.1
	9/28/2023 ⁵	< 0.20	< 0.20	< 0.20	13	< 0.20	< 0.20	1.3
	12/7/2023	< 0.20	< 0.20	< 0.20	15	< 0.20	< 0.20	0.99
	12/7/2023 ⁵	< 0.20	< 0.20	< 0.20	15	< 0.20	< 0.20	1.2
	4/2/2024	< 0.20	< 0.20	< 0.20	10	< 0.20	< 0.20	1.1
	4/2/2024 ⁵	< 0.20	< 0.20	< 0.20	11	< 0.20	< 0.20	0.88
MW-32 (shallow)	9/17/2024	< 0.20	< 0.20	< 0.20	8.1	< 0.20	< 0.20	0.71
	6/27/2023	< 0.20	0.22	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	0.41	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/7/2023	< 0.20	0.42	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
9/16/2024	Not Sampled							
MW-33 (deep)	6/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/7/2023	< 0.20	0.23	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	0.21	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-34 (deep)	6/27/2023	< 0.20	< 0.20	< 0.20	0.56	< 0.20	< 0.20	0.27
	9/27/2023	< 0.20	< 0.20	< 0.20	0.74	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	0.58	< 0.20	< 0.20	0.22
	4/3/2024	< 0.20	< 0.20	< 0.20	0.38	< 0.20	< 0.20	0.30
	9/16/2024	Not Sampled						
Groundwater Cleanup Levels for the Cenex/Quincy Site²		1³	7.2⁴	1³	1³	1³	1³	1³

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Summary of Laboratory Analytical Results for IHSs in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
		Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MW-35 (shallow)	6/27/2023	< 0.20	1.7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	3.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	0.37	< 0.20	< 0.20	< 0.20
	4/3/2024	< 0.20	< 0.20	< 0.20	0.43	< 0.20	< 0.20	0.21
	9/16/2024	Not Sampled						
MW-36 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	0.67	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-37 (shallow)	6/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-38 (shallow)	9/26/2023	< 0.20	< 0.20	< 0.20	6.3	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	7.2	< 0.20	< 0.20	< 0.20
	12/6/2023 ⁵	< 0.20	< 0.20	< 0.20	6.6	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	5.9	< 0.20	< 0.20	< 0.20
	4/2/2024 ⁵	< 0.20	< 0.20	< 0.20	5.6	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	< 0.20	< 0.20	2.5	< 0.20	< 0.20	< 0.20
MW-39 (deep)	9/26/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	< 0.20	< 0.20	0.77	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	0.31	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-40 (shallow)	6/27/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/26/2023	< 0.20	0.24	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/6/2023	< 0.20	0.34	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	Not Sampled						
MW-41 (shallow)	6/27/2023	< 0.20	< 0.20	< 0.20	2.3	< 0.20	< 0.20	0.97
	9/26/2023	< 0.20	< 0.20	< 0.20	1.6	< 0.20	< 0.20	0.32
	12/6/2023	< 0.20	< 0.20	< 0.20	2.5	< 0.20	< 0.20	1.3
	4/2/2024	< 0.20	< 0.20	0.27	6.0	< 0.20	< 0.20	4.0
	9/16/2024	Not Sampled						
MW-42 (shallow)	9/26/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.35
	12/5/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.49
Groundwater Cleanup Levels for the Cenex/Quincy Site²		1³	7.2⁴	1³	1³	1³	1³	1³

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Summary of Laboratory Analytical Results for IHSs in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Analytical Results (micrograms per liter) ¹						
		Vinyl Chloride	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	1,1,2-Trichloroethane	1,2-Dibromoethane	1,2,3-Trichloropropane
MW-43 (shallow)	9/26/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	3.1	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	0.84	< 0.20	< 0.20	< 0.20
	9/16/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-44 (deep)	9/26/2023	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	0.23	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	9/16/2024	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-45 (shallow)	9/27/2023	< 0.20	< 0.20	< 0.20	0.29	< 0.20	< 0.20	0.24
	12/6/2023	< 0.20	< 0.20	< 0.20	0.34	< 0.20	< 0.20	0.26
	4/2/2024	< 0.20	< 0.20	< 0.20	0.29	< 0.20	< 0.20	< 0.20
	9/17/2024	< 0.20	< 0.20	< 0.20	0.29	< 0.20	< 0.20	0.22
MW-46 (shallow)	9/26/2023	< 0.20	< 0.20	< 0.20	0.83	< 0.20	< 0.20	< 0.20
	12/5/2023	< 0.20	< 0.20	< 0.20	0.24	< 0.20	< 0.20	< 0.20
	4/2/2024	< 0.20	< 0.20	< 0.20	0.31	< 0.20	< 0.20	< 0.20
	9/16/2024	< 0.20	< 0.20	< 0.20	0.20	< 0.20	< 0.20	< 0.20
Groundwater Cleanup Levels for the Cenex/Quincy Site²		1³	7.2⁴	1³	1³	1³	1³	1³

NOTES:

Results in **bold** denote concentrations at or exceeding applicable cleanup levels.
 < denotes analyte not detected at or exceeding the reporting limit listed.

IHSs = indicator hazardous substances
 QA/QC = quality assurance/quality control

¹Analyzed by U.S. Environmental Protection Agency Method 8260D.

²Groundwater cleanup levels established in the *Final Consent Decree and Cleanup Action* Washington State Department of Ecology.

³Cleanup level based on analytical method practical quantitation

⁴Washington State Model Toxics Control Act Cleanup Regulation Cleanup <https://fortress.wa.gov/ecy/clarc/>

⁵QA/QC duplicate sample.

Table 7
Modified Compliance Groundwater Monitoring Schedule
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Screened Interval (feet) ¹	Monitoring Well Designation Deep or Shallow	Plume Location	Monitoring Well Sampling Schedule										
				2024	2025		2026		2027		2028		2029	
				Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)
MW-1	20-25	Shallow	Upgradient	—	—	X	—	—	X	—	—	X	—	—
MW-2	20-25	Shallow	Upgradient	—	—	X	—	—	X	—	—	X	—	—
MW-3	20-25	Shallow	Source	X	X	X	X	X	X	X	X	X	X	X
MW-4	21-26	Shallow	Cross gradient	—	—	—	—	—	—	—	—	—	—	—
MW-5	20-25	Shallow	Source	X	X	X	X	X	X	X	X	X	X	X
MW-6	20-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-7	20-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-8	55-60	Deep	Source	—	—	X	—	—	X	—	—	X	—	—
MW-9	35-40	Deep	Source	—	—	X	—	—	X	—	—	X	—	—
MW-10	20-25	Shallow	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-11	20-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-12	20-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-13	40-45	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-14	35-45	Deep	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-15	35-45	Deep	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-16	35-45	Deep	Source	X	X	X	X	X	X	X	X	X	X	X
MW-17	35-45	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-18	40-45	Deep	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-19	41-46	Deep	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-20	17-27	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-21	22-27	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-22	42-47	Deep	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-23	41.5-46.5	Deep	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-24	19-24 ²	Shallow	Source	X	X	X	X	X	X	X	X	X	X	X
MW-25	43-48	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-26	23-28	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-27	28-48	Shallow	Downgradient	—	—	—	—	—	—	—	—	—	—	—
MW-28	18-28	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-29	23-28	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-30	18-28	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-31	33-43	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-32	17-27	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-33	32.5-42.5	Deep	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-34	34-44	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-35	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-36	15-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-37	15-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—
MW-38	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X
MW-39	37-47	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X

Table 7
Modified Compliance Groundwater Monitoring Schedule
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Screened Interval (feet) ¹	Monitoring Well Designation Deep or Shallow	Plume Location	Monitoring Well Sampling Schedule											
				2024	2025		2026		2027		2028		2029		
				Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	First Quarter (March/April)	Third Quarter (September)	
MW-40	15-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—	
MW-41	15-25	Shallow	Downgradient	—	—	X	—	—	X	—	—	X	—	—	
MW-42	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X	
MW-43	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X	
MW-44	35-45	Deep	Downgradient	X	X	X	X	X	X	X	X	X	X	X	
MW-45	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X	
MW-46	15-25	Shallow	Downgradient	X	X	X	X	X	X	X	X	X	X	X	

NOTES:

¹In feet below ground surface according to boring logs for each monitoring well.

²Screened interval estimated based on total depth of well. Farallon has not located a well installation log for monitoring well MW-24. The water well report filed with the Washington State Department of Ecology by the driller in 1998 listed a screened interval of 23 to 28 feet below ground surface, which appears to be an error, based on the measured total depth.

— = not sampled

X = monitoring well sampled

= green shading indicates monitoring wells sampled semiannually

= purple shading indicates monitoring wells sampled on an 18 month schedule

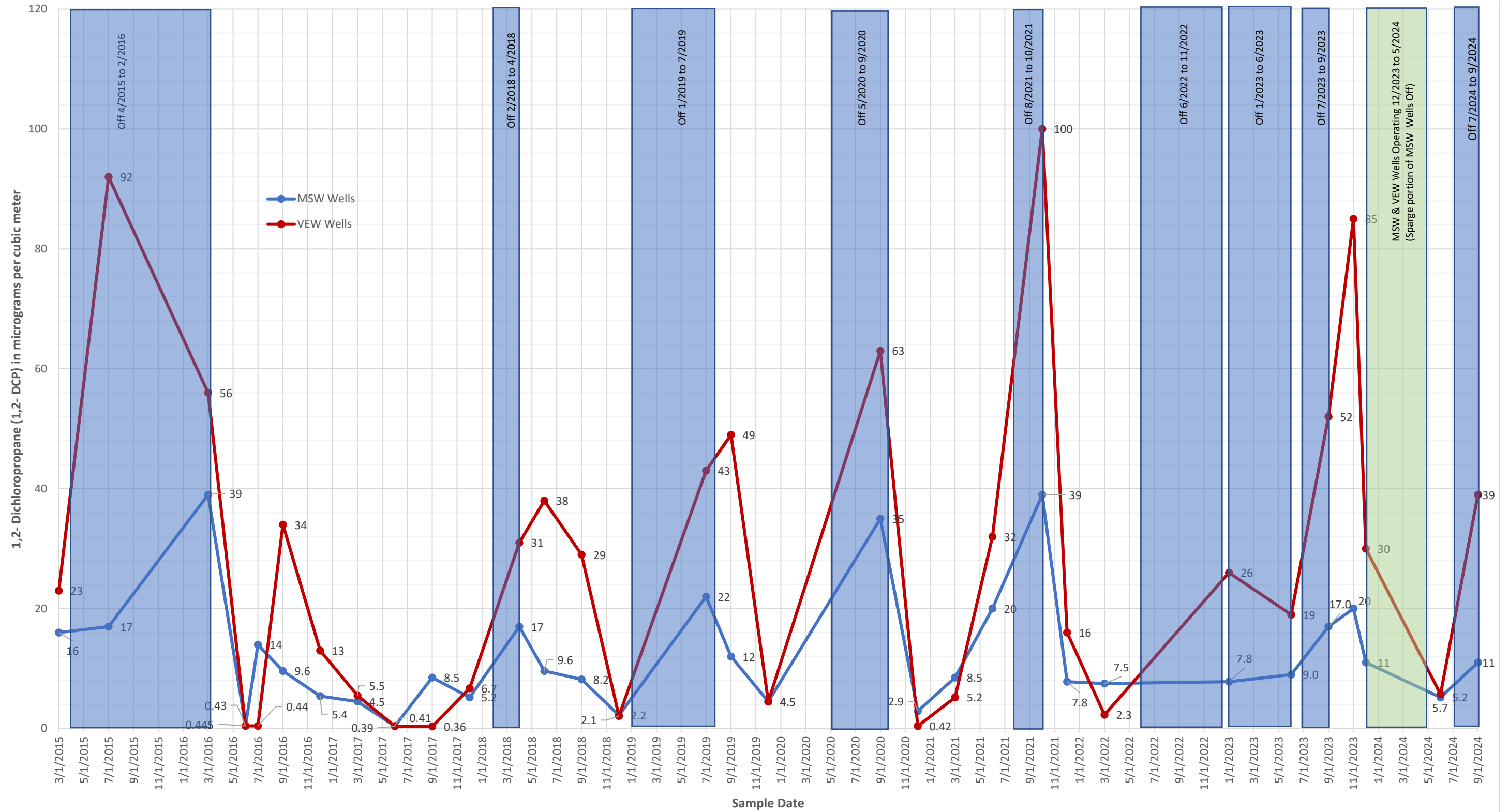
= gray shading indicates monitoring wells not part of the compliance groundwater monitoring program

CHARTS

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

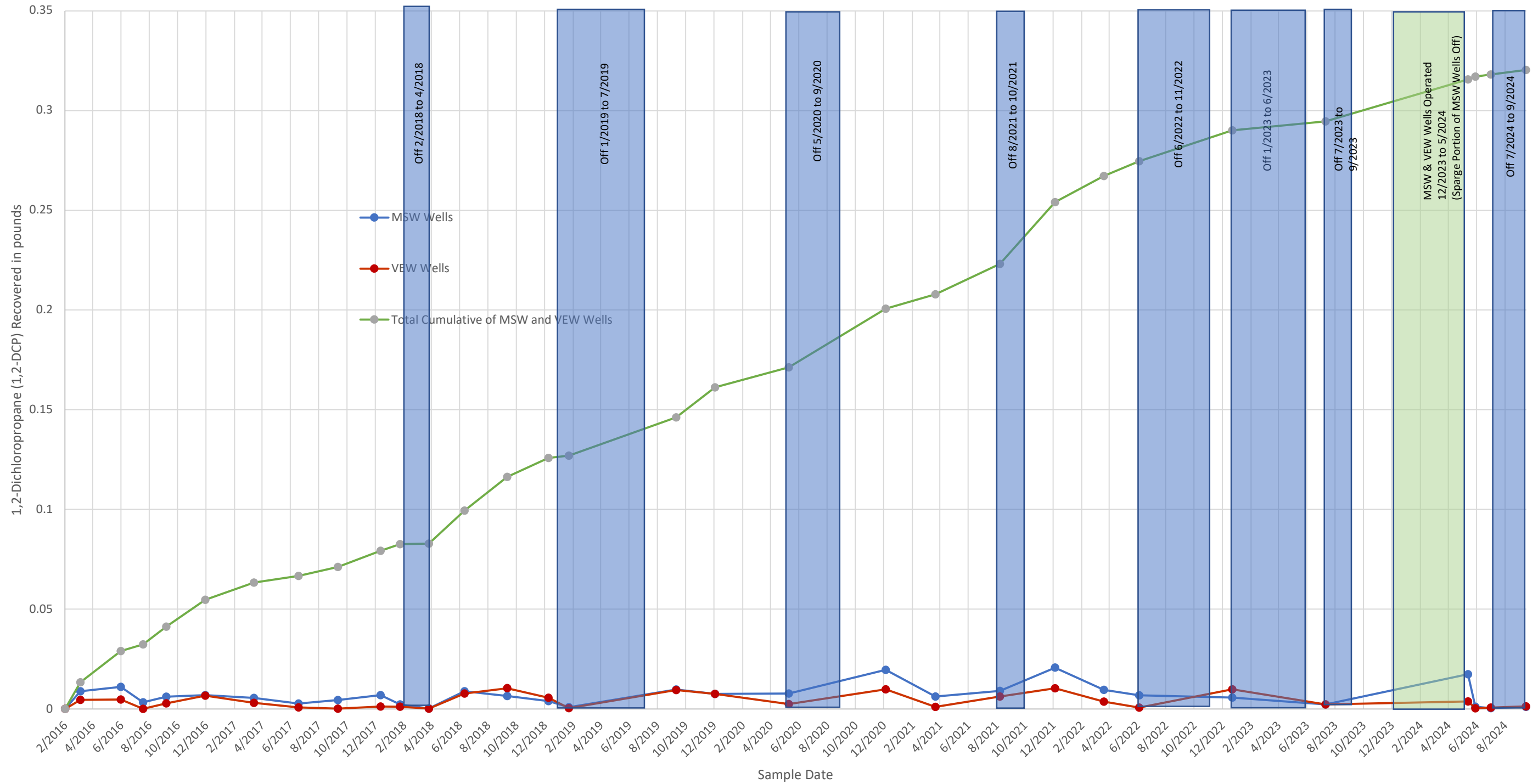
Farallon PN: 301-001

Chart 1
 Summary of Laboratory Analytical Results for 1,2-DCP in SVE Influent Air
 March 2015 to September 2024
 Cenex Harvest State Cooperatives Site
 Quincy, Washington
 Farallon PN: 301-001



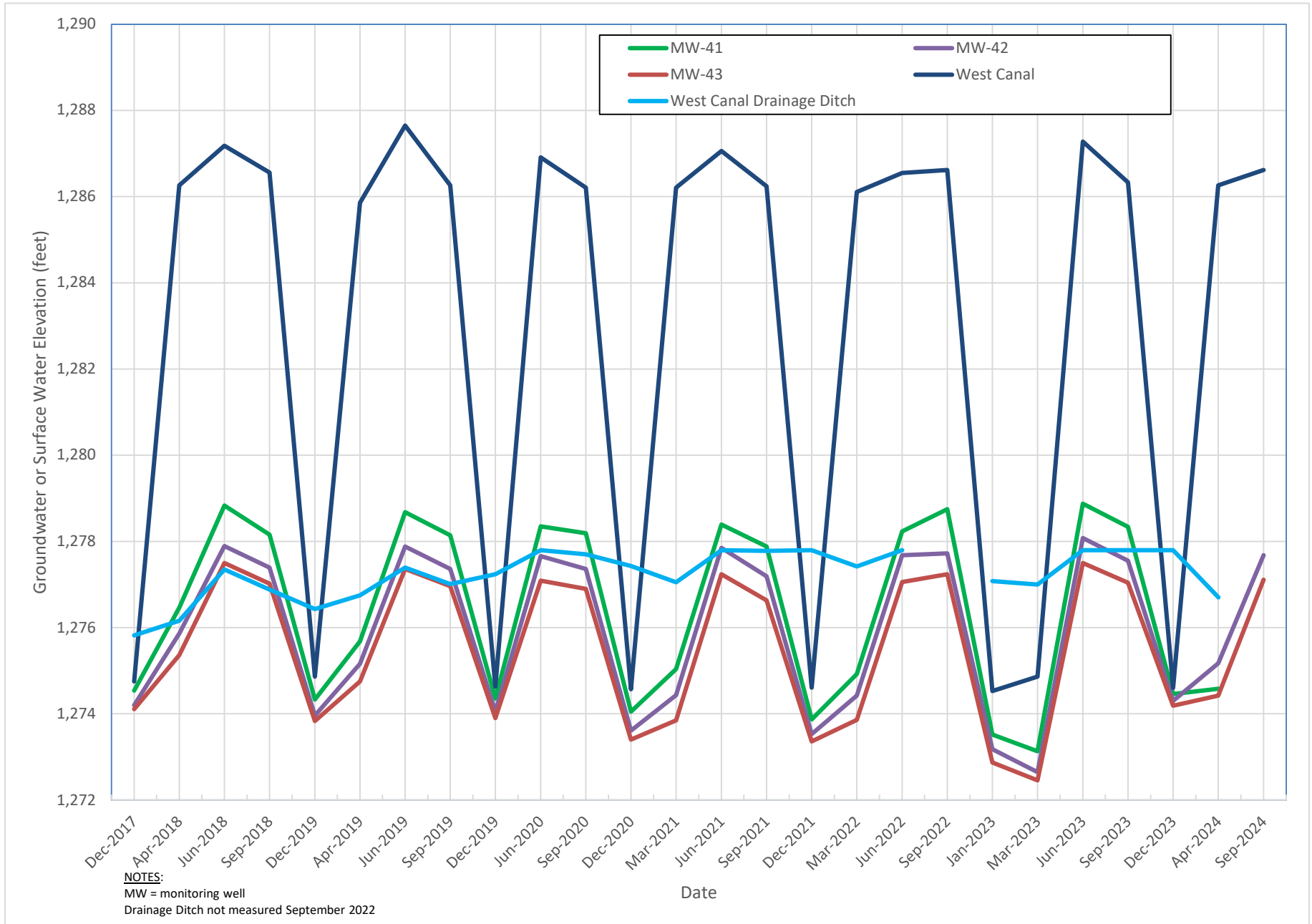
NOTES:
 Where not detected, half the detection limit used.
 MS/SVE = microsparge/soil vapor extraction
 VEW = vapor extraction well

Chart 2
Summary of 1,2-DCP Recovered by MS/SVE System
February 2016 to September 2024
Cenex Harvest States Cooperatives Site
Farallon PN: 301-001



NOTES:
MS/SVE = microsparge/soil vapor extraction
VEW = vapor extraction well
MS/SVE system off between 2/2015 and 2/2015.

Chart 3
Groundwater and Surface Water Elevations – December 2017 to September 2024
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001



APPENDIX A
SEPTEMBER 2024 PERFORMANCE AIR AND GROUNDWATER
COMPLIANCE MONITORING REPORT

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001



**September 2024 Performance Air and Groundwater
Compliance Monitoring Report
Attachment A of the 2024 Annual Report**

**Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington**

Farallon PN: 301-001

December 6, 2024

Prepared by:

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ATTACHMENTS

Attachement A Laboratory Analytical Reports

ACRONYMS AND ABBREVIATIONS

1,2-DCP	1,2-dichloropropane
1,2,3-TCP	1,2,3-trichloropropane
amsl	mean sea level
2024 Annual Report	<i>2024 Annual Report, Remedial Action Performance and Groundwater Compliance Monitoring, Cenex Harvest States Cooperatives Site, 300 Division Street East, Quincy, Washington</i> dated December 6, 2024 prepared by Farallon Consulting, L.L.C.
bgs	below ground surface
CHS	CHS Inc.
CHS Property	Grant County Parcel No. 040525043, near 300 Division Street East, in Quincy, Washington
Consent Decree	Consent Decree No. DE-00TCPER-1815 dated February 22, 2001 entered into by the Washington State Department of Ecology and Cenex Harvest States Cooperatives
DO	dissolved oxygen
Ecology	Washington State Department of Ecology
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, L.L.C.



Final CAP	<i>Final Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA dated February 22, 2001</i>
IHSs	indicator hazardous substances
µg/L	micrograms per liter
µg/m ³	micrograms per cubic meter
MS/SVE	microsparge/soil vapor extraction
MSW	microsparge well
O&M	operation and maintenance
PQL	practical quantitation limit
QA/QC	quality assurance/quality control
RAP	<i>Draft Remedial Action Work Plan, Cenex Harvest States Cooperatives Site, 300 Division Street, Quincy, Washington dated July 2, 2001 prepared by Farallon Consulting, L.L.C.</i>
RPD	relative percent difference
scfh	standard cubic feet per hour
Site	Grant County Parcel No. 040525043, near 300 Division Street East, in Quincy, Washington and adjacent and down-gradient properties where hazardous substances released from the CHS Property have come to be located
SVE	soil vapor extraction
VEW	vapor extraction well
VOCs	volatile organic compounds



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this September 2024 Remedial Action Performance and Groundwater Compliance Monitoring Report in Appendix A of the 2024 Annual Report (2024 Annual Report) on behalf CHS Inc. (CHS) (formerly Cenex Harvest States Cooperatives) to present the results from the groundwater compliance monitoring and operation and maintenance (O&M) activities performed at the Cenex Harvest States Cooperatives Site (herein referred to as the Site) (2024 Annual Report, Figure 1). The Site consists of the property near 300 Division Street East in Quincy, Washington (herein referred to as the CHS Property) and adjacent and down-gradient properties where hazardous substances released from the CHS Property have come to be located. A facility plan of the CHS Property and a Site plan are provided in the 2024 Annual Report on Figures 2 and 3, respectively.

Performance air monitoring activities were conducted in June and September 2024 and groundwater compliance monitoring activities were performed September 16 and 17, 2024. Work was completed in accordance with the *Final Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA* dated February 22, 2001 (Final CAP), Exhibit B of the Consent Decree (Washington State Department of Ecology [Ecology] 2001a), along with the Letter Regarding Proposed Compliance Groundwater Monitoring Modifications and Microsparge/Soil Vapor Extraction (MS/SVE) System 2024 Optimization Plan (Farallon 2024), approved by Ecology (2024) on April 26, 2024. The sampling was conducted pursuant to the requirements of Consent Decree No. DE-00TCPER-1815 dated February 22, 2001, entered into by Ecology (2001b) and Cenex Harvest States Cooperatives (Consent Decree). This report presents a description of the third quarter 2024 performance air and groundwater compliance monitoring, a discussion of the analytical data quality assurance/quality control (QA/QC) review, a summary of the O&M activities conducted including optimization efforts, and a summary and conclusions based on the results.

1.1 BACKGROUND

CHS completed installation and start-up of the MS/SVE soil and groundwater treatment system at the CHS Property in November 2001. The MS/SVE system conducts three primary operations:

- Extraction of soil gas from vadose zone soil using SVE wells VEW-1 through VEW-9 (VEW wells);



- Air sparging for stripping of volatile organic compounds (VOCs) from groundwater from two depths in MS/SVE wells MSW-1 through MSW-12 (MSW wells); and
- Extraction of soil gas from vadose zone soil and stripped VOC vapors from the SVE component of the 12 MSW wells.

Since installation and start-up of the MS/SVE soil and groundwater treatment system, groundwater compliance monitoring was generally conducted on a quarterly basis between December 2001 and April 2024. Beginning September 2024, groundwater compliance monitoring will be conducted semiannually at select monitoring wells (Farallon 2024). The MS/SVE system has been operating since December 2001 with Ecology coordination on periodic shut-downs due to mechanical failures or for evaluation purposes.

1.2 REPORT ORGANIZATION

The report has been organized into the following sections:

- **Section 2, Field Methods**, describes the performance air monitoring and compliance groundwater compliance monitoring field program including sample collection, analytical methods, depth to groundwater measurement, and purge water handling.
- **Section 3, Results**, provides results from the June through September 2024 performance air and groundwater compliance monitoring.
- **Section 4, Analytical Data Quality Assurance/Quality Control Review**, provides a QA/QC review of the air and groundwater analytical data collected in June and September 2024.
- **Section 5, Operation and Maintenance Activities**, provides a summary of the O&M activities conducted on the MS/SVE system between June and September 2024.
- **Section 6, Summary and Conclusions**, provides a summary of the Site activities conducted June through September 2024 and Farallon's conclusions regarding the results.
- **Section 7, Planned Work**, describes the work and schedule to complete air and groundwater sampling at the Site.
- **Section 8, References**, presents a list of the documents cited in this report.
- **Section 9, Limitations**, presents Farallon's standard limitations for this report.



2.0 FIELD METHODS

The field methods for the performance air and MS/SVE system optimization efforts along with groundwater compliance monitoring are provided in the following sections. As discussed in the 2024 Annual Report, repairs to the MS/SVE system compressor were completed in early May and the compressor was installed and the MS/SVE system restarted on May 22, 2024. The MS/SVE system was shut down on July 10, 2024 due to excessive heat that posed a risk to the blower and compressor and restarted on September 10, 2024. The repairs and seasonal shutdown were coordinated with Ecology.

2.1 PERFORMANCE AND MS/SVE SYSTEM EVALUATION AIR MONITORING

Performance air monitoring was conducted on June 7 and September 17, 2024 and MS/SVE system evaluation air monitoring was conducted on June 7, 2024. Additional details regarding the MS/SVE system operation are provided in Section 5.0, Operation and Maintenance Activities. Table A1 and Tables 1 through 4 of the 2024 Annual Report present performance air monitoring data collected at the Site and Table 5 of the 2024 Annual Report presents a summary of the 1,2-dichloropropane (1,2-DCP) recovered by the MS/SVE system.

2.1.1 MS/SVE System Evaluation Measurements

On May 22, 2024, the depth to groundwater and baseline dissolved oxygen (DO) concentrations were measured in monitoring wells MW-1, MW-3, MW-5, MW-8, MW-9, MW-16, and MW-24 using an electronic water level meter and a down-well DO probe when the MS/SVE system was off (before the system was restarted) and again 2 hours after startup of the system.

On June 7, 2024, the depth to groundwater and DO concentrations were measured (16 days after the system startup) in monitoring wells MW-1 through MW-3, MW-5, MW-8, MW-9, MW-16, and MW-24 using an electronic water level meter and down-well DO probe. The vacuum at monitoring wells MW-1 through MW-3, MW-5, MW-8, MW-9, MW-16, and MW-24 also was measured.



2.1.2 Air Sample Collection

Performance air samples were collected on June 7 and September 26, 2024 from sampling ports installed in the MS/SVE system influent air sampling ports as follows:

- MSW influent monitoring: upstream of the air bleed-in valve, and upstream of all carbon filters to monitor the air drawn from the MSW wells; and
- VEW influent monitoring: upstream of the air bleed-in valve, and upstream of all carbon filters to monitor the air drawn from the VEW wells.

Performance air samples collected on September 26, 2024 also included:

- Breakthrough monitoring: downstream of the first carbon filter; and
- Effluent monitoring: downstream of all carbon filters.

MS/SVE system evaluation air samples collected on June 7, 2024 included collection of influent air samples from individual VEW wells VEW-1 through VEW-9.

Air samples collected from the MSW and VEW influent air sample ports were collected directly from the sampling ports using 6-liter Summa canisters, and air samples collected from the individual VEW wells were collected from sampling ports using 1-liter Summa canisters. The influent air sampling was conducted in accordance with the sampling procedure provided in Attachment A of the Technical Memorandum Regarding Scope of Work for Supplemental Operation and Monitoring Activities for the Microsparge/Soil Vapor Extraction System dated February 26, 2015 (Farallon 2015).

Dedicated fittings and disposable Teflon tubing were used for collection of the MSW, VEW, and individual VEW influent air samples. The initial pressures of the Summa canisters were recorded, and the sampling train was checked for leaks. Upon confirmation that there was no measurable leakage in the sampling train, the sample tubing was purged of five internal volumes of air using a GilAir Plus air pump. After the sampling train had been purged, the Summa canister valve was opened, and the canister was allowed to fill until the final pressure reached approximately -5.0 inches of mercury. Air sample parameters, including sample volume, collection duration, and initial and final pressures, are summarized on Table 1 of the 2024 Annual Report. The air samples were transported under standard chain-of-custody protocols to either Eurofins Air Toxics, LLC of Folsom, California or Friedman and Bruya, Inc. of Seattle, Washington.

The effluent and breakthrough air samples were collected directly from the sampling port into a 1-liter Tedlar bag using disposable silicone tubing (2024 Annual Report, Table 1). The



samples were labeled and transported under chain-of-custody protocols in accordance with the *Draft Remedial Action Work Plan, Cenex Harvest States Cooperatives Site, 300 Division Street, Quincy, Washington* dated July 2, 2001 prepared by Farallon (2001) (RAP) to OnSite Environmental Inc. of Redmond, Washington.

2.1.3 Analytical Methods

The MSW and VEW influent air samples were analyzed for the groundwater indicator hazardous substances (IHSs) by Modified U.S. Environmental Protection Agency (EPA) Method TO-15 GC/MS. The IHSs for groundwater are a subset of the constituents of concern for the Site defined by Ecology in the *Final Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA* dated February 22, 2001 (Ecology 2001a) (Final CAP), Exhibit B of the Consent Decree. The IHSs for groundwater for the Site are chloroform, 1,2-dibromoethane (EDB), 1,2-dichloroethane, 1,2-DCP, 1,1,2-trichloroethane, 1,2,3-trichloropropane (1,2,3-TCP), and vinyl chloride. Air samples collected from individual VEW wells were analyzed for 1,2-DCP by EPA Method TO-15. The effluent air samples collected using a 1-liter Tedlar bag were analyzed for the groundwater IHSs by EPA Method 8260D.

2.2 GROUNDWATER COMPLIANCE MONITORING PROGRAM

September 16 and 17, 2024, groundwater compliance samples were collected from monitoring wells MW-3, MW-5, MW-6, MW-7, MW-13, MW-16, MW-17, MW-20, MW-24, MW-25, MW-26, MW-28, MW-29, MW-30, MW-31, MW-36, MW-38, MW-39, MW-42, MW-43, MW-44, MW-45, and MW-46 (Farallon 2024). With Ecology approval, groundwater samples were not collected from monitoring wells MW-34 or MW-35 due to access constraints. Monitoring well locations are presented on Figure 3 of the 2024 Annual Report.

2.2.1 Depth to Groundwater

Prior to sampling, the depth to groundwater in each monitoring well was measured using an electronic water-level indicator. The monitoring wells were opened, and the water levels were allowed to equilibrate for approximately 1 hour before measurement. The groundwater level was measured from the surveyed reference point on the top of the well casing to derive the groundwater elevation at each monitoring well. The distance to the water surface in the West Canal was measured from the surveyed measuring point on the top of the bridge along F Street Southeast; the distance to the water surface in the West Canal drainage ditch was measured from the surveyed measuring point on the top of the West Canal drainage ditch culvert (2024 Annual Report, Figure 3). The depth-to-groundwater and depth-to-surface-water measurements were completed on September 16, 2024



2.2.2 Sample Collection

Groundwater samples were collected September 16 and 17, 2023. Before the monitoring wells were purged, the dedicated polyethylene tubing intake was placed at the approximate center of the screened interval in each monitoring well. Groundwater was then purged from each well using a peristaltic pump at a flow rate of approximately 100 to 250 milliliters per minute. During the purging of groundwater, field measurements of pH, temperature, specific conductivity, DO, and oxidation-reduction potential were collected with YSI Model ProDSS water-quality analyzers equipped with flow-through cells. Two sets of water sampling instruments and pumps were used to conduct the September 2024 monitoring event. Groundwater samples were collected after the pH, temperature, and specific conductivity parameters stabilized. Stabilization for pH is determined as a change of plus or minus 0.1 pH unit between readings for three consecutive measurements, and for temperature and specific conductivity as an RPD of less than 3 percent between readings for three consecutive measurements. After stabilization was achieved, groundwater samples were collected immediately from each well by discharging groundwater directly from the dedicated polyethylene tubing outlet into laboratory-prepared sample containers.

The samples were labeled, placed on ice, and transported under chain of custody protocols in accordance with the approved RAP to OnSite Environmental Inc. of Redmond, Washington. Duplicate QA/QC samples were collected from monitoring wells MW-24 and MW-25.

2.2.3 Analytical Method

The groundwater samples were analyzed for the groundwater IHSs for the Site using EPA Method 8260D.

2.2.4 Purge Water Handling

Accumulated decontamination and purge water generated from the April 2024 and September 2024 sampling event is being stored in three 55-gallon drums inside the remediation building on the CHS Property pending development of a waste profile and disposal.



3.0 RESULTS

The results from the June and September 2024 performance air and MS/SVE system evaluation monitoring and groundwater compliance monitoring are provided in the following sections.

3.1 PERFORMANCE AND MS/SVE SYSTEM EVALUATION AIR MONITORING RESULTS

The field measurements and analytical results for the performance and MS/SVE system evaluation air monitoring samples collected from the Site in June and September 2024 are summarized in Table A1 and Tables 1 through 5 of the 2024 Annual Report. The laboratory analytical reports are provided in Attachment A.

3.1.1 MS/SVE System Evaluation Field Measurements

The results of the DO and vacuum measurements conducted on May 22 and June 7, 2024 are as follows (Table A1):

- Baseline DO concentrations measured with the MS/SVE system off were generally lower than DO concentrations measured after 2 hours of system operation in monitoring wells screened approximately 20 to 25 feet below ground surface (bgs) (shallow wells);
- DO concentrations measured in shallow monitoring wells adjacent to the MS/SVE system 16 days after MS/SVE system startup were similar to those measured 2 hours after system startup with the exception of monitoring well MW-3, which increased from 1.35 milligrams per liter to 9.49 milligrams per liter for the measured DO concentration;
- DO concentrations decreased slightly in deep monitoring wells monitoring wells MW-8 and MW-9 following the MS/SVE system startup after 2 hours of operation and 16 days of operation; and
- The vacuum measured at monitoring wells MW-1 through MW-3, MW-5, MW-8, MW-9, MW-16, and MW-24 after 16 days of MS/SVE system operation ranged from -8.53 to 0.24 inches of water.



3.1.2 MSW and VEW Influent and Effluent Samples

The June and September 2024 MSW, VEW influent and effluent, and individual VEW well air analytical results are summarized in Tables 2 and 3 of the 2024 Annual Report and on Figure A1 and are as follows:

- Groundwater IHSs were not detected at concentrations exceeding the laboratory practical quantitation limit (PQL) of 1.0 microgram per liter ($\mu\text{g}/\text{L}$) in the effluent and breakthrough air samples collected from the MS/SVE system.
- 1,2-DCP was detected at concentrations of 5.2 and 11 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in the influent air sample collected from the MSW wells.
- 1,2-DCP was detected at concentrations of 5.7 and 39 $\mu\text{g}/\text{m}^3$ in the influent air sample collected from the VEW wells.
- Other groundwater IHSs were not detected at a concentration exceeding the laboratory PQLs in the air samples collected from the MSW and VEW wells.
- 1,2-DCP was detected at concentrations up to 21 $\mu\text{g}/\text{m}^3$ in the individual VEW well samples.
- 1,2-DCP was detected at the highest concentrations in VEW wells VEW-1 and VEW-2 compared to other VEW wells at 21 and 19 $\mu\text{g}/\text{m}^3$, respectively, both located on the northernmost portion of the remediation system.

3.1.3 Mass of 1,2-DCP Recovered

The airflow rates of the SVE component of the MSW and VEW wells, and the 1,2-DCP concentrations detected in air samples were used to calculate the estimated cumulative mass of 1,2-DCP recovered by the MS/SVE system since February 2016. The estimated amount of 1,2-DCP recovered by the MS/SVE system between May 22 and September 24, 2024 is summarized below:

- Between May 22 and June 7, 2024 – 0.0011 pound of 1,2-DCP was recovered by the MSW wells and 0.0003 pound of 1,2-DCP was recovered by the VEW wells;
- Between June 7 and July 10, 2024 – 0.004 pound of 1,2-DCP was recovered by the MSW wells and 0.0007 pound of 1,2-DCP was recovered by the VEW wells; and
- Between September 10 and 14, 2024 – 0.0010 pound of 1,2-DCP was recovered by the MSW wells and 0.0013 pound of 1,2-DCP was recovered by the VEW wells.



An estimated 0.203 pound of 1,2-DCP has been recovered by the MSW wells and 0.118 pound by the VEW wells between February 10, 2016 and September 24, 2024, for a cumulative total of 0.321 pound of 1,2-DCP recovered between those dates. A summary of the airflow rates and the estimated mass of 1,2-DCP recovered by the MS/SVE system is provided in Table 4 of the 2024 Annual Report.

3.2 GROUNDWATER COMPLIANCE MONITORING RESULTS

Table 5 of the 2024 Annual Report presents a summary of the groundwater and surface water elevation data for the Site. Table 6 presents a summary of analytical results for IHSs in groundwater for the September 2024 monitoring event and those from the previous three quarters. Data collected prior to September 2023 were provided in Remedial Action Performance and Groundwater Compliance Monitoring Reports prepared for the Site previously submitted to Ecology. Site-specific cleanup levels established in the Final CAP, Exhibit B of the Consent Decree, are included in Table 6 of the 2024 Annual Report. Groundwater quality parameters measured in the field are summarized in Table 7 of the 2024 Annual Report. The laboratory analytical report for the September 2024 groundwater monitoring event is provided in Attachment A.

3.2.1 Groundwater Elevation

Groundwater elevations at the Site during the September 2024 monitoring event ranged from 1,276.12 feet above mean sea level (msl) in monitoring well MW-46 to 1,281.78 feet above msl in monitoring well MW-24. Table 5 of the 2024 Annual Report presents a summary of groundwater elevation data. Figure A2 depicts the groundwater elevation contours for monitoring wells in the shallow monitoring well network measured on September 16, 2024. Shallow monitoring wells at the Site are completed to a total depth of approximately 20 to 25 feet bgs; and deep monitoring wells to a total depth of approximately 40 to 45 feet bgs. The depth of the screened interval and the total depth of each monitoring well are shown in Table 5 of the 2024 Annual Report.

The average hydraulic gradient was approximately 0.0023 foot per foot across the Site in September 2024. The groundwater elevations measured during the September 2024 monitoring event ranged from 0.40 to 2.80 feet higher at the Site than those measured during the previous monitoring event in April 2024.

On September 16, 2024, the surface water elevation in the West Canal was 1,286.62 feet above msl, 0.36 foot higher than the elevation measured in April 2024. The surface water elevation in the West Canal drainage ditch was not measured due to heavy vegetation,



which prevented access. The groundwater elevation measured in monitoring well MW-42, installed near the West Canal and the West Canal drainage ditch surveyed measurement points, was 8.94 feet lower than the surface water elevation measured in the West Canal.

3.2.2 Analytical Results

The September 2024 groundwater semiannual compliance monitoring event included all monitoring wells that are required for the sampling under the updated monitoring plan (Farallon 2024) except for monitoring wells MW-34 and MW-35, with Ecology approval. The groundwater analytical results follow:

- 1,2-DCP was detected at concentrations at or exceeding the Site cleanup level of 1 µg/L in groundwater samples collected from nine of the 23 monitoring wells sampled during the September 2024 monitoring event.
- 1,2-DCP was detected at concentrations ranging from 0.32 µg/L in the sample collected from monitoring well MW-26 to 12 µg/L in the sample collected from monitoring well MW-28.
- Vinyl chloride, chloroform, 1,2-dichloroethane, 1,1,2-trichloroethane, and EDB were not detected at concentrations exceeding Site cleanup levels in any of the groundwater samples collected from Site monitoring wells.
- Chloroform was detected at concentrations exceeding the laboratory PQL but not the Site cleanup level of 7.2 µg/L in the groundwater samples collected from monitoring wells MW-20, MW-29, and MW-36.
- 1,2-Dichloroethane was detected at a concentration exceeding the laboratory PQL but not the Site cleanup level of 1 µg/L in the groundwater sample collected from monitoring well MW-41.
- 1,2,3-TCP was detected at concentrations at or exceeding the Site cleanup level of 1 µg/L in groundwater samples collected from four of the 23 monitoring wells sampled.
- 1,2,3-TCP was detected at concentrations ranging from 0.22 µg/L in the sample collected from monitoring well MW-45 to 11 µg/L in the sample collected from monitoring well MW-24.



3.2.3 Groundwater Quality Parameters

The final groundwater quality parameters recorded during purging of groundwater at each monitoring well prior to sample collection are provided in Table A2 and summarized below:

- pH values ranged from 5.91 to 7.95;
- Groundwater temperatures ranged from 15.7 to 20.8 degrees Celsius;
- Specific conductivity ranged from 709 to 6,365 microSiemens per centimeter;
- DO concentrations ranged from 0.45 to 8.15 milligrams per liter; and
- Oxidation-reduction potential values ranged from 122.3 to 278.6 millivolts.



4.0 ANALYTICAL DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

This section presents the analytical data QA/QC review for the air and groundwater samples collected in June and September 2024. Analytical results were reviewed in accordance with the procedures outlined in the Quality Assurance Project Plan, presented in Appendix B of the RAP.

4.1 METHOD DEVIATIONS

The RAP specified use of EPA Method 8260B for analysis for VOCs in groundwater and air. EPA Method 8260D was used for analysis for VOCs in water and Tedlar bag air samples for the September 2024 sampling event because it is the most-current version of EPA Method 8260 analysis, and includes additional laboratory QA/QC measures. The RAP specifies use of EPA Method 8260B for analysis for VOCs in groundwater and air. Use of Summa canisters for collection of air samples was not discussed in the RAP, so no analytical method was specified. Summa canister air samples were analyzed using Modified EPA Method TO-15 GC/MS, which provides lower detection limits for analysis for VOCs in air than EPA Method 8260 provides.

4.2 SAMPLE EXTRACTION AND HOLDING TIMES

Air and groundwater samples collected in June and September 2024 were extracted and analyzed within method-specified holding times.

4.3 METHOD REPORTING LIMITS

The laboratory PQLs for the groundwater analyses were less than or equal to Site cleanup levels.

4.4 FIELD DUPLICATE SAMPLES

Three groundwater field duplicate samples were collected during the September 2024 monitoring event:

- Sample QA/QC-1-091624-P-GW, a duplicate of MW-24-091624-P-GW; and
- Sample QA/QC-2-091724-P-GW, a duplicate of MW-25-091724-P-GW.



RPD is a measure of precision or reproducibility of measurements. RPDs were calculated for detected IHSs in groundwater samples and field duplicates for the EPA Method 8260D analyses as follows:

$$RPD = \frac{(C_1 - C_2)}{(C_1 + C_2)/2} \times 100$$

Where:

RPD = relative percent difference

C_1 = the larger of the two duplicate results (i.e., the highest detected concentration)

C_2 = the smaller of the two duplicate results (i.e., the lowest detected concentration)

If sample results were less than five times the laboratory PQL, the absolute difference between the two results would be calculated instead of an RPD. In the case where an analyte was not detected, the RPD or absolute difference for that compound was not calculated.

The RPDs for the QA/QC duplicate sample collected from monitoring well MW-24 were 16.4 percent for 1,2-DCP and 9.5 percent for 1,2,3-TCP. The RPD for the QA/QC duplicate sample collected from monitoring well MW-25 was 0.0 percent for 1,2-DC and the absolute difference was 0.03 for 1,2,3-TCP.

Because there are no criteria for evaluating RPDs for organic sample analyses, the results were compared to the EPA *National Functional Guidelines for Inorganic Superfund Methods Data Review* dated November 2020,¹ Part B: Method-Specific Data Review, ICP-MS Data Review, Section VII: Duplicate Sample Analysis, ICP-MS Table 7, *Duplicate Sample Actions*. For groundwater, the criteria for evaluating the precision or reproducibility of duplicate samples are an RPD of less than 20 percent, or an absolute difference of less than one times the laboratory PQL (laboratory PQL was 0.20) for results less than five times the laboratory PQL. The field duplicate samples collected during the September 2024 sampling event were within the criteria for inorganic laboratory analyses.

4.5 TRIP BLANK

Trip blanks were provided by the analytical laboratory to accompany the groundwater samples. The trip blanks were analyzed for the groundwater IHSs using EPA Method 8260D. IHSs were not detected at a concentration exceeding laboratory reporting limits in the trip

¹ EPA 542-R-20-006.



blank samples for the EPA Method 8260D groundwater analyses. Trip blank results are provided in the laboratory analytical report in Attachment A.

4.6 METHOD BLANK OR LABORATORY BLANK SAMPLES

One air method blank sample was analyzed using EPA Method TO-15 for the June 2024 sampling event; one laboratory blank sample was analyzed using Modified EPA Method TO-15 GC/MS for the June and September 2024 sampling event; and one air and two groundwater method blank samples were analyzed using EPA Method 8260D for the September 2024 sampling event. None of the analytes were detected at a concentration exceeding the laboratory PQLs in the air or groundwater samples.

4.7 SPIKE BLANK/SPIKE BLANK DUPLICATE SAMPLES

Two groundwater spike blank/spike blank duplicate samples were analyzed using EPA Method 8260D. RPDs for the two groundwater spike blank/spike blank duplicate samples were within acceptable laboratory control limits.

4.8 LABORATORY DUPLICATE SAMPLE

A laboratory duplicate sample was analyzed as part of the EPA Method 8260D air analysis. None of the analytes were detected at concentrations exceeding the laboratory PQL in the laboratory duplicate sample; therefore, RPDs and percent recoveries were not calculated.

4.9 CONTINUING CALIBRATION VERIFICATION

One air continuing calibration verification sample was analyzed as part of the Modified EPA Method TO-15 GC/MS analysis for the June and September 2024 sampling events. The percent recoveries for the continuing calibration verification samples were within the method limits.

4.10 LABORATORY SAMPLE CONTROL/LABORATORY CONTROL SAMPLE DUPLICATE

One air laboratory control sample/laboratory control sample duplicate was analyzed as part of the Modified EPA Method TO-15 GC/MS analysis for the June and September 2024 sampling events. One laboratory control sample/laboratory control sample duplicate was analyzed as part of the EPA Method TO-15 analysis for the June 2024 sampling event. The percent recoveries were within the method control limit.



4.11 SURROGATE RECOVERIES

Surrogate recoveries were analyzed as part of the EPA Method 8260D groundwater and air analyses, the Modified EPA Method TO-15 GC/MS air analysis, and the EPA Method TO-15 air analysis. The surrogate recoveries were within laboratory control limits.

4.12 PERCENT COMPLETENESS

No sample results were determined to be invalid. Therefore, the percent completeness for the analytical results for the June and September 2024 sampling events was 100 percent.



5.0 OPERATION AND MAINTENANCE AND SYSTEM OPTIMIZATION ACTIVITIES

Repairs to the MS/SVE system compressor were completed in early May; the compressor was installed and the system restarted on May 22, 2024. The MS/SVE system was shut down on July 10, 2024 due to excessive heat that could damage the blower and compressor and restarted on September 10, 2024. Measurements to evaluate the MS/SVE system operation for system optimization efforts were also collected.

Once the MS/SVE system was restarted on May 22, 2024, airflow adjustments were made to the system and system evaluation measurements and air samples were collected (Section 2.1.1, MS/SVE System Evaluation Measurements and Section 3.1, Performance and MS/SVE System Evaluation Results). The operation of the MS/SVE system during the operating period between May 22 and July 10, 2024 included:

- Operating VEW wells VEW-1 through VEW-9;
- Operating the MS and SVE components of MSW wells MSW-5 through MSW-12 only;
- Controlling airflow to the upper portion of MSW wells MSW-5 through MSW-12 at 5 standard cubic feet per hour (scfh); and to the deep portion of MSW wells MSW-5 through MSW-12 at 60 scfh; and
- Overall system vacuum was approximately 28.6 inches of water.

Upon restarting the MS/SVE system on September 10, 2024, airflow adjustments were made to the system to optimize recovery of 1,2-DCP. Focusing the air flow to SVE system VEW wells with higher concentrations of 1,2-DCP was recommended in the optimization plan for the MS/SVE system (Farallon 2024), and approved by Ecology (2024). Due to higher concentrations of 1,2-DCP detected in air samples collected from VEW wells VEW-1 and VEW-2 compared to other VEW wells during the June 2024 sampling event (Table 3, Figure A1), the following modifications were made:

- The applied vacuum at VEW wells VEW-1 through VEW-3 was increased by approximately 20 percent due to higher concentrations of 1,2-DCP detected in air samples collected from these wells.
- Both sparge and SVE portions of MSW wells MSW-1 and MSW-2 were turned on due to the higher concentration of 1,2-DCP detected VEW well VEW-1.



- MSW wells MSW-5 through MSW-12 were turned on with air flow at set at 60 scfh in lower portion the MSW wells and 5 scfh in the upper portion of the MSW wells.²
- Overall system vacuum was approximately 27.7 inches of water.

On September 24, 2024, a gate valve was installed in the MSW system vacuum piping to attempt to further increase the vacuum to VEW wells VEW-1 through VEW-3. The vacuum to VEW wells VEW-1 through VEW-3 was increased approximately by 8 percent following the gate valve installation. MS/SVE system operations include:

- Operating VEW wells VEW-1 through VEW-9;
- Operating MSW wells MSW-1, MSW-2, MSW-5 through MSW-12 with air flow at set at 60 scfh in lower portion the MSW wells and 5 scfh in the upper portion of the MSW wells; and
- Overall system vacuum was approximately 30.5 inches of water.

During the May and September 2024 O&M events, the temperature of air sparge piping was checked at the connections between the galvanized steel pipe and the polyvinyl chloride piping. Fittings on the carbon filtration system and the biofilter were inspected for leaks, misalignment, and loose fittings. All fittings appeared to be tight and in alignment.

5.1 MONITORING WELL MAINTENANCE

On September 16, 2024, the monument for monitoring well MW-4 was replaced by Holt Services, Inc. of Edgewood, Washington. Construction work on the adjacent building in 2023 resulted in the ground surface being raised several inches in elevation. The existing monument was removed, and a new monument was installed flush with the new ground surface. Prior to replacement of the well monument, the Northwest Utility Notification Center located public utilities in the vicinity of monitoring well MW-4 and Applied Professional Services Inc. of North Bend, Washington conducted a private utility location survey on September 16, 2024.

² Including MSW-1 and MSW-2



6.0 SUMMARY AND CONCLUSIONS

The groundwater and surface water elevations were consistent with historical seasonal groundwater and surface water elevation results measured during previous sampling events. The groundwater flow direction was to the southeast across most of the Site and to the south near the West Canal during the September 2024 monitoring event, which was also consistent with the historical groundwater flow direction patterns at the Site.

The IHSs 1,2-DCP and 1,2,3-TCP continued to be detected at concentrations exceeding Site cleanup levels in groundwater at the Site in April 2024 (2024 Annual Report Table 6). A southeast-trending plume of dissolved-phase 1,2-DCP and 1,2,3-TCP at concentrations exceeding the Site cleanup level is present in groundwater at the Site. The southeast-trending groundwater plume remains relatively narrow in width compared to its length and also has remained relatively stable since groundwater sampling began in the late 1990s. Figures A3 through A10 depict the estimated isoconcentration contours and groundwater analytical results for 1,2-DCP and 1,2,3-TCP in the shallow and deep monitoring well networks for the September 2024 monitoring event. Figures A11 and A12 depict cross sections and 1,2-DCP and 1,2,3-TCP concentrations in groundwater at the Site.

1,2-DCP and 1,2,3-TCP concentrations detected in groundwater samples were generally consistent with previous sampling results. A slight increase in 1,2-DCP concentrations has been observed in groundwater samples collected from shallow monitoring well MW-28 over the last year of monitoring (Table 6). Due to the increase in concentrations, the Quincy School District requested that samples be collected from down-gradient monitoring well MW-21 in April 2024. IHSs were not detected exceeding the laboratory PQLs or Site cleanup levels at monitoring well MW-21 during the April 2024 sampling event. 1,2-DCP concentrations will continue to be monitored semiannually at MW-28.

1,2-DCP and 1,2,3-TCP concentrations in both shallow and deep monitoring wells in the vicinity of the MS/SVE system have remained stable during the last several monitoring events while optimization efforts have been conducted (2024 Annual Report Table 6; Figures A5, A6, A9, and A10).

1,2-DCP was detected in the influent air samples collected from the MSW and VEW sampling ports and all but one of the individual VEW wells in June and/or September 2024. Less than 0.35 pound of 1,2-DCP has been recovered by the MS/SVE system over the past



8 years. While the MS/SVE system continues to recover VOCs from the subsurface, the amount recovered remains minimal despite optimization efforts.



7.0 PLANNED WORK

The current MS/SVE system operational plan is to operate the system continuously, with periodic shut-down periods as coordinated with Ecology, and collect air samples from individual VEW wells VEW-1 through VEW-9 in December 2024 for analysis of 1,2-DCP to evaluate optimization efforts. The performance of the system will be summarized at the close of 2024 and presented to Ecology in a separate Technical Memorandum. The MS/SVE system will continue operation until the optimization results and recommendations for further action(s) are evaluated and approved by Ecology.

The next semiannual groundwater compliance monitoring event is scheduled for March/April 2025 (Farallon 2024).



8.0 REFERENCES

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- . 2024. Letter Regarding Proposed Compliance Groundwater Monitoring Modifications and Microsparge/Soil Vapor Extraction System 2024 Optimization Plan, Cenex, Cenex Harvest States Cooperatives Site, Quincy, Washington. From Jeff Kaspar and Tracey Mulhern. To Kristin Beck, Washington State Department of Ecology, April 26.
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- . 2001b. *Final Consent Decree and Cleanup Action Plan, Cenex/Quincy Site, Quincy, WA*. February 22.
- . 2001c. Letter Regarding Responsiveness Summary and Removal Action Plan Approval. From Guy Gregory. To Jerry Eide, Cenex Harvest States Cooperatives. October 8.
- . 2009. *Cenex/Quincy Site, Final Periodic Review, Quincy, Washington*. Eastern Regional Office, Toxics Cleanup Program. June.
- . 2024. Email Regarding Approval of the Cenex/Quincy Proposed Groundwater Sampling Revisions and 2024 MS/SVE Operational Plan. From Kristin Beck. To Tracey Mulhern, Farallon. April 26.



9.0 LIMITATIONS

9.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information.** Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization.** Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and CHS, and currently accepted industry standards. No other warranties, representations, or certifications are made.

9.2 LIMITATION ON RELIANCE BY THIRD PARTIES

Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of CHS to address the unique needs of CHS at the Site at a specific point in time.



This is not a general grant of reliance. No one other than CHS may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

SEPTEMBER 2024 PERFORMANCE AIR AND GROUNDWATER COMPLIANCE
MONITORING REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001

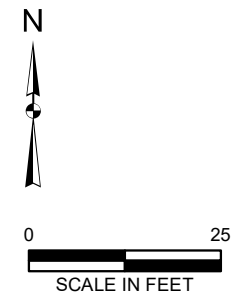


LEGEND

- AIR SPARGE WELL (NOT CONNECTED TO CURRENT MICROSPARGE/SOIL VAPOR EXTRACTION (MS/SVE) SYSTEM)
- MICROSPARGE WELL
- VAPOR EXTRACTION WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- AIR SPARGE WELL PIPING (NOT CONNECTED TO CURRENT MS/SVE SYSTEM)
- MICROSPARGE EXTRACTION WELL PIPING
- VAPOR EXTRACTION WELL PIPING
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- GRANT COUNTY PARCEL BOUNDARY
- CHS PROPERTY BOUNDARY

NOTES:
 AIR ANALYTICAL RESULTS DISPLAYED AS:
 [1,2-DCP]

AIR ANALYTICAL RESULTS IN MICROGRAMS PER CUBIC METER
BOLD = DENOTES CONCENTRATIONS DETECTED EXCEEDING THE LABORATORY REPORTING LIMIT
 < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
 1,2-DCP = 1,2-DICHLOROPROPANE



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A1
 AIR ANALYTICAL RESULTS FOR 1,2-DCP,
 JUNE 2024 - INDIVIDUAL VEW WELLS
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON

FARALLON PN: 301-001

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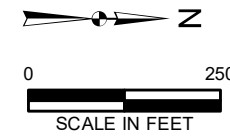
California
Oakland | Irvine

Drawn By: jones Checked By: TM Date: 7/31/2024

G:\Projects\301_Cenex\001_Quincy\Mapfiles\008_AirData_202407\Figure-04_Air-12-DCP_202407.mxd



- LEGEND**
- MONITORING WELL (SHALLOW)
 - WEST CANAL SURVEYED MEASURING POINT
 - WEST CANAL DRAINAGE DITCH SURVEYED MEASURING POINT
 - DOMESTIC WELL
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
- GROUNDWATER ELEVATION MEASURED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM 1988
- [1,281.78] SURFACE WATER ELEVATION
- [1,286.62] SURFACE WATER ELEVATION
- NM GROUNDWATER ELEVATION NOT MEASURED
- 1,281.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF SHALLOW GROUNDWATER FLOW



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A2
 GROUNDWATER ELEVATION CONTOUR MAP,
 SEPTEMBER 16, 2024
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001

Washington
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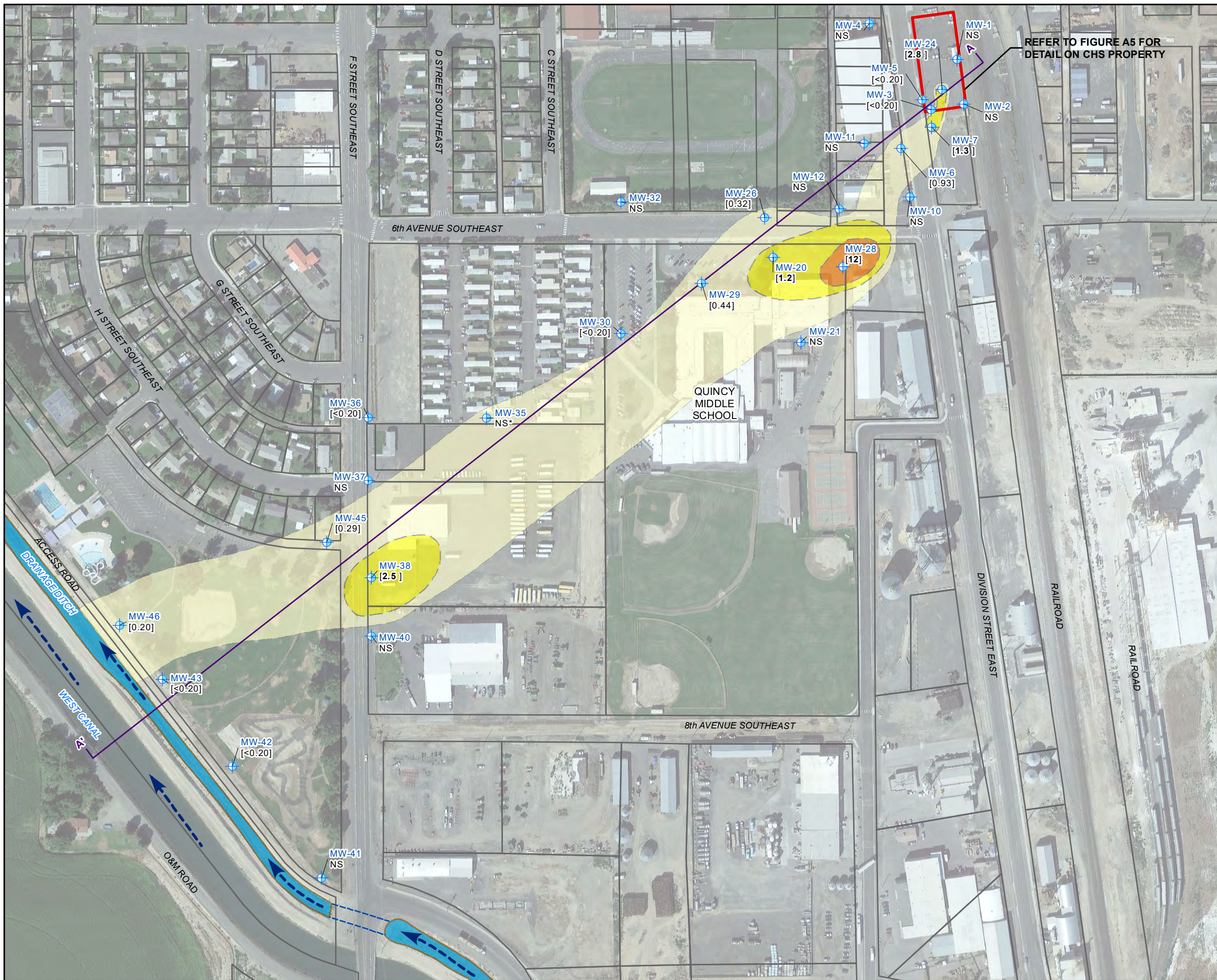
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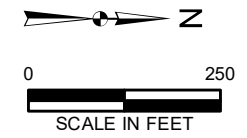
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- LEGEND**
- MONITORING WELL (SHALLOW)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION
 - [0.93] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (ug/l)
 - BOLD** = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 ug/l
 - * = CONTOUR BASED ON PREVIOUS ANALYTICAL RESULTS
 - < = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED
 - NS = WELL NOT SAMPLED
 - ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

- 1,2-DCP CONCENTRATION IN ug/l**
- 0.20 - 0.99
 - 1.0 - 9.9
 - 10.0 - 25.0



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A3
 ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS - SEPTEMBER 2024
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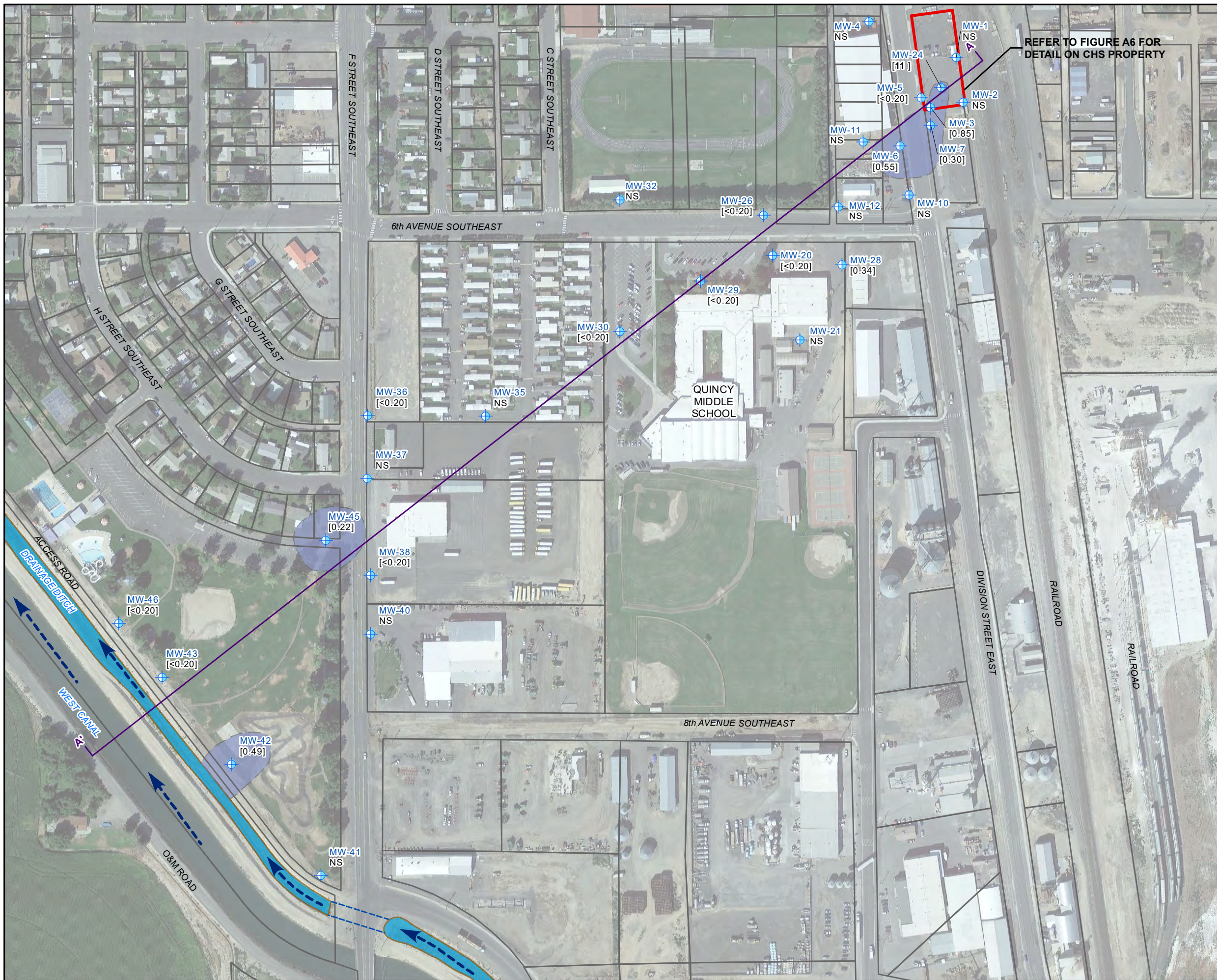
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LEGEND

- MONITORING WELL (SHALLOW)
- WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
- WEST CANAL DRAINAGE DITCH CULVERT
- CHS PROPERTY BOUNDARY
- WEST CANAL DRAINAGE DITCH
- LINE OF CROSS-SECTION

[0.85] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25

N

0 250
SCALE IN FEET

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A4

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS - SEPTEMBER 2024
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C:\Temp\GIS\001 Quincy\Mapfiles\009\Appx A\Figure-A4_GW-Regional-Shallow_TCP_2024-09.mxd



LEGEND

- MONITORING WELL (SHALLOW)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[<0.20] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

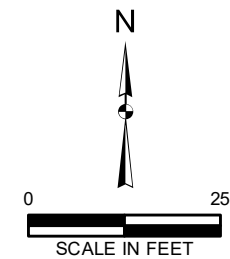
BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A5
 ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - SEPTEMBER 2024
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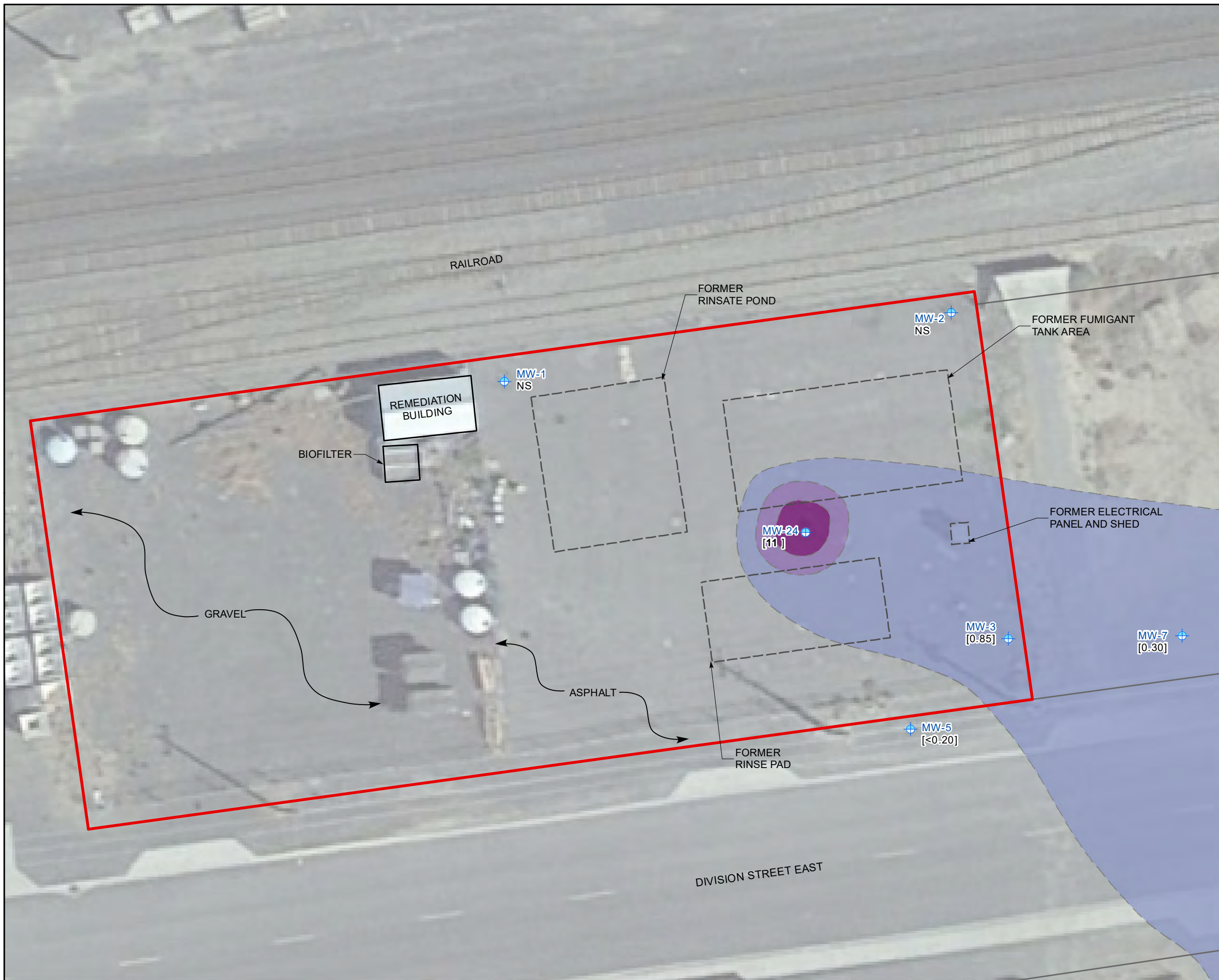
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C:\Temp\GIS\001 Quincy\Mapfiles\009\Appx A\Figure-A5_GW-Property-Shallow_DCP_2024-09.mxd



LEGEND

-  MONITORING WELL (SHALLOW)
-  CURRENT SITE FEATURE
-  FORMER SITE FEATURE
-  CHS PROPERTY BOUNDARY




[0.85] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

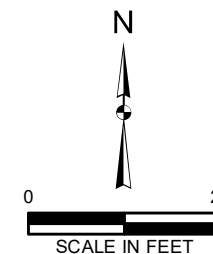
BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

-  0.20 - 0.99
-  1.0 - 9.9
-  10 - 25



1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A6
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - SEPTEMBER 2024
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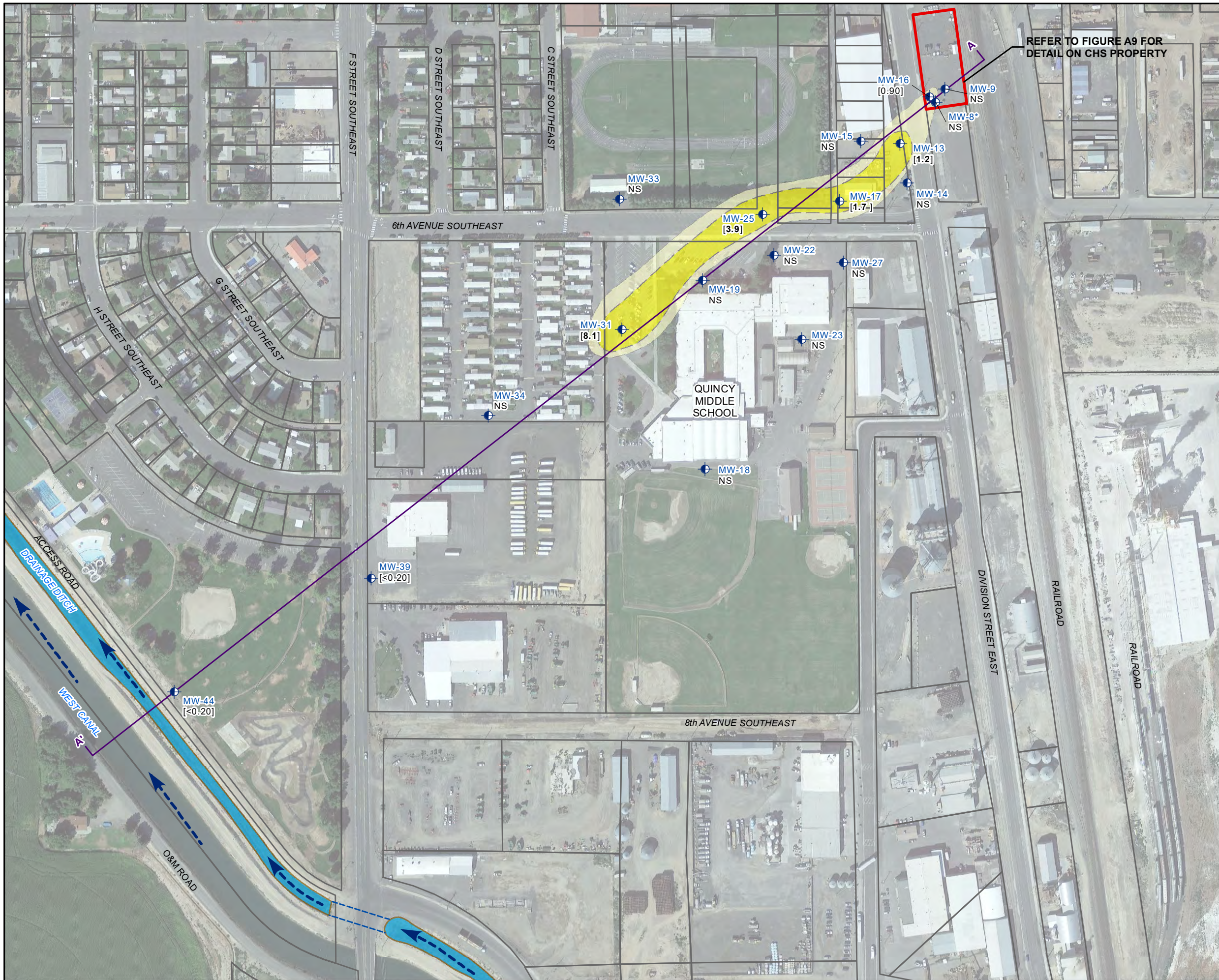
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- LEGEND**
- MONITORING WELL (DEEP)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.90] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

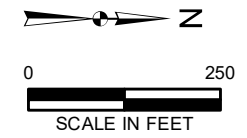
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A7
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS - SEPTEMBER 2024
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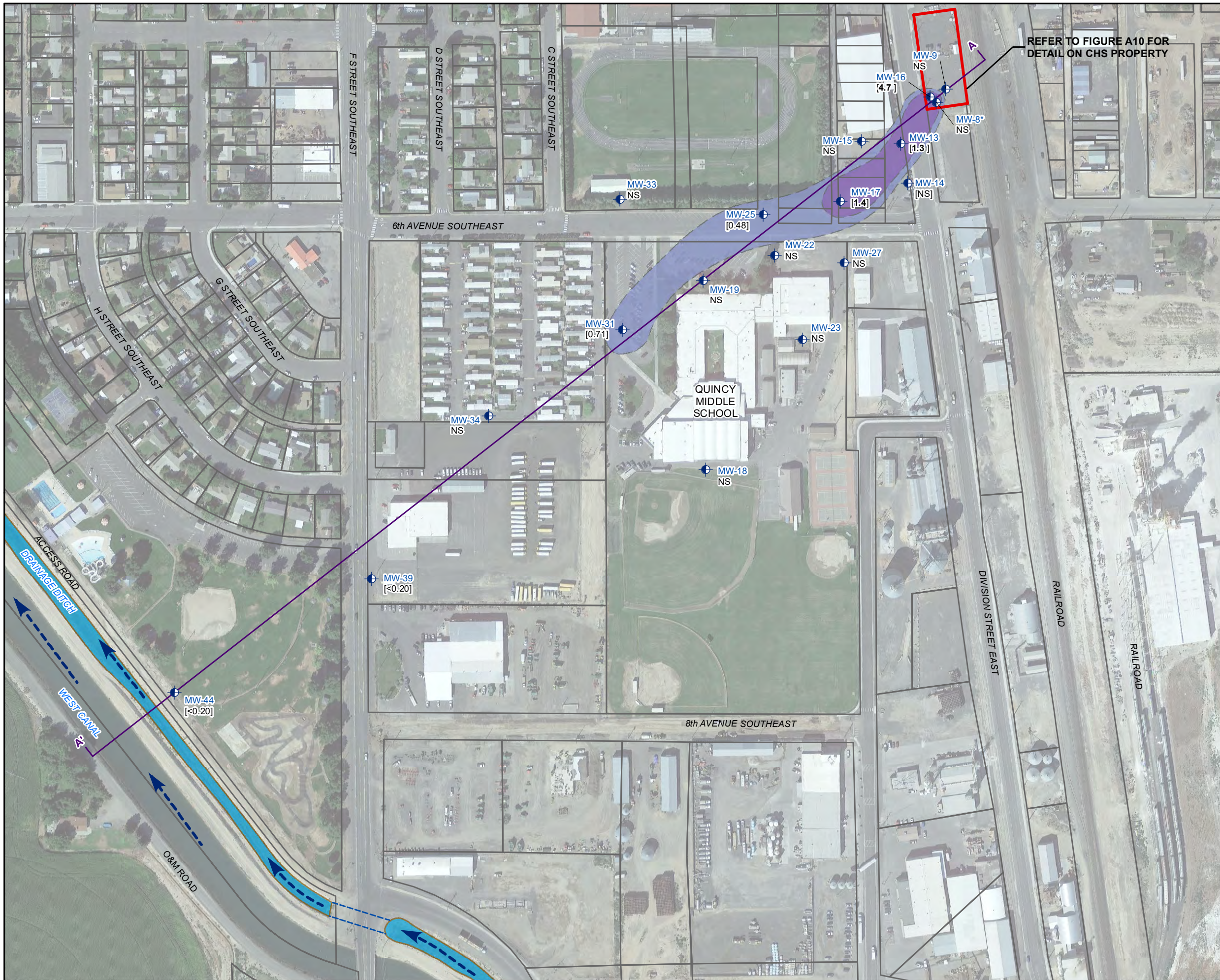
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- LEGEND**
- MONITORING WELL (DEEP)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.54] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

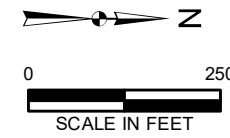
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A8

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS - SEPTEMBER 2024
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LEGEND

-  MONITORING WELL (DEEP)
-  CURRENT SITE FEATURE
-  FORMER SITE FEATURE
-  CHS PROPERTY BOUNDARY

- [0.90] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)
- < = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED
- - - ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

-  0.20 - 0.99
-  1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A9
 ISOCONCENTRATION CONTOURS AND
 GROUNDWATER ANALYTICAL RESULTS
 FOR 1,2-DCP
 IN DEEP MONITORING WELLS IN SOURCE AREA -
 SEPTEMBER 2024
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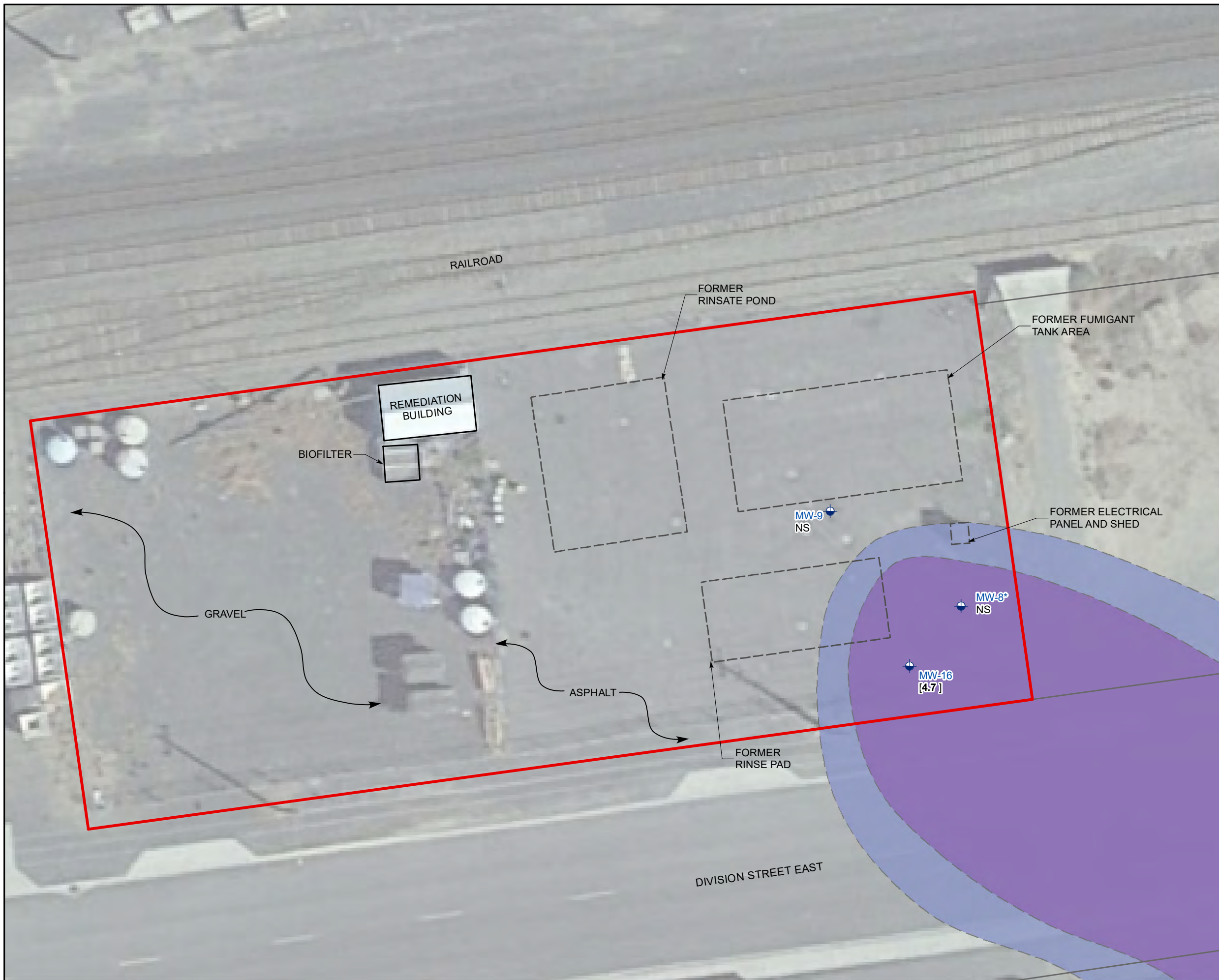


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LEGEND

-  MONITORING WELL (DEEP)
-  CURRENT SITE FEATURE
-  FORMER SITE FEATURE
-  CHS PROPERTY BOUNDARY

- [4.7] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)
- * = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS
- BOLD** = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l
- < = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED
- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

-  0.20 - 0.99
-  1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE A10
 ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS IN SOURCE AREA - SEPTEMBER 2024
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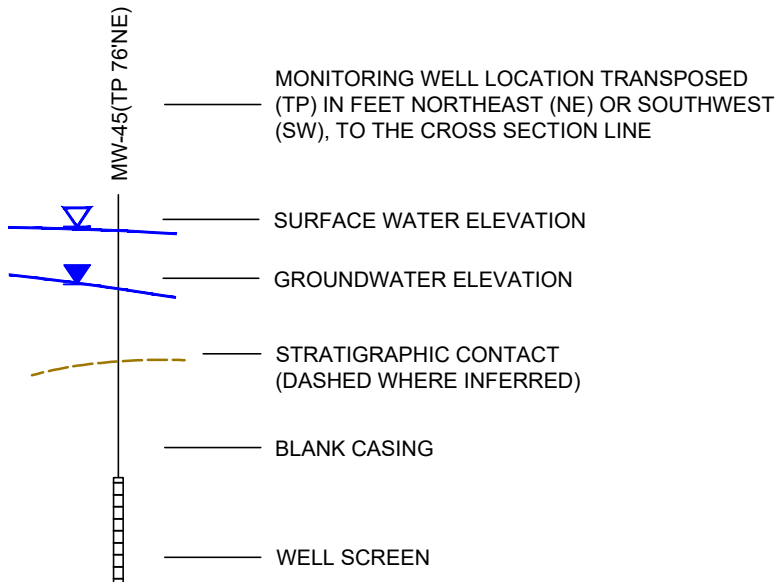
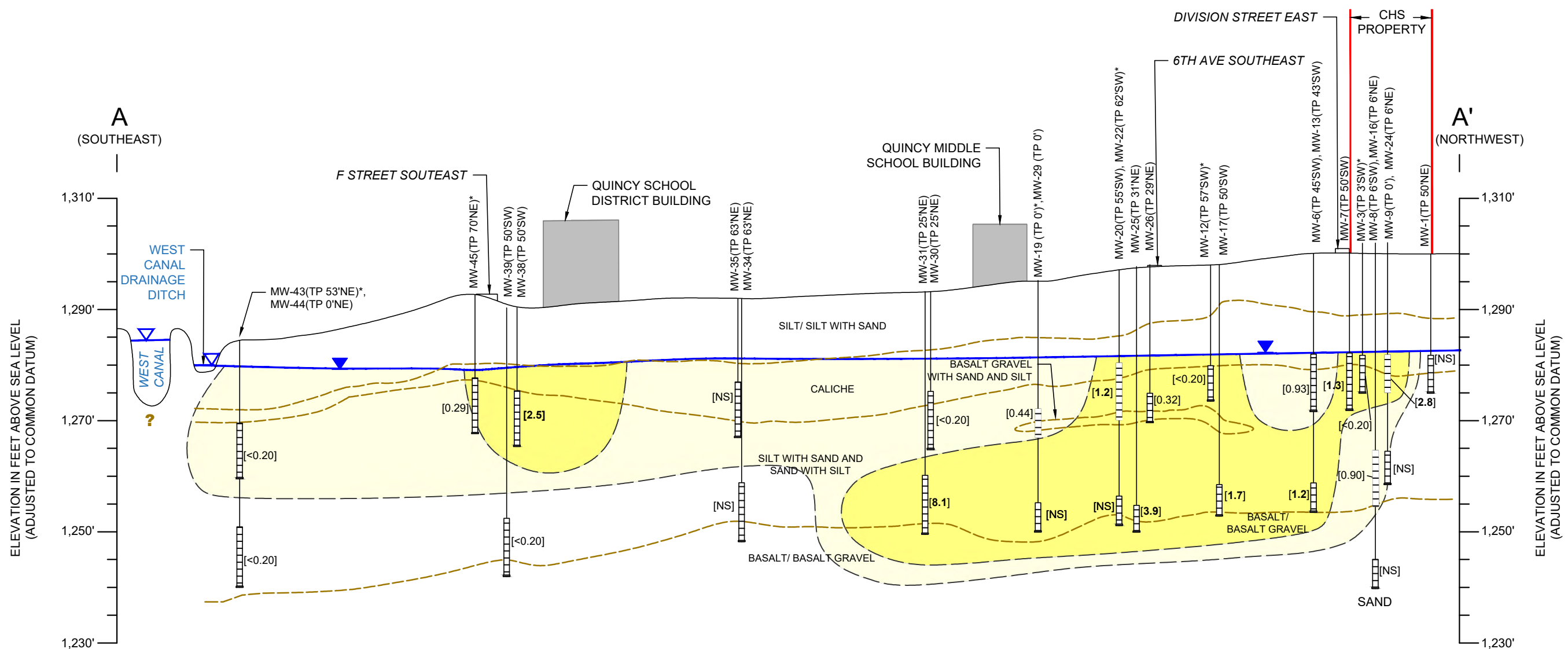


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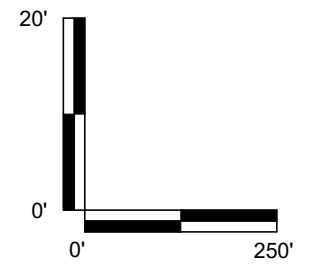
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- NOTES:**
- [3.9] = GROUNDWATER ANALYTICAL RESULTS AS [1,2-DICHLOROPROPANE(1,2-DCP) IN MICROGRAMS PER LITER (µg/l).
 - [NS] = NOT SAMPLED, HISTORICAL SAMPLING RESULTS <0.20 µg/l
 - BOLD** = SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l
 - ? = DEPTH OF WEST CANAL UNKNOWN
 - * = RESULTS NOT USED FOR CROSS SECTION
 - - - = ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - = 1,2-DCP 0.20 TO 0.99 µg/l
 - = 1,2-DCP 1.0 TO 9.9 µg/l
 - = 1,2-DCP 10 TO 25 µg/l

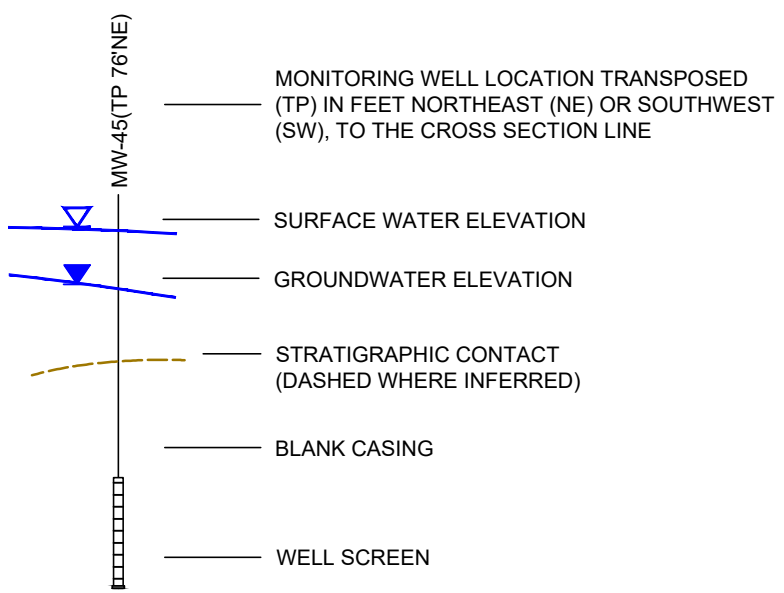
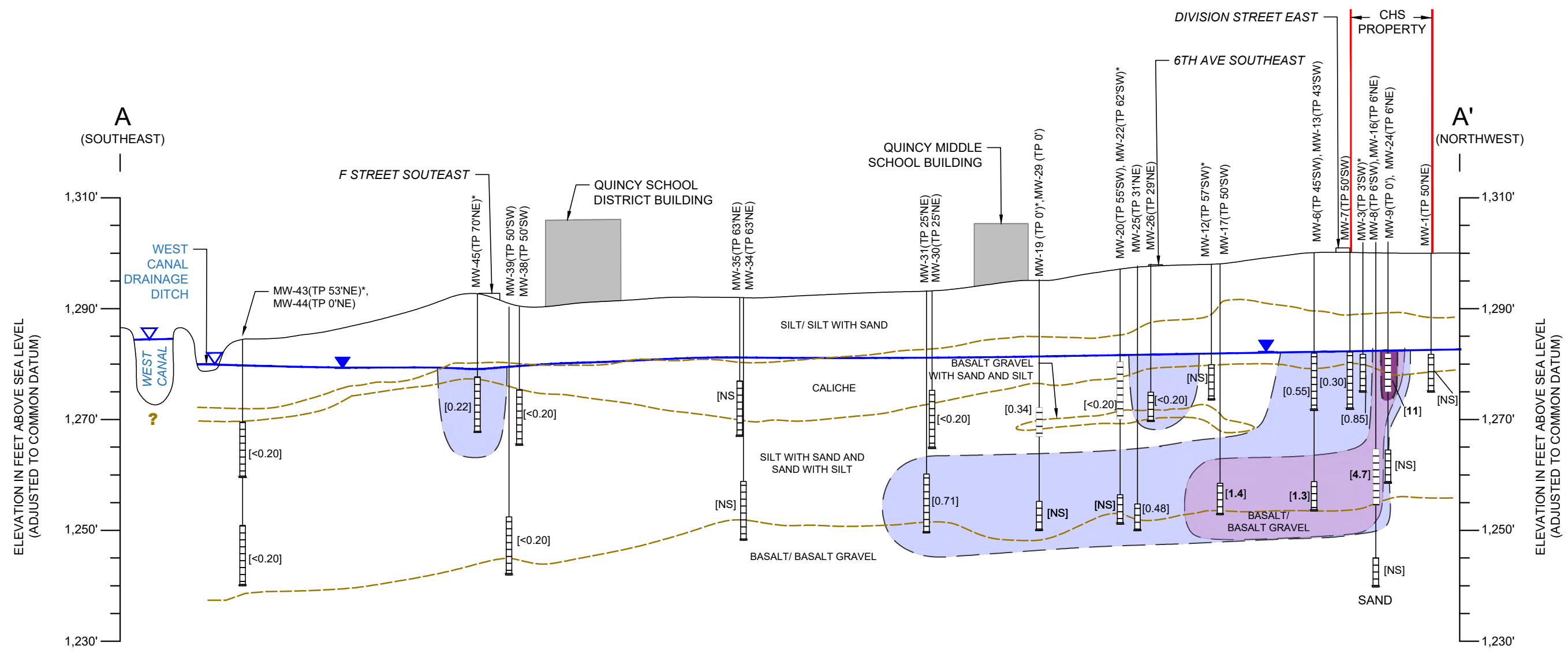


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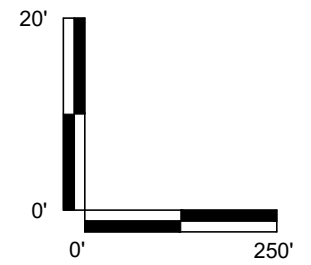
FIGURE A11
 CROSS SECTION OF 1,2-DCP GROUNDWATER PLUME, SEPTEMBER 2024
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 QUINCY, WASHINGTON
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- NOTES:**
- [11] = GROUNDWATER ANALYTICAL RESULTS AS [1,2,3-TRICHLOROPROPANE (1,2,3-TCP)] IN MICROGRAMS PER LITER ($\mu\text{g/l}$).
 - [NS] = NOT SAMPLED, HISTORICAL SAMPLING RESULTS $<0.20 \mu\text{g/l}$
 - BOLD** = SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF $1 \mu\text{g/l}$
 - ? = DEPTH OF WEST CANAL UNKNOWN
 - * = RESULTS NOT USED FOR CROSS SECTION
 - - - = ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - = 1,2,3-TCP 0.20 TO 0.99 $\mu\text{g/l}$
 - = 1,2,3-TCP 1.0 TO 9.9 $\mu\text{g/l}$
 - = 1,2,3-TCP 10 TO 25 $\mu\text{g/l}$



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FIGURE A12
CROSS SECTION OF 1,2,3-TCP
GROUNDWATER PLUME,
SEPTEMBER 2024
GENEX HARVEST STATES
COOPERATIVES SITE
QUINCY, WASHINGTON
FARALLON PN: 301-001

Drawn By: RB Checked By: TM Date: 10/17/2024

TABLES

SEPTEMBER 2024 PERFORMANCE AIR AND GROUNDWATER COMPLIANCE
MONITORING REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001

Table A1
Groundwater Elevation, DO, Temperature, and Pressure Measurements
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification (total depth in feet) ¹	Screened Interval (feet) ²	Elevation Top of Well Casing (feet) ³	Date	Time	Depth to water	Groundwater Elevation (feet) ³	Dissolved Oxygen (DO)		Temperature (°F)	Wellhead Vacuum (IOW)	Notes	
							mg/L	% Saturation				
MW-1 (26.31)	20-25	1,303.29	5/22/2024	13:00	21.91	1,281.38	5.25	54.8	15.1	---	Baseline, system off	
			5/22/2024	15:00	21.89	1,281.40	5.49	57.5	15.2	---	2 hours after system start-up	
			6/7/2024	8:00	21.87	1,281.42	5.41	56.3	15.2	0.007	16 days after system start-up	
MW-2 (26.00)	20-25	1,303.46	5/22/2024	---	---	---	---	---	---	---	Not measured	
			5/22/2024	---	---	---	---	---	---	---	---	Not measured
			6/7/2024	8:00	22.23	1,281.23	6.62	69.3	15.3	-0.005	16 days after system start-up	
MW-3 (27.14)	20-25	1,302.76	5/22/2024	13:00	21.69	1,281.07	0.93	9.9	15.5	---	Baseline, system off	
			5/22/2024	15:00	21.56	1,281.20	1.35	14.3	15.7	---	2 hours after system start-up	
			6/7/2024	8:00	21.54	1,281.22	9.49	99.8	15.6	0.010	16 days after system start-up	
MW-5 (24.38)	20-25	1,299.53	5/22/2024	13:00	18.44	1,281.09	0.53	5.5	15.5	---	Baseline, system off	
			5/22/2024	15:00	18.43	1,281.10	0.79	8.4	15.5	---	2 hours after system start-up	
			6/7/2024	8:00	18.33	1,281.20	0.63	6.6	15.8	-0.015	16 days after system start-up	
MW-8 (60.31)	55-60	1,303.82	5/22/2024	13:00	22.8	1,281.02	8.37	88	15.4	---	Baseline, system off	
			5/22/2024	15:00	22.78	1,281.04	7.88	83.4	15.6	---	2 hours after system start-up	
			6/7/2024	8:00	22.67	1,281.15	6.90	74.2	16.2	-0.481	16 days after system start-up	
MW-9 (42.70)	35-40	1,302.83	5/22/2024	13:00	21.62	1,281.21	6.50	67.6	14.9	---	Baseline, system off	
			5/22/2024	15:00	21.66	1,281.17	5.84	61.4	15.7	---	2 hours after system start-up	
			6/7/2024	8:00	21.58	1,281.25	4.50	47.8	16	-8.53	16 days after system start-up	
MW-16 (45.20)	35-45	1,300.08	5/22/2024	13:00	18.97	1,281.11	0.45	4.7	15.8	---	Baseline, system off	
			5/22/2024	15:00	18.97	1,281.11	0.46	4.9	15.7	---	2 hours after system start-up	
			6/7/2024	8:00	18.87	1,281.21	0.60	6.5	15.9	-0.023	16 days after system start-up	
MW-24 (23.84)	19-24 ⁴	1,300.59	5/22/2024	13:00	19.42	1,281.17	0.52	5.5	15.9	---	Baseline, system off	
			5/22/2024	15:00	19.32	1,281.27	0.50	4.9	16	---	2 hours after system start-up	
			6/7/2024	8:00	19.29	1,281.30	0.59	6.2	15.8	0.240	16 days after system start-up	

NOTES:

¹In feet below top of well casing.

²In feet below ground surface according to boring logs for each monitoring well.

³Elevation in feet above mean sea level, adjusted to common datum.

⁴Screened interval estimated based on total depth of well. Farallon has not located a well installation log for monitoring well MW-24. The water well report filed with the Washington State Department of Ecology by the driller in 1998 listed a screened interval of 23 to 28 feet below ground surface, which appears to be an error, based on the measured total depth.

% = percent

F = Ferieneheight

IOW = inches of water

mg/L = milligrams per liter

Table A2
Summary of pH, Temperature, Specific Conductivity, DO, and ORP in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Field Measurements ¹				
		pH	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-1 (shallow)	6/28/2023	7.69	18.3	1,388	4.60	212.3
	9/27/2023	7.66	16.2	1,589	5.39	112.8
	12/5/2023	7.65	14.1	1,552	4.87	182.6
	4/2/2024	7.73	15.0	1,010	4.69	140.3
	9/16/2024	Not Sampled				
MW-2 (shallow)	6/28/2023	7.82	19.7	1,300	5.90	236.0
	9/28/2023	7.76	15.2	1,747	5.34	84.8
	12/4/2023	7.76	13.9	1,518	5.80	257.8
	4/1/2024	7.66	15.9	1,078	6.05	170.6
	9/16/2024	Not Sampled				
MW-3 (shallow)	9/28/2023	7.64	15.8	2,728	8.81	195.9
	12/5/2023	7.09	15.0	2,969	3.39	238.4
	4/1/2024	7.22	15.8	2,205	1.42	166.0
	9/16/2024	7.44	19.0	3,350	8.15	200.2
MW-5 (shallow)	9/27/2023	7.44	16.1	2,060	0.30	128.8
	12/5/2023	7.17	15.6	1,814	0.21	176.2
	4/2/2024	7.21	14.9	1,407	0.91	195.3
	9/16/2024	7.17	18.2	2,073	2.40	156.2
MW-6 (shallow)	9/27/2023	7.66	16.7	3,281	2.29	136.1
	12/5/2023	7.44	14.9	2,936	2.83	221.0
	4/2/2024	7.56	15.8	2,198	3.88	180.8
	9/17/2024	7.57	17.0	3,331	4.02	157.9
MW-7 (shallow)	9/27/2023	7.36	16.4	3,673	0.39	76.2
	12/5/2023	7.38	14.8	3,097	0.23	166.6
	4/2/2024	7.41	15.0	2,505	1.09	198.7
	9/17/2024	7.43	17.9	4,086	2.86	135.9
MW-8 (deep)	6/29/2023	7.58	18.6	1,363	4.38	149.7
	9/28/2023	7.94	15.3	1,386	3.78	165.1
	12/5/2023	7.65	14.4	1,309	5.76	190.7
	4/2/2024	7.72	16.1	845	5.25	123.6
	9/16/2024	Not Sampled				
MW-9 (deep)	6/28/2023	8.07	19.1	1,560	0.26	188.8
	9/28/2023	8.20	15.8	1,913	0.54	65.8
	12/5/2023	7.96	14.3	1,526	0.22	165.2
	4/1/2024	7.92	16.6	1,012	0.43	143.4
	9/16/2024	Not Sampled				
MW-11 (deep)	6/29/2023	7.51	15.6	1,613	0.84	129.4
	9/27/2023	7.82	15.1	1,707	0.46	126.6
	12/6/2023	7.71	13.7	1,216	2.72	157.5
	4/2/2024	7.76	14.5	918	1.58	195.1
	9/16/2024	Not Sampled				

Table A2
Summary of pH, Temperature, Specific Conductivity, DO, and ORP in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Field Measurements ¹				
		pH	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-12 (shallow)	6/28/2023	7.62	16.7	1,427	6.50	204.8
	9/27/2023	7.65	16.0	1,542	7.38	112.5
	12/6/2023	7.65	14.6	1,380	7.06	205.8
	4/2/2024	7.78	15.1	950	7.32	189.3
	9/16/2024	Not Sampled				
MW-13 (deep)	9/27/2023	7.80	16.4	2,471	0.24	145.9
	12/5/2023	7.63	14.4	1,987	0.19	176.8
	4/2/2024	7.68	15.1	1,445	0.74	192.2
	9/17/2024	7.58	16.8	2,554	2.69	148.0
MW-15 (deep)	6/29/2023	7.67	16.2	1,316	1.90	92.8
	9/27/2023	7.98	15.4	1,384	3.33	138.1
	12/5/2023	7.59	13.9	1,543	0.59	164.3
	4/2/2024	7.64	14.7	1,142	1.53	196.3
	9/16/2024	Not Sampled				
MW-16 (deep)	9/28/2023	6.90	16.3	3,262	2.18	202.6
	12/5/2023	6.60	14.3	3,139	0.19	196.5
	4/1/2024	7.21	15.5	1,880	0.77	191.8
	9/16/2024	5.91	18.7	3,899	3.15	177.5
MW-17 (deep)	9/27/2023	7.41	16.3	2,203	0.51	61.9
	12/6/2023	7.47	13.5	1,838	0.26	168.7
	4/2/2024	7.61	14.8	1,367	0.89	163.5
	9/17/2024	7.56	18.6	2,277	2.27	129.7
MW-20 (shallow)	9/27/2023	7.68	14.6	2,285	0.34	178.6
	12/6/2023	7.37	14.3	2,393	0.22	176.6
	4/2/2024	7.65	14.8	1,186	0.76	174.8
	9/17/2024	7.65	15.7	1,824	2.08	123.3
MW-21	4/3/2024	7.58	14.6	937	4.83	112.5
	9/16/2024	Not Sampled				
MW-24 (shallow)	9/28/2023	7.33	16.5	6,028	0.55	88.8
	12/5/2023	7.56	14.8	3,062	0.22	166.8
	4/1/2024	7.50	17.3	4,036	0.40	175.9
	9/16/2024	7.65	19.3	3,842	2.18	170.7
MW-25 (deep)	9/27/2023	7.52	15.0	2,803	0.63	90.6
	12/6/2023	7.60	12.8	2,077	0.35	153.9
	4/2/2024	7.69	17.2	1,612	1.27	168.0
	9/17/2024	7.72	17.6	2,527	2.36	124.3
MW-26 (shallow)	9/27/2023	7.43	14.5	2,933	0.57	112.2
	12/6/2023	7.53	13.1	2,091	0.18	136.9
	4/2/2024	7.61	15.8	1,551	0.97	168.1
	9/17/2024	7.63	15.8	2,143	2.32	136.9

Table A2
Summary of pH, Temperature, Specific Conductivity, DO, and ORP in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Field Measurements ¹				
		pH	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-28 (shallow)	9/27/2023	8.17	15.9	4,324	0.54	160.5
	12/6/2023	7.88	14.7	3,870	0.91	176.1
	4/2/2024	7.93	15.5	4,198	0.92	174.6
	9/17/2024	7.95	17.5	6,365	2.24	136.5
MW-29 (shallow)	9/27/2023	7.74	13.9	1,433	0.81	185.8
	12/7/2023	7.49	8.8	2,438	0.31	162.6
	4/2/2024	7.57	15.8	870	0.98	167.2
	9/17/2024	7.43	17.4	832	1.14	226.8
MW-30 (shallow)	9/28/2023	8.05	15.3	1,273	0.58	191.7
	12/7/2023	7.58	14.6	2,544	1.24	148.2
	4/2/2024	7.61	16.0	1,358	0.70	168.4
	9/17/2024	7.66	19.3	894	6.35	255.1
MW-31 (deep)	9/28/2023	8.01	15.5	2,137	0.26	172.9
	12/7/2023	7.65	14.4	3,735	0.85	133.8
	4/2/2024	7.73	15.8	1,486	0.61	166.9
	9/17/2024	7.60	19.6	1,309	0.45	186.2
MW-32 (shallow)	6/27/2023	7.61	15.0	1,051	4.19	209.2
	9/27/2023	7.54	13.5	1,339	5.75	139.6
	12/7/2023	7.62	12.6	1,160	5.48	198.6
	4/2/2024	7.68	13.3	867	5.39	204.0
	9/16/2024	Not Sampled				
MW-33 (deep)	6/27/2023	7.53	16.3	1,071	2.90	232.4
	9/27/2023	7.49	13.5	1,382	3.36	133.8
	12/7/2023	7.57	12.7	1,123	3.50	191.4
	4/2/2024	7.61	13.1	880	4.18	205.7
	9/16/2024	Not Sampled				
MW-34 (deep)	6/27/2023	7.62	19.4	1,599	0.61	127.9
	9/27/2023	7.94	15.4	1,608	1.02	183.9
	12/6/2023	7.62	14.3	2,640	1.60	198.0
	4/3/2024	7.77	13.8	958	1.94	190.4
	9/16/2024	Not Sampled				
MW-35 (shallow)	6/27/2023	8.03	18.4	570	8.72	139.1
	9/27/2023	8.29	17.5	553	8.20	179.2
	12/6/2023	7.64	14.5	2,676	1.02	190.6
	4/3/2024	7.68	14.1	1,128	1.69	206.5
	9/16/2024	Not Sampled				
MW-36 (shallow)	9/27/2023	7.99	14.1	1,153	5.56	187.8
	12/6/2023	7.66	12.6	2,047	5.41	214.8
	4/2/2024	7.72	17.0	695	5.04	132.5
	9/17/2024	7.65	20.8	892	6.02	235.8

Table A2
Summary of pH, Temperature, Specific Conductivity, DO, and ORP in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Field Measurements ¹				
		pH	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-37 (shallow)	6/27/2023	7.68	17.7	1,041	4.57	214.8
	9/27/2023	7.96	14.4	1,376	4.28	198.0
	12/6/2023	7.65	13.7	2,124	5.49	209.8
	4/2/2024	7.76	17.4	698	4.76	133.1
	9/16/2024	Not Sampled				
MW-38 (shallow)	9/26/2023	7.80	17.0	1,602	0.20	127.5
	12/6/2023	7.54	14.4	2,751	0.22	199.4
	4/2/2024	7.62	17.6	885	0.35	121.0
	9/17/2024	7.55	18.7	989	0.46	122.3
MW-39 (deep)	9/26/2023	7.93	17.5	1,186	3.99	146.1
	12/6/2023	7.64	13.8	2,269	1.97	204.9
	4/2/2024	7.74	18.9	723	3.47	128.0
	9/17/2024	7.70	18.7	793	5.21	190.7
MW-40 (shallow)	6/27/2023	7.60	18.1	898	5.36	218.8
	9/26/2023	7.82	16.6	1,114	5.27	161.4
	12/6/2023	7.52	14.6	2,276	5.50	202.1
	4/2/2024	7.62	18.0	734	5.08	134.3
	9/16/2024	Not Sampled				
MW-41 (shallow)	6/27/2023	7.62	17.0	649	0.30	116.1
	9/26/2023	7.84	15.2	708	0.33	163.3
	12/6/2023	7.33	13.9	2,182	2.96	180.4
	4/2/2024	7.50	16.6	747	0.42	136.5
	9/16/2024	Not Sampled				
MW-42 (shallow)	9/26/2023	7.85	14.8	1,254	4.84	198.5
	12/5/2023	7.56	12.7	2,236	5.87	244.0
	4/2/2024	7.71	15.0	602	5.14	140.9
	9/16/2024	7.53	16.5	862	4.93	278.8
MW-43 (shallow)	9/26/2023	7.81	13.7	992	5.12	213.5
	12/5/2023	7.45	12.1	2,475	0.36	230.3
	4/2/2024	7.62	14.6	786	1.41	132.2
	9/16/2024	7.60	16.1	709	4.19	252.5
MW-44 (deep)	9/26/2023	7.97	14.4	1,144	4.28	204.9
	12/5/2023	7.66	11.9	2,104	4.00	240.3
	4/2/2024	7.81	14.6	670	3.58	134.9
	9/16/2024	7.67	17.0	781	4.16	258.2
MW-45 (shallow)	9/27/2023	7.95	14.7	1,992	4.36	210.3
	12/6/2023	7.60	14.3	3,397	4.75	208.0
	4/2/2024	7.65	18.3	1,195	3.40	139.4
	9/17/2024	7.57	17.5	1,297	3.70	216.3

Table A2
Summary of pH, Temperature, Specific Conductivity, DO, and ORP in Groundwater
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Monitoring Well Identification	Sample Date	Field Measurements ¹				
		pH	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-46 (shallow)	9/26/2023	7.71	14.0	1,542	0.46	225.7
	12/5/2023	7.42	12.9	2,520	3.17	254.6
	4/2/2024	7.71	14.6	854	2.97	136.7
	9/16/2024	7.57	16.5	843	0.55	207.4

NOTES:

¹pH, temperature, conductivity, DO, and ORP in the field using a water-quality analyzer with a flow-through cell once stabilization had been achieved immediately prior to sample collection.

²ORP probe malfunction.

³pH probe malfunction.

⁴Specific Conductivity probe malfunction.

⁵DO probe malfunction.

°C = degrees Celsius

DO = dissolved oxygen

mg/L = milligrams per liter

µS/cm = microSiemens per centimeter

mV = millivolts

ORP = oxidation-reduction potential

**ATTACHMENT A
LABORATORY ANALYTICAL REPORTS**

**SEPTEMBER 2024 PERFORMANCE AIR AND GROUNDWATER COMPLIANCE
MONITORING REPORT**

**Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington**

Farallon PN: 301-001



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 24, 2024

Tracey Mulhern
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 301-001
Laboratory Reference No. 2409-214

Dear Tracey:

Enclosed are the analytical results and associated quality control data for samples submitted on September 18, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: September 24, 2024
Samples Submitted: September 18, 2024
Laboratory Reference: 2409-214
Project: 301-001

Case Narrative

Samples were collected on September 16 and 17, 2024 and received by the laboratory on September 18, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-091624-P-GW					
Laboratory ID:	09-214-01					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	2.8	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	11	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	84	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	94	78-117				

Client ID:	MW-46-091624-P-GW					
Laboratory ID:	09-214-02					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	0.20	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	84	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	93	78-117				



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-091624-P-GW					
Laboratory ID:	09-214-03					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.85	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	84	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				

Client ID:	MW-43-091624-P-GW					
Laboratory ID:	09-214-04					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	93	78-117				



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-44-091624-P-GW					
Laboratory ID:	09-214-05					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				

Client ID:	MW-16-091624-P-GW					
Laboratory ID:	09-214-06					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	0.90	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	4.7	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-42-091624-P-GW					
Laboratory ID:	09-214-07					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.49	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				

Client ID:	MW-5-091624-P-GW					
Laboratory ID:	09-214-08					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-091724-P-GW					
Laboratory ID:	09-214-09					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	1.3	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.30	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				

Client ID:	MW-39-091724-P-GW					
Laboratory ID:	09-214-10					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	88	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	94	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13-091724-P-GW					
Laboratory ID:	09-214-11					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	1.2	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	1.3	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	88	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				

Client ID:	MW-38-091724-P-GW					
Laboratory ID:	09-214-12					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	2.5	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	84	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-091724-P-GW					
Laboratory ID:	09-214-13					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	0.93	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.55	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				
Client ID:	MW-45-091724-P-GW					
Laboratory ID:	09-214-14					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	0.29	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.22	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	90	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-17-091724-P-GW					
Laboratory ID:	09-214-15					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	1.7	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	1.4	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	90	78-117				

Client ID:	MW-36-091724-P-GW					
Laboratory ID:	09-214-16					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	0.67	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	95	79-123				
<i>4-Bromofluorobenzene</i>	93	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28-091724-P-GW					
Laboratory ID:	09-214-17					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	12	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.34	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	92	78-117				

Client ID:	MW-20-091724-P-GW					
Laboratory ID:	09-214-18					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	0.50	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	1.2	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	93	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26-091724-P-GW					
Laboratory ID:	09-214-19					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	0.32	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				

Client ID:	MW-31-091724-P-GW					
Laboratory ID:	09-214-20					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	8.1	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	0.71	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	94	79-123				
<i>4-Bromofluorobenzene</i>	91	78-117				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-30-091724-P-GW					
Laboratory ID:	09-214-21					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	99	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				

Client ID:	MW-25-091724-P-GW					
Laboratory ID:	09-214-22					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	3.9	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	0.48	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	68-133				
<i>Toluene-d8</i>	97	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	QA/QC-2-091724-P-GW					
Laboratory ID:	09-214-23					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	3.9	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	0.45	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	88	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				

Client ID:	MW-29-091724-P-GW					
Laboratory ID:	09-214-24					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	0.27	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	0.44	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	68-133				
<i>Toluene-d8</i>	98	79-123				
<i>4-Bromofluorobenzene</i>	101	78-117				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	QA/QC-1-091624-P-GW					
Laboratory ID:	09-214-25					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	3.3	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	10	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	89	68-133				
<i>Toluene-d8</i>	98	79-123				
<i>4-Bromofluorobenzene</i>	103	78-117				

Client ID:	TB-091724					
Laboratory ID:	09-214-28					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	88	68-133				
<i>Toluene-d8</i>	96	79-123				
<i>4-Bromofluorobenzene</i>	98	78-117				



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W2					
Vinyl Chloride	ND	0.20	EPA 8260D	9-19-24	9-19-24	
Chloroform	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-19-24	9-19-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-117</i>				
Laboratory ID:	MB0920W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-20-24	9-20-24	
Chloroform	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-20-24	9-20-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-117</i>				



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	
					Recovery	Limits	RPD	Limit	Flags
SPIKE BLANKS									
Laboratory ID:	SB0919W2								
	SB	SBD	SB	SBD	SB	SBD			
Vinyl Chloride	8.17	8.33	10.0	10.0	82	83	67-130	2	15
Chloroform	8.45	8.43	10.0	10.0	85	84	73-128	0	15
1,2-Dichloroethane	9.17	9.10	10.0	10.0	92	91	68-133	1	15
1,2-Dichloropropane	9.54	9.57	10.0	10.0	95	96	78-124	0	15
1,1,2-Trichloroethane	9.66	9.91	10.0	10.0	97	99	80-124	3	15
1,2-Dibromoethane	10.9	11.2	10.0	10.0	109	112	82-129	3	15
1,2,3-Trichloropropane	8.43	8.91	10.0	10.0	84	89	67-127	6	18
<i>Surrogate:</i>									
Dibromofluoromethane					86	85	68-133		
Toluene-d8					95	93	79-123		
4-Bromofluorobenzene					96	94	78-117		
Laboratory ID:	SB0920W1								
	SB	SBD	SB	SBD	SB	SBD			
Vinyl Chloride	9.24	9.16	10.0	10.0	92	92	67-130	1	15
Chloroform	9.73	9.93	10.0	10.0	97	99	73-128	2	15
1,2-Dichloroethane	9.93	9.75	10.0	10.0	99	98	68-133	2	15
1,2-Dichloropropane	11.2	11.1	10.0	10.0	112	111	78-124	1	15
1,1,2-Trichloroethane	10.8	10.6	10.0	10.0	108	106	80-124	2	15
1,2-Dibromoethane	10.9	11.3	10.0	10.0	109	113	82-129	4	15
1,2,3-Trichloropropane	9.93	9.92	10.0	10.0	99	99	67-127	0	18
<i>Surrogate:</i>									
Dibromofluoromethane					86	86	68-133		
Toluene-d8					98	100	79-123		
4-Bromofluorobenzene					103	105	78-117		



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

VOLATILE ORGANICS EPA 8260D

Matrix: Air
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	ECF1E-091724-P-A					
Laboratory ID:	09-214-26					
Vinyl Chloride	ND	1.0	EPA 8260D	9-18-24	9-18-24	
Chloroform	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dibromoethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	89	68-133				
<i>Toluene-d8</i>	96	79-123				
<i>4-Bromofluorobenzene</i>	99	78-117				
Client ID:	AAE-091724-P-A					
Laboratory ID:	09-214-27					
Vinyl Chloride	ND	1.0	EPA 8260D	9-18-24	9-18-24	
Chloroform	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dibromoethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	91	68-133				
<i>Toluene-d8</i>	100	79-123				
<i>4-Bromofluorobenzene</i>	100	78-117				



Date of Report: September 24, 2024
 Samples Submitted: September 18, 2024
 Laboratory Reference: 2409-214
 Project: 301-001

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Air
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918A1					
Vinyl Chloride	ND	1.0	EPA 8260D	9-18-24	9-18-24	
Chloroform	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2-Dibromoethane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	9-18-24	9-18-24	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>68-133</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>79-123</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-117</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-214-26							
	ORIG	DUP						
Vinyl Chloride	ND	ND	NA	NA	NA	NA	NA	30
Chloroform	ND	ND	NA	NA	NA	NA	NA	30
1,2-Dichloroethane	ND	ND	NA	NA	NA	NA	NA	30
1,2-Dichloropropane	ND	ND	NA	NA	NA	NA	NA	30
1,1,2-Trichloroethane	ND	ND	NA	NA	NA	NA	NA	30
1,2-Dibromoethane	ND	ND	NA	NA	NA	NA	NA	30
1,2,3-Trichloropropane	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Dibromofluoromethane</i>				89	90	68-133		
<i>Toluene-d8</i>				96	99	79-123		
<i>4-Bromofluorobenzene</i>				99	101	78-117		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: **09-214**

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)

_____ (other)

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	
NWTPH-Gx	
NWTPH-Dx (SG Clean-up <input type="checkbox"/>)	
Volatiles 8260 <input checked="" type="checkbox"/>	
Halogenated Volatiles 8260	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	
% Moisture	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	MW-24-091624-P-GW	9/16/24	1414	HAZ	3			
2	MW-41e-091624-P-GW		1415					
3	MW-3-091624-P-GW		1452					
4	MW-43-091624-P-GW		1500					
5	MW-44-091624-P-GW		1535					
6	MW-16-091624-P-GW		1540					
7	MW-42-091624-P-GW		1620					
8	MW-5-091624-P-GW		1615					
9	MW-7-091724-P-GW	9/17/24	1010					
10	MW-39-091724-P-GW		1030					
Relinquished	Signature: <i>[Signature]</i>	Company: FLN	Date: 9/18/24	Time: 1028	Comments/Special Instructions: Please only analyze for: - chloroform - 1,2-dibromoethane - 1,2-dichloroethane - 1,2-dichloropropane - 1,1,2-trichloroethane - 1,1,2,3-tetrachloropropane - vinyl chloride Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>			
Received								
Relinquished								
Received								
Relinquished								
Received								
Relinquished								
Reviewed/Date								



MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: Forallan
 Project Number: 991-001
 Project Name: Genex Quincy
 Project Manager: T. Mulhern
 Sampled by: A. Osman / S. Katz

Turnaround Request (in working days)
 (Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)

(other) _____

Date Sampled: 9/17/04 Time Sampled: 1047 Matrix: H₂O

Number of Containers: 3

Laboratory Number: **09-214**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/>)</th> <th>NWTPH-Gx</th> <th>NWTPH-Dx (SG Clean-up <input type="/>)	Volatiles 8260 <input 150="" 200"="" 265="" 285="" checked="" data-label="Text" type="checkbox/>)</th> <th>Halogenated Volatiles 8260</th> <th>EDB EPA 8011 (Waters Only)</th> <th>Semivolatiles 8270/SIM (with low-level PAHs)</th> <th>PAHs 8270/SIM (low-level)</th> <th>PCBs 8082</th> <th>Organochlorine Pesticides 8081</th> <th>Organophosphorus Pesticides 8270/SIM</th> <th>Chlorinated Acid Herbicides 8151</th> <th>Total RCRA Metals</th> <th>Total MTCA Metals</th> <th>TCLP Metals</th> <th>HEM (oil and grease) 1664</th> <th>% Moisture</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>MW-13-091724-P-GW</td> <td>9/17/04</td> <td>1047</td> <td>H<sub>2</sub>O</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>MW-38-091724-P-GW</td> <td></td> <td>1160</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>MW-6-091724-P-GW</td> <td></td> <td>1115</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>MW-45-091724-P-GW</td> <td></td> <td>1135</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>MW-17-091724-P-GW</td> <td></td> <td>1151</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>MW-26-091724-P-GW</td> <td></td> <td>1220</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>MW-28-091724-P-GW</td> <td></td> <td>1227</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>MW-20-091724-P-GW</td> <td></td> <td>1366</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>MW-26-091724-P-GW</td> <td></td> <td>1339</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>MW-31-091724-P-GW</td> <td></td> <td>1345</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div data-bbox="/> <p>Signature</p>
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[Signature]

Company

FLN

Date

9/18/04

Time

1028

Comments/Special Instructions

Please Only Analyze For:

- Chloroform
- 1,2-dichloroethane
- 1,2-dichlorobenzene
- 1,2-dichloropropane
- 1,1,2-trichloroethane
- 1,2,3-trichloropropane
- Vinyl chloride

Data Package: Standard Level III Level IV

Received/Date _____ Reviewed/Date _____

Chromatograms with final report Electronic Data Deliverables (EDDs)



MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)

(other) _____

Laboratory Number: 09-214

Company: Farallon
 Project Number: 301-001
 Project Name: Cerex Quincy
 Project Manager: T. Williams
 Sampled by: A. Deman / S. Katz

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
21	MW-30-091724-P-GW	9-17-24	1410	Had	3
22	MW-25-091724-P-GW		1411		
23	QA/QC-2-091724-P-GW		1416		
24	MW-29-091724-P-GW		1455		
25	QA/QC-1-091624-P-GW	9/16/24	1402		
26	ECFIE-091724-P-A	9/17/24	1515	Air	1
27	ARE-091724-P-A		1520		1
28	TB-091724	9/17/24	1530	Had	3

Method	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
NWTPH-HCID														
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)														
NWTPH-Gx														
NWTPH-Dx (SG Clean-up <input type="checkbox"/>)														
Volatiles 8260 <input checked="" type="checkbox"/>	X													
Halogenated Volatiles 8260														
EDB EPA 8011 (Waters Only)														
Semivolatiles 8270/SIM (with low-level PAHs)														
PAHs 8270/SIM (low-level)														
PCBs 8082														
Organochlorine Pesticides 8081														
Organophosphorus Pesticides 8270/SIM														
Chlorinated Acid Herbicides 8151														
Total RCRA Metals														
Total MTCA Metals														
TCLP Metals														
HEM (oil and grease) 1664														
% Moisture														

Signature: [Handwritten Signature]
 Company: FLN
 Date: 9/18/24
 Time: 1028

Comments/Special Instructions:
 Please Only Analyze For:
 - Chloroform
 - 1,2-dibromoethane
 - 1,2-dichloroethane
 - 1,2-dichloropropane
 - 1,1,2-trichloroethane
 - 1,2,3-trichloropropane
 - Vinyl Chloride

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)

6/26/2024

Ms. Tracey Mulhern
Farallon Consulting, LLC
1201 Cornwall Avenue
Suite 105
Bellingham WA 98225

Project Name: Cenex Quincy
Project #:
Workorder #: 2406428

Dear Ms. Tracey Mulhern

The following report includes the data for the above referenced project for sample(s) received on 6/12/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2406428

Work Order Summary

CLIENT: Ms. Tracey Mulhern
Farallon Consulting, LLC
1201 Cornwall Avenue
Suite 105
Bellingham, WA 98225

BILL TO: Ms. Monica Tran
Eurofins Air Toxics
180 Blue Ravine Road
Suite B
Folsom, CA 95630

PHONE: 360.527.0241

P.O. # 301-001

FAX: 360.527.0243

PROJECT # Cenex Quincy

DATE RECEIVED: 06/12/2024

CONTACT: Monica Tran

DATE COMPLETED: 06/26/2024

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	MSW-060724-P-A	Modified TO-15	9 "Hg	1.9 psi
02A	OVERALL-060724-P-A	Modified TO-15	6.3 "Hg	1.9 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 06/26/24

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000

LABORATORY NARRATIVE
Modified TO-15
Farallon Consulting, LLC
Workorder# 2406428

Two 6 Liter Summa Canister (100% Certified) samples were received on June 12, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

The Chain of Custody was missing method information. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: MSW-060724-P-A

Lab ID#: 2406428-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloropropane	0.16	1.1	0.74	5.2

Client Sample ID: OVERALL-060724-P-A

Lab ID#: 2406428-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloropropane	0.14	1.2	0.66	5.7



Air Toxics

Client Sample ID: MSW-060724-P-A

Lab ID#: 2406428-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062524	Date of Collection:	6/7/24 2:27:00 PM
Dil. Factor:	1.61	Date of Analysis:	6/26/24 02:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
1,2-Dichloropropane	0.16	1.1	0.74	5.2
1,1,2-Trichloroethane	0.16	Not Detected	0.88	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
1,2,3-Trichloropropane	0.80	Not Detected	4.8	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: OVERALL-060724-P-A

Lab ID#: 2406428-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062525	Date of Collection:	6/7/24 3:17:00 PM
Dil. Factor:	1.43	Date of Analysis:	6/26/24 03:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
1,2-Dichloropropane	0.14	1.2	0.66	5.7
1,1,2-Trichloroethane	0.14	Not Detected	0.78	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
1,2,3-Trichloropropane	0.72	Not Detected	4.3	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2406428-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062507d	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/25/24 01:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
1,2,3-Trichloropropane	0.50	Not Detected	3.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2406428-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/25/24 10:50 AM

Compound	%Recovery
Vinyl Chloride	94
Chloroform	96
1,2-Dichloroethane	92
1,2-Dichloropropane	89
1,1,2-Trichloroethane	105
1,2-Dibromoethane (EDB)	111
1,2,3-Trichloropropane	116

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2406428-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/25/24 11:23 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	113	70-130
Chloroform	97	70-130
1,2-Dichloroethane	100	70-130
1,2-Dichloropropane	89	70-130
1,1,2-Trichloroethane	106	70-130
1,2-Dibromoethane (EDB)	113	70-130
1,2,3-Trichloropropane	119	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2406428-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	21062505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/25/24 11:55 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	115	70-130
Chloroform	96	70-130
1,2-Dichloroethane	113	70-130
1,2-Dichloropropane	99	70-130
1,1,2-Trichloroethane	104	70-130
1,2-Dibromoethane (EDB)	111	70-130
1,2,3-Trichloropropane	119	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Method : Modified TO-15-LL (Sp)-Farallon (Cenex Quincy)

CAS Number	Compound	Rpt. Limit (ppbv)
75-01-4	Vinyl Chloride	0.10
67-66-3	Chloroform	0.10
107-06-2	1,2-Dichloroethane	0.10
78-87-5	1,2-Dichloropropane	0.10
79-00-5	1,1,2-Trichloroethane	0.10
106-93-4	1,2-Dibromoethane (EDB)	0.10
96-18-4	1,2,3-Trichloropropane	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130

180 Blue Ravine Rd, Suite B, Folsom, CA 95630
 Phone (800) 985-5955; Fax (916) 351-8279

 PID: _____
 Workorder #: **2406428**

For Laboratory Use Only

 Click links below to view:
[Canister Sampling Guide](#)
[Helium Stray Video](#)

Turnaround Time (Rush surcharges may apply)

Select TAT from drop down box

 Client: Facion Consulting PID: _____
 Project Name: Conte Quarry
 Project Manager: Tracy Mulhern P.O.# 301-001
 Sampler: Brethen Laitkin
 Site Name: _____

 Special Instructions/Notes:
 analysis: Chloroform, 1,2-dichloroethane, 1,2-dichloroethane, 1,2-dichloroethane, 1,2-dichloroethane, 1,3-dichloropropane, 1,3-dichloropropane, 1,3,3-trichloropropane, and Vinyl Chloride

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N ₂ / He	Requested Analyses
				Date	Time	Date	Time					

O1A	ASW-066724-P-A	3344	21407	06/24	1335	06/24	1407	28.5	5.0			
O2A	VERAIL-060724-P-A	612357	25465	06/24	1433	06/24	1517	28.9	4.4			

 Relinquished by: (Signature/Affiliation) Paula Kelly Facion Date 6/10/24 Time 1400
 Received by: (Signature/Affiliation) [Signature] Date 6/12/24 Time 1439

 Relinquished by: (Signature/Affiliation) _____ Date _____ Time _____
 Received by: (Signature/Affiliation) _____ Date _____ Time _____

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 Received by: (Signature/Affiliation) _____ Date _____ Time _____

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 Received by: (Signature/Affiliation) _____ Date _____ Time _____

 Relinquished by: (Signature/Affiliation) _____ Date _____ Time _____
 Received by: (Signature/Affiliation) _____ Date _____ Time _____

 Shipper Name: FOX Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T Hotline (800) 467-4922

10/22/2024

Ms. Tracey Mulhern
Farallon Consulting, LLC
1201 Cornwall Avenue
Suite 105
Bellingham WA 98225

Project Name: CHS Quincy
Project #: 301-001
Workorder #: 2410113

Dear Ms. Tracey Mulhern

The following report includes the data for the above referenced project for sample(s) received on 10/1/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2410113

Work Order Summary

CLIENT:	Ms. Tracey Mulhern Farallon Consulting, LLC 1201 Cornwall Avenue Suite 105 Bellingham, WA 98225	BILL TO:	Accounts Payable Farallon Consulting, LLC 975 Fifth Avenue NW Issaquah, WA 98027-3333
PHONE:	360.527.0241	P.O. #	301-001
FAX:	360.527.0243	PROJECT #	301-001 CHS Quincy
DATE RECEIVED:	10/01/2024	CONTACT:	Monica Tran
DATE COMPLETED:	10/22/2024		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	MSW-092424-P-A	Modified TO-15	7.1 "Hg	1.7 psi
02A	VEW-092424-P-A	Modified TO-15	7.6 "Hg	1.8 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 10/22/24

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP-02089, MN NELAP-2703122, NH NELAP-209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000

LABORATORY NARRATIVE
Modified TO-15
Farallon Consulting, LLC
Workorder# 2410113

Two 6 Liter Summa Canister (100% Certified) samples were received on October 01, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Air Toxics

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: MSW-092424-P-A

Lab ID#: 2410113-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloropropane	0.15	2.3	0.67	11

Client Sample ID: VEW-092424-P-A

Lab ID#: 2410113-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloropropane	0.15	8.4	0.69	39



Air Toxics

Client Sample ID: MSW-092424-P-A

Lab ID#: 2410113-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102108	Date of Collection:	9/24/24 1:01:00 PM
Dil. Factor:	1.46	Date of Analysis:	10/21/24 02:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.37	Not Detected
Chloroform	0.15	Not Detected	0.71	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.59	Not Detected
1,2-Dichloropropane	0.15	2.3	0.67	11
1,1,2-Trichloroethane	0.15	Not Detected	0.80	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected
1,2,3-Trichloropropane	0.73	Not Detected	4.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: VEW-092424-P-A

Lab ID#: 2410113-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102109	Date of Collection:	9/24/24 1:09:00 PM
Dil. Factor:	1.50	Date of Analysis:	10/21/24 03:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.15	Not Detected	0.38	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
1,2-Dichloroethane	0.15	Not Detected	0.61	Not Detected
1,2-Dichloropropane	0.15	8.4	0.69	39
1,1,2-Trichloroethane	0.15	Not Detected	0.82	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.2	Not Detected
1,2,3-Trichloropropane	0.75	Not Detected	4.5	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	111	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2410113-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102107a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/21/24 12:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
1,2,3-Trichloropropane	0.50	Not Detected	3.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	84	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2410113-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/21/24 09:54 AM

Compound	%Recovery
Vinyl Chloride	89
Chloroform	93
1,2-Dichloroethane	73
1,2-Dichloropropane	81
1,1,2-Trichloroethane	90
1,2-Dibromoethane (EDB)	93
1,2,3-Trichloropropane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2410113-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/21/24 10:34 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
Chloroform	94	70-130
1,2-Dichloroethane	76	70-130
1,2-Dichloropropane	82	70-130
1,1,2-Trichloroethane	94	70-130
1,2-Dibromoethane (EDB)	98	70-130
1,2,3-Trichloropropane	93	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	115	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2410113-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	22102105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/21/24 11:13 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	96	70-130
Chloroform	94	70-130
1,2-Dichloroethane	75	70-130
1,2-Dichloropropane	81	70-130
1,1,2-Trichloroethane	95	70-130
1,2-Dibromoethane (EDB)	98	70-130
1,2,3-Trichloropropane	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	115	70-130

Method : Modified TO-15-LL (Sp)-Farallon (Cenex Quincy)

CAS Number	Compound	Rpt. Limit (ppbv)
75-01-4	Vinyl Chloride	0.10
67-66-3	Chloroform	0.10
107-06-2	1,2-Dichloroethane	0.10
78-87-5	1,2-Dichloropropane	0.10
79-00-5	1,1,2-Trichloroethane	0.10
106-93-4	1,2-Dibromoethane (EDB)	0.10
96-18-4	1,2,3-Trichloropropane	0.50

Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4
2037-26-5	Toluene-d8
460-00-4	4-Bromofluorobenzene

Eurofins Air Toxics Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics (EATL). We have received your samples and have listed any Sample Receipt Discrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

SAMPLE RECEIPT SUMMARY

WORKORDER 2410113

Client

Ms. Tracey Mulhern
 Farallon Consulting, LLC
 1201 Cornwall Avenue
 Suite 105
 Bellingham, WA 98225

Phone

360.527.0241

Fax

360.527.0243

Date Promised: 10/14/24

Date Completed:

Date Received: 10/1/24

PO#: 301-001

Project#: 301-001 CHS Quincy

Total \$: \$ 604.00

Logged By: AD

Sales Rep: N/A

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	MSW-092424-P-A	Modified TO-15	9/24/2024	\$150.00
02A	VEW-092424-P-A	Modified TO-15	9/24/2024	\$150.00
Misc. Charges 6 Liter Summa Canister (100% Certified) (2) @ \$70.00 each., Shipmen				\$140.00
Gauge-Vacuum (100% Certified) (1) @ \$17.00 each., Shipment 16392				\$17.00
Soil Gas Manifold (100% Certified) (2) @ \$45.00 each., Shipment 16392				\$90.00
SERWM Fee (2) @ \$2.50 each.				\$5.00
Fitting w/ Pink Ferrule (2) @ \$6.00 each.				\$12.00
Tubing-Teflon (8) @ \$5.00 each.				\$40.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
 Atlas Project Name/Profile#: Cenex Quincy/20188

BILL TO: Accounts Payable
 Farallon Consulting, LLC
 975 Fifth Avenue NW
 Issaquah, WA 98027-3333

Analysis Code: pptv

TERMS:

Reporting Method: Modified TO-15-LL (Sp)-Farallon (Cenex Quincy)
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Method : Modified TO-15-LL (Sp)-Farallon (Cenex Quincy)

CAS Number	Compound	Rpt. Limit (ppbv)
75-01-4	Vinyl Chloride	0.10
67-66-3	Chloroform	0.10
107-06-2	1,2-Dichloroethane	0.10
78-87-5	1,2-Dichloropropane	0.10
79-00-5	1,1,2-Trichloroethane	0.10
106-93-4	1,2-Dibromoethane (EDB)	0.10
96-18-4	1,2,3-Trichloropropane	0.50

CAS Number	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130



Air TOXICS

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd, Suite B, Folsom, CA 95630
Phone (800) 985-5855; Fax (916) 351-8279

Analysis Request / Canister Chain of Custody

Instructions

If no TAT is marked,
EATL will proceed
with Standard TAT

page 1 of 1

Workorder #

2410113

Turnaround Time (Specify Below)

Client: Fallbon Consulting

Site Name: CHS Bunking

Project Manager: Tracy Aulken

Sampler: Braeden Lyman

Project Name: CHS Bunking

Project #: 301-001

PO#: 301-001

Standard X Rush
Samples received after 3PM PST are considered to be received on the following Monday.

Requested Date (mm/dd/yyyy):
OR Number of Days:

Requested Analyses

Canister Vacuum/Pressure

Lab Use Only

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
				Date	Time	Date	Time				
01A	MSW-092424-P-A	6L1179	04626	9/24/24	1227	9/24/24	1301	XX	230.42		
02A	MSW-092424-P-A	6L3006	0524544	9/24/24	1228	9/24/24	1309	XX	265.5.0		

Special Instructions/Notes: * Chloroform, 1,2-dichloroethane, 1,1,2-trichloroethane, 1,2-dibromethane, 1,2-dichloropropane, 1,2,3-Trichloropropane, vinyl chloride

Relinquished by: (Signature/Affiliation) Frank Stalks/Fallbon Consulting Date 9/27/24 Time 1245 Received by: (Signature/Affiliation) Becc Date 10/1/24 Time 1246

Relinquished by: (Signature/Affiliation) Date Time Received by: (Signature/Affiliation) Date Time

Relinquished by: (Signature/Affiliation) Date Time Received by: (Signature/Affiliation) Date Time

Shipper Name: Fedex Custody Seals Intact? Yes No Lab Use Only Condition: None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T.Hedline (800) 467-4922

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

June 20, 2024

Tracey Mulhern, Project Manager
Farallon Consulting, LLC
975 5th Avenue Northwest
Issaquah, WA 98027

Dear Ms Mulhern:

Included are the results from the testing of material submitted on June 10, 2024 from the CHS Quincy 301-001, F&BI 406120 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Farallon Data, Braeden Lukkari
FLN0620R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2024 by Friedman & Bruya, Inc. from the Farallon Consulting, LLC CHS Quincy 301-001, F&BI 406120 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Farallon Consulting, LLC</u>
406120 -01	VEW-03-Perf-060724
406120 -02	VEW-02-Perf-060724
406120 -03	VEW-01-Perf-060724
406120 -04	VEW-04-Perf-060724
406120 -05	VEW-05-Perf-060724
406120 -06	VEW-06-Perf-060724
406120 -07	VEW-09-Perf-060724
406120 -08	VEW-08-Perf-060724
406120 -09	VEW-07-Perf-060724

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-03-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-01 1/5.4
Date Analyzed:	06/12/24	Data File:	061217.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	6.7	1.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-02-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-02 1/6.2
Date Analyzed:	06/12/24	Data File:	061219.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	19	4.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-01-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-03 1/5.8
Date Analyzed:	06/12/24	Data File:	061220.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	21	4.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-04-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-04 1/5.8
Date Analyzed:	06/12/24	Data File:	061221.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	<1.3	<0.29

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-05-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-05 1/5.5
Date Analyzed:	06/12/24	Data File:	061222.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	1.5	0.32

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-06-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-06 1/6.1
Date Analyzed:	06/13/24	Data File:	061223.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	3.7	0.80

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-09-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-07 1/5.5
Date Analyzed:	06/13/24	Data File:	061224.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	3.8	0.82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-08-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-08 1/5.9
Date Analyzed:	06/13/24	Data File:	061225.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	1.8	0.40

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VEW-07-Perf-060724	Client:	Farallon Consulting, LLC
Date Received:	06/10/24	Project:	CHS Quincy 301-001
Date Collected:	06/07/24	Lab ID:	406120-09 1/5.9
Date Analyzed:	06/13/24	Data File:	061226.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	2.0	0.42

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Farallon Consulting, LLC
Date Received:	Not Applicable	Project:	CHS Quincy 301-001
Date Collected:	Not Applicable	Lab ID:	04-1302 mb
Date Analyzed:	06/12/24	Data File:	061211.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration	
	ug/m3	ppbv
1,2-Dichloropropane	<0.23	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/24

Date Received: 06/10/24

Project: CHS Quincy 301-001, F&BI 406120

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 406120-01 1/5.4 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
1,2-Dichloropropane	ug/m3	6.7	7.0	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
1,2-Dichloropropane	ug/m3	62	101	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

406120

Tacey Mulhern, Braden Luker

SAMPLE CHAIN OF CUSTODY

06/10/24

Report To

Company Focallon

Address

City, State, ZIP

Phone 714-714-7147 Email tfocallon@focallon.com

Page # 1 of 2

TURNAROUND TIME

Standard RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Default: Clean following final report delivery Hold (Fee may apply):

SAMPLERS (signature) [Signature]

PROJECT NAME & ADDRESS

CHS Quincy

PO # 301-001

NOTES: waiting low-level results

INVOICE TO

AP

SAMPLE INFORMATION

ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
NEW-03-Perf-060724	01	8538	80	IA / SG	6/7/24	30.0	0944	5.0	0949						
NEW-03-Perf-060724	02	3540	70	IA / SG		27.5	0957	5.0	1002						
NEW-01-Perf-060724	03	3387	307	IA / SG		29.2	1011	5.0	1016						
NEW-04-Perf-060724	04	3384	69	IA / SG		27.5	1028	4.5	1033						
NEW-05-Perf-060724	05	8300	92	IA / SG		27.5	1044	4.0	1049						
NEW-06-Perf-060724	06	3417	55	IA / SG		30.0	1100	5.0	1105						
NEW-09-Perf-060724	07	8209	53	IA / SG		29.0	1116	4.0	1121						
NEW-08-Perf-060724	08	2438	07	IA / SG		29.0	1129	5.0	1134						

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS.COC\COCTO-15.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Braden Luker

Focallon

6/10/24

14:03

Received by: [Signature]

ANHPHAN

F8D

06/10/24

14:03

Received by:

Samples received at 20

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 406120 CLIENT FLN INITIALS/ DATE: AP 06/10/24

If custody seals are present on cooler, are they intact? NA YES NO

Cooler/Sample temperature 20 °C Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? YES NO

How did samples arrive? Over the Counter Picked up by F&BI FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? YES NO Initials/ Date: AP 06/10/24
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 3 days

Are the samples clearly identified? (explain "no" answer below) YES NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) YES NO

Were appropriate sample containers used? YES NO Unknown

If custody seals are present on samples, are they intact? NA YES NO

Are samples requiring no headspace, headspace free? NA YES NO

Is the following information provided on the COC, and does it match the sample label? (explain "no" answer below)

- Sample ID's Yes No Not on COC/label
- Date Sampled Yes No Not on COC/label
- Time Sampled Yes No Not on COC/label
- # of Containers Yes No
- Relinquished Yes No
- Requested analysis Yes On Hold

Other comments (use a separate page if needed)

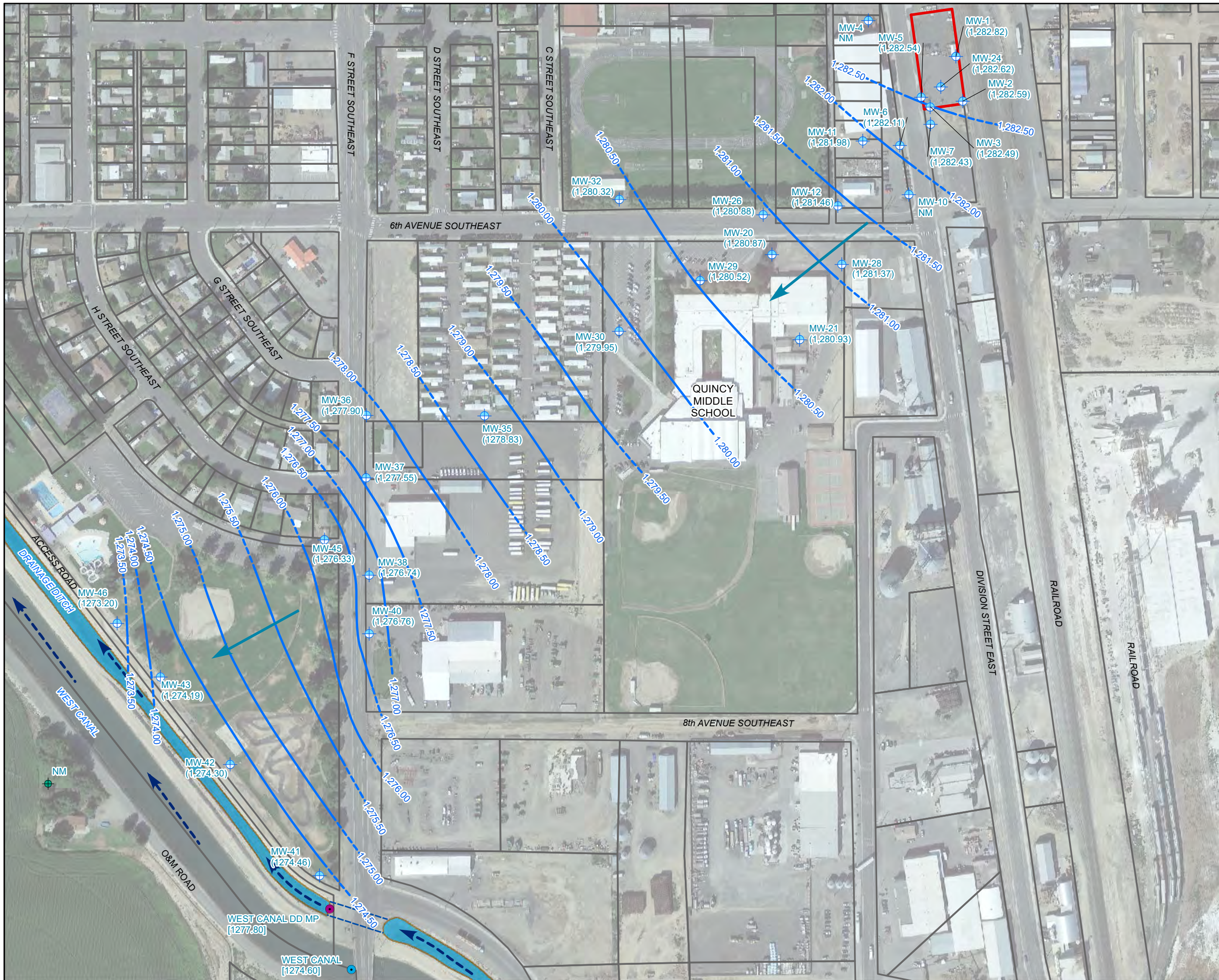
Air Samples: Were any additional canisters/tubes received? NA YES NO

Number of unused TO15 canisters _____ Number of unused TO17 tubes _____

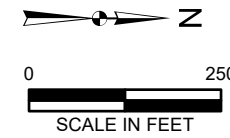
APPENDIX B
GROUNDWATER ELEVATION CONTOUR FIGURES

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001



- LEGEND**
- MONITORING WELL (SHALLOW)
 - WEST CANAL SURVEYED MEASURING POINT
 - WEST CANAL DRAINAGE DITCH SURVEYED MEASURING POINT
 - DOMESTIC WELL
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - CULVERT
 - CHS PROPERTY BOUNDARY
 - GRANT COUNTY PARCEL BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION
 - GROUNDWATER ELEVATION MEASURED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM 1988
 - SURFACE WATER ELEVATION
 - GROUNDWATER ELEVATION NOT MEASURED
 - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 - APPROXIMATE DIRECTION OF SHALLOW GROUNDWATER FLOW



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE B1
 GROUNDWATER ELEVATION CONTOUR MAP,
 DECEMBER 4, 2023
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001

FARALLON
CONSULTING

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Washington
Bellevue | Bellingham | Seattle

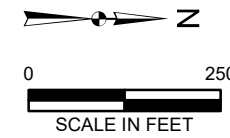
Oregon
Portland | Baker City

California
Oakland | Irvine

Drawn By: aguse Checked By: TM Date: 11/27/2024



- LEGEND**
- MONITORING WELL (SHALLOW)
 - WEST CANAL SURVEYED MEASURING POINT
 - WEST CANAL DRAINAGE DITCH SURVEYED MEASURING POINT
 - DOMESTIC WELL
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - CULVERT
 - CHS PROPERTY BOUNDARY
 - GRANT COUNTY PARCEL BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - GROUNDWATER ELEVATION
 (1,281.40) MEASURED IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM 1988
 [1,276.70] SURFACE WATER ELEVATION
 - NM GROUNDWATER ELEVATION NOT MEASURED
 - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 - APPROXIMATE DIRECTION OF SHALLOW GROUNDWATER FLOW



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE B2
 GROUNDWATER ELEVATION CONTOUR MAP,
 APRIL 1, 2024
 CENEX HARVEST STATES COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001

Washington
 Bellevue | Bellingham | Seattle
 Oregon
 Portland | Baker City
 California
 Oakland | Irvine

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APPENDIX C
ISOCONCENTRATION CONTOUR AND GROUNDWATER ANALYTICAL RESULT
FIGURES

2024 ANNUAL REPORT
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- LEGEND**
- MONITORING WELL (SHALLOW)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.40] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (ug/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 ug/l

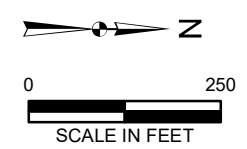
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN ug/l

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
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FIGURE C1

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS - DECEMBER 2023
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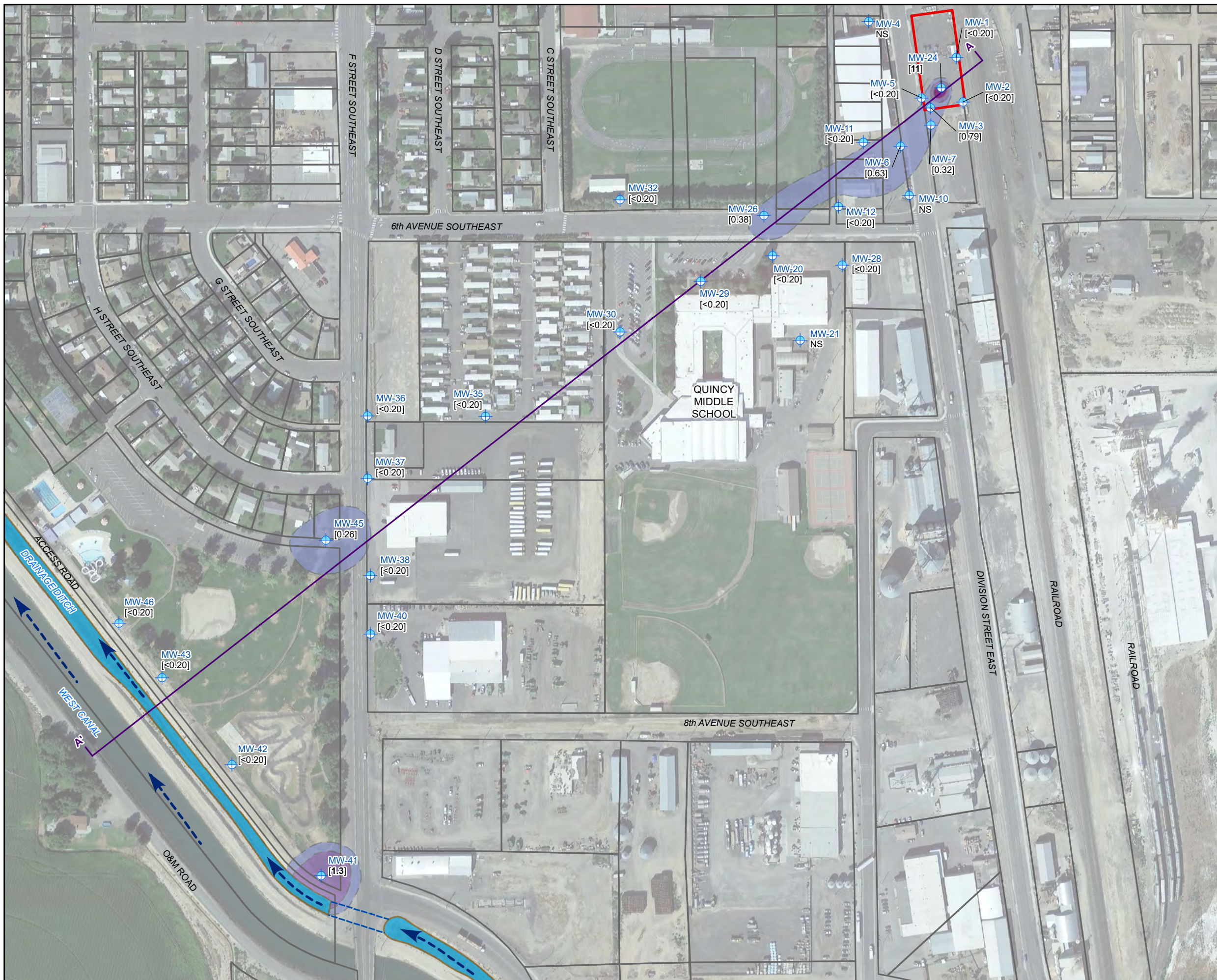
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- MONITORING WELL (SHALLOW)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.38] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

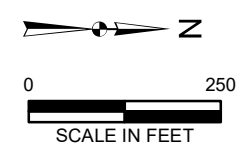
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25



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FIGURE C2

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS - DECEMBER 2023
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LEGEND

- MONITORING WELL (SHALLOW)
- CURRENT SITE
- FORMER SITE
- CHS PROPERTY BOUNDARY

[0.4] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



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FIGURE C3

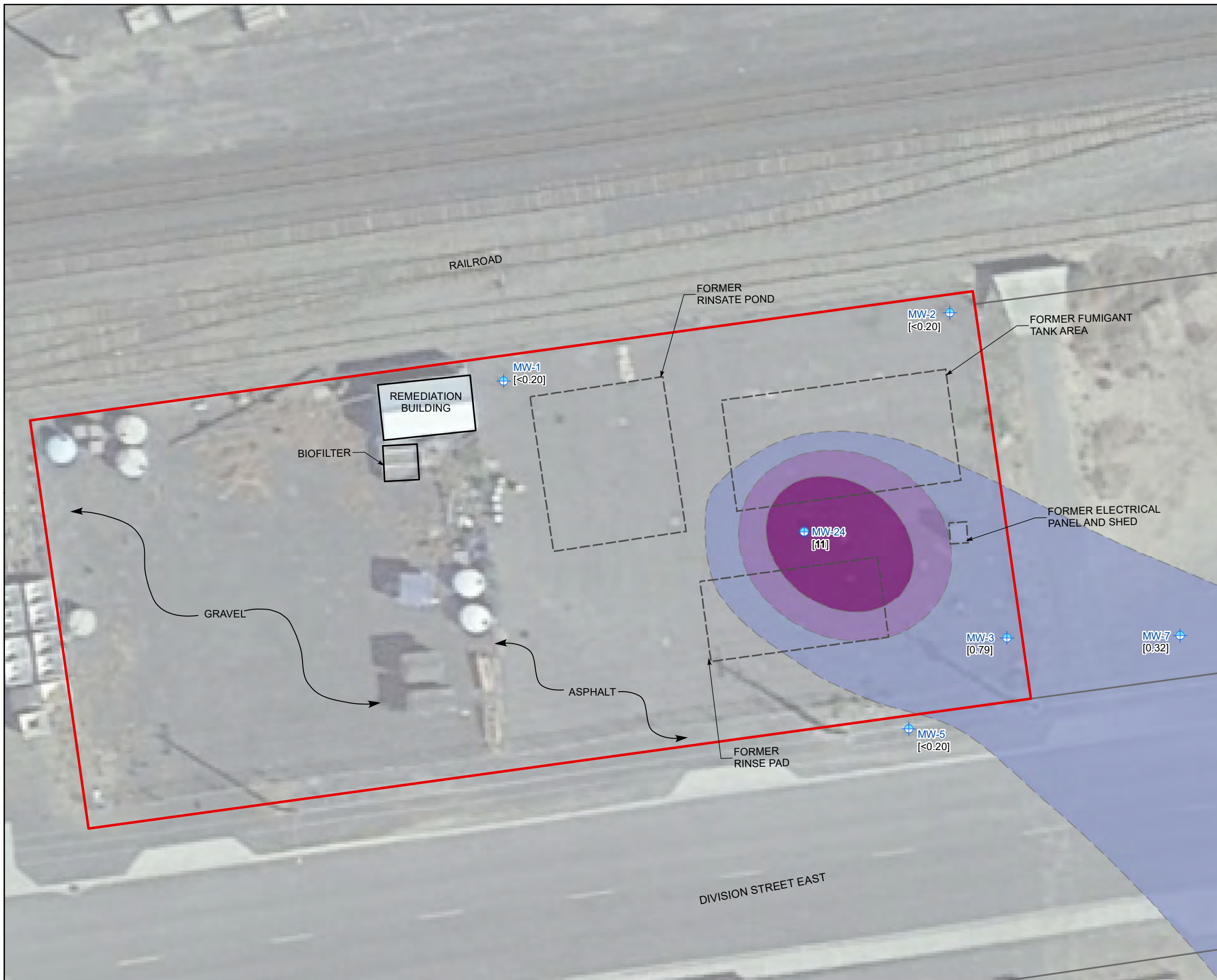
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - DECEMBER 2023
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LEGEND

- MONITORING WELL (SHALLOW)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[0.79] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25



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FIGURE C4

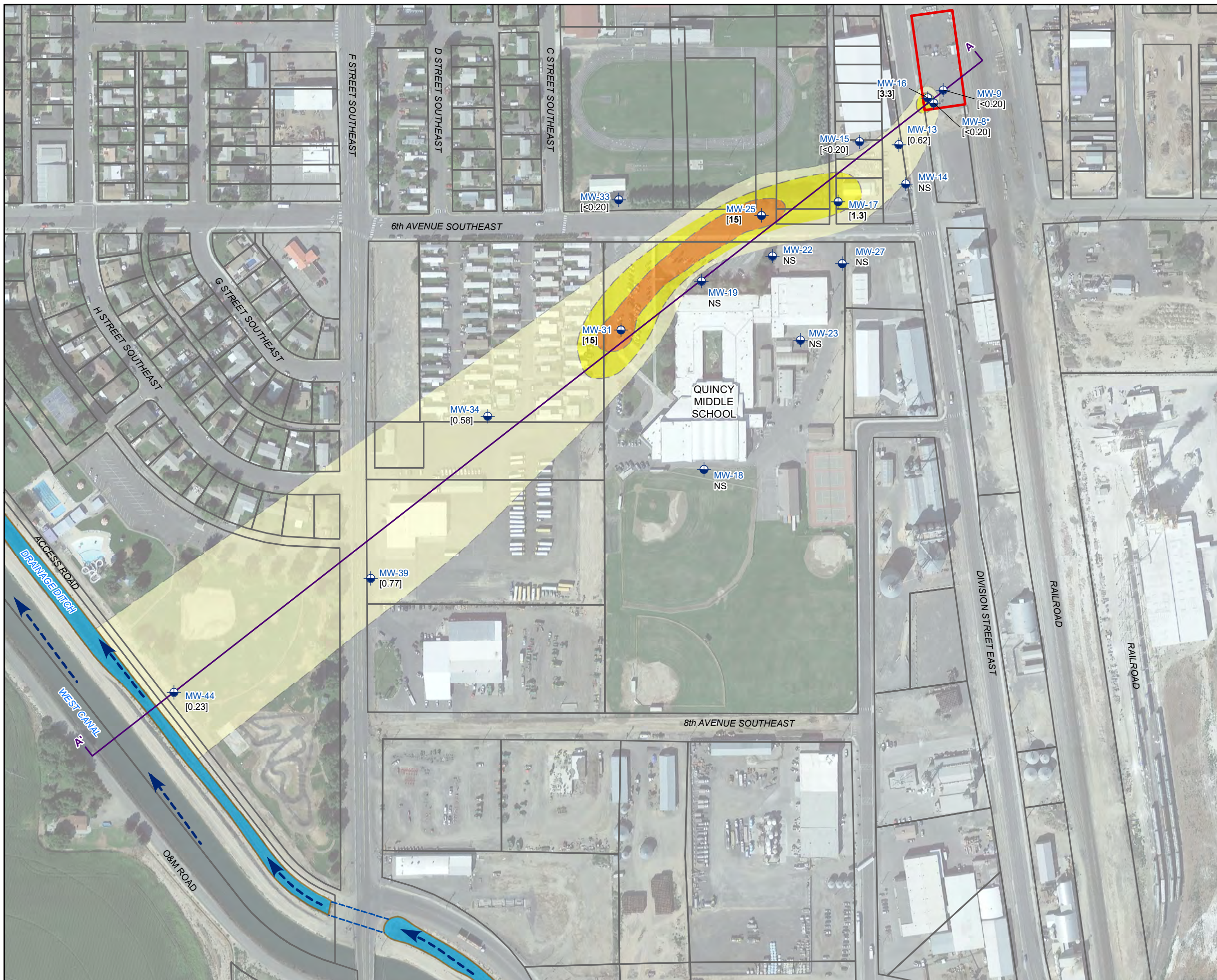
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - DECEMBER 2023
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- MONITORING WELL (DEEP)
 - WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.23] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

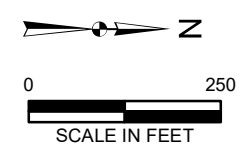
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25



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FIGURE C5

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS - DECEMBER 2023 CENEX HARVEST STATES COOPERATIVES SITE QUINCY, WASHINGTON FARALLON PN: 301-001

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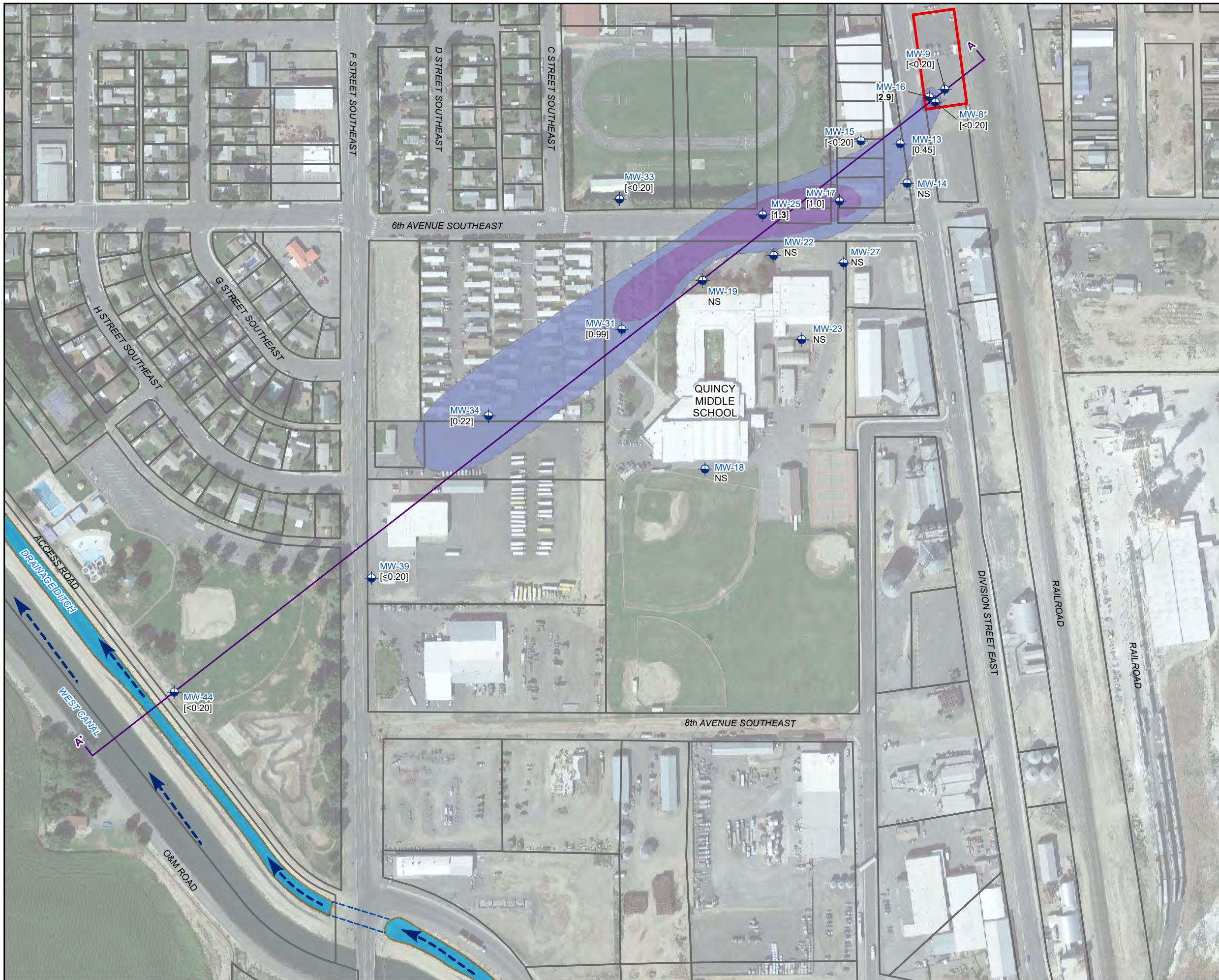
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 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.83] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

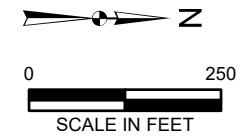
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



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FIGURE C6

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS - DECEMBER 2023
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LEGEND

- MONITORING WELL (DEEP)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[3.1] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER ($\mu\text{g/l}$)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 $\mu\text{g/l}$

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN $\mu\text{g/l}$

- 0.20 - 0.99
- 1.0 - 9.9



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FIGURE C7

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS IN SOURCE AREA - DECEMBER 2023
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LEGEND

- MONITORING WELL (DEEP)
- CURRENT SITE
- FORMER SITE
- CHS PROPERTY BOUNDARY

[7.3] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



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FIGURE C8

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS IN SOURCE AREA - DECEMBER 2023
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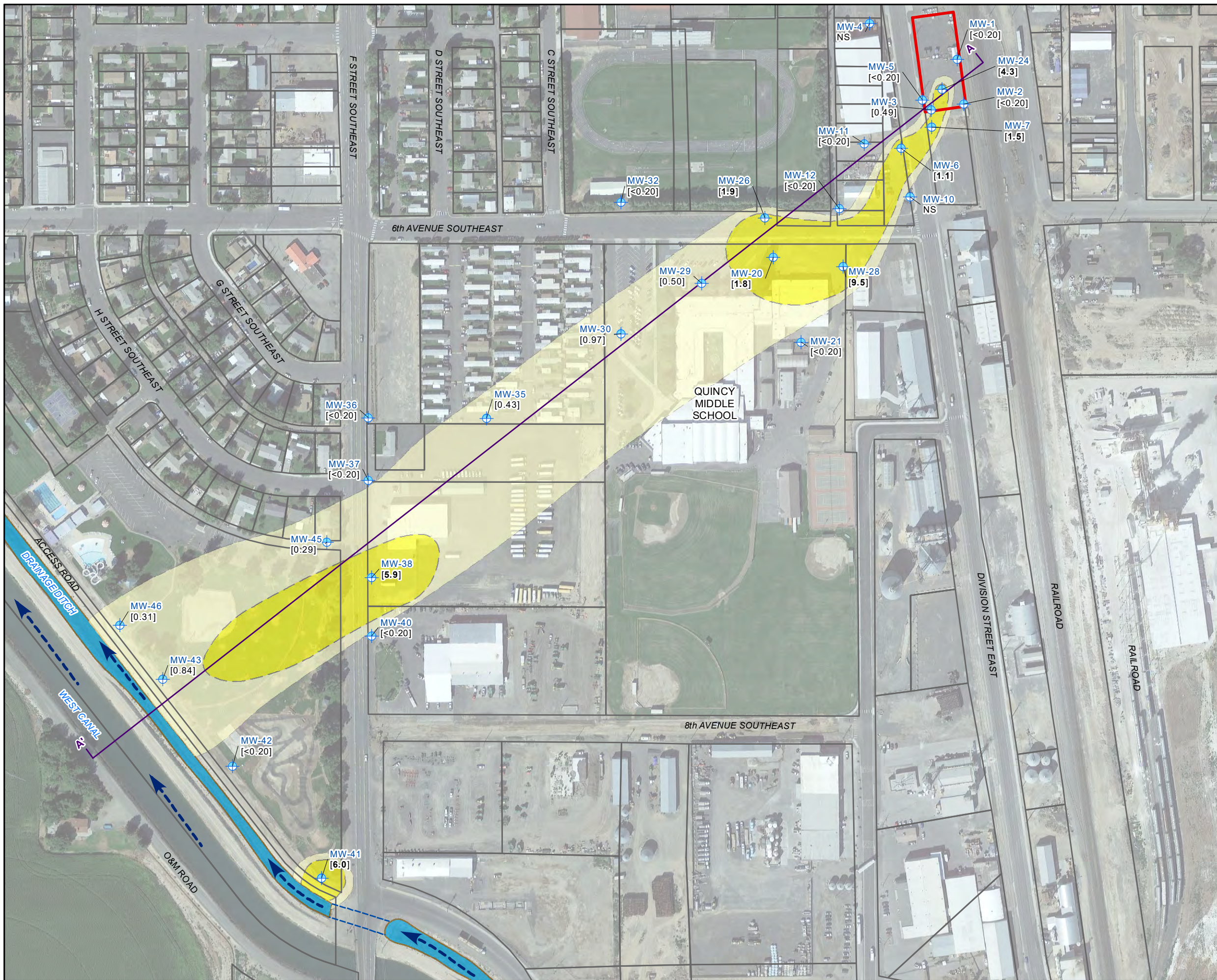
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- MONITORING WELL (SHALLOW)
- WEST CANAL/DRAINAGE DITCH FLOW DIRECTION
- WEST CANAL DRAINAGE DITCH CULVERT
- CHS PROPERTY BOUNDARY
- WEST CANAL DRAINAGE DITCH
- LINE OF CROSS-SECTION

[0.49] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (ug/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 ug/l

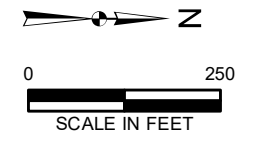
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN ug/l

- 0.20 - 0.99
- 1.0 - 9.9



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FIGURE C9

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS - APRIL 2024
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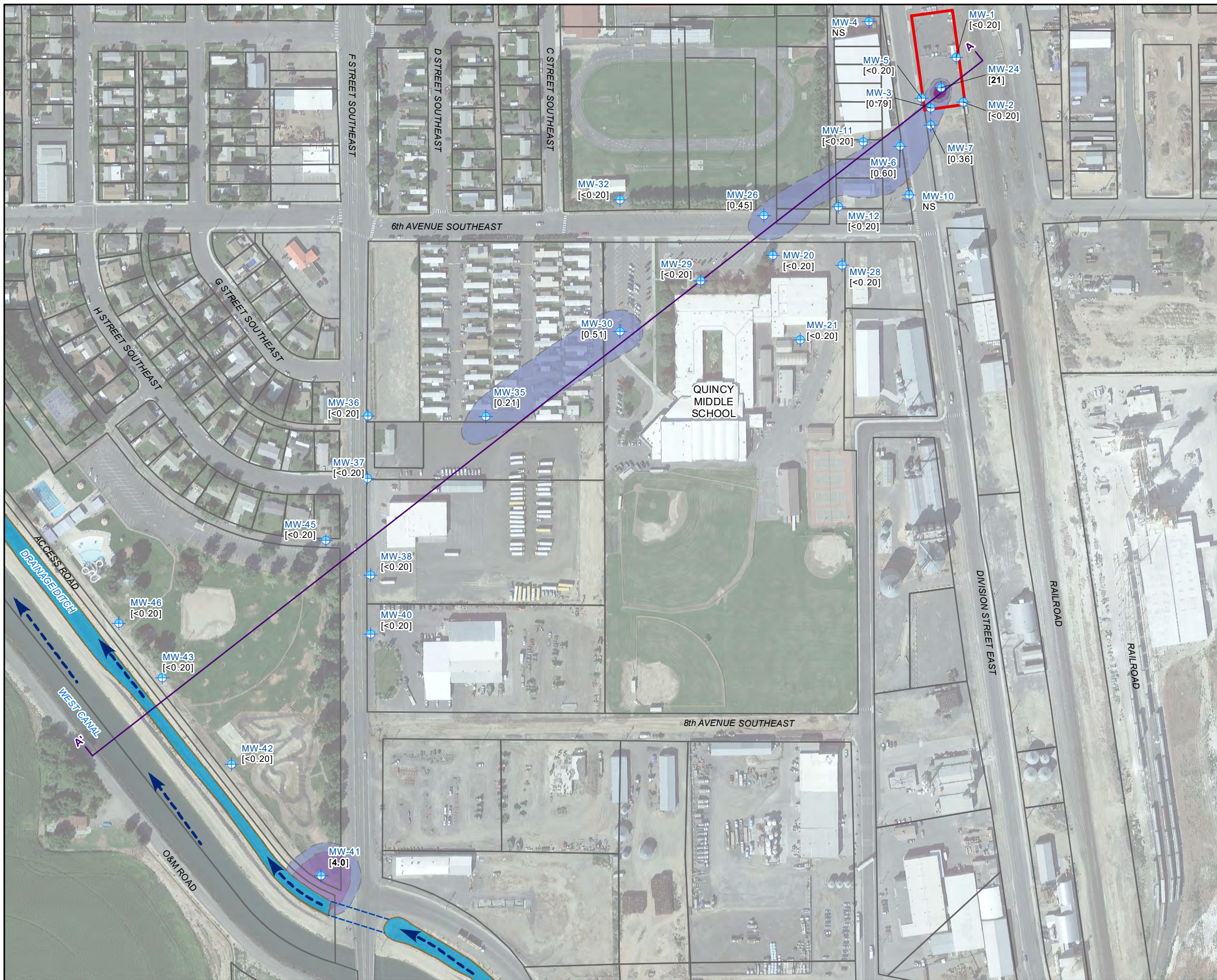
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 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

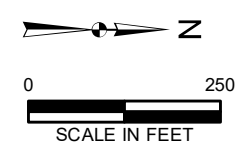
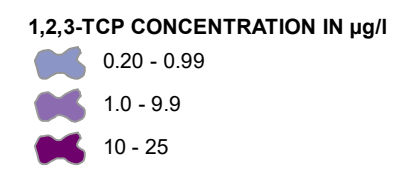
[0.36] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED



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FIGURE C10

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS - APRIL 2024
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LEGEND

- MONITORING WELL (SHALLOW)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[0.4] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

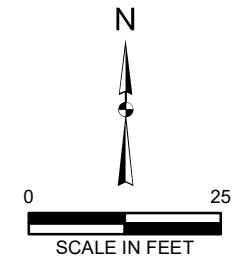
BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9



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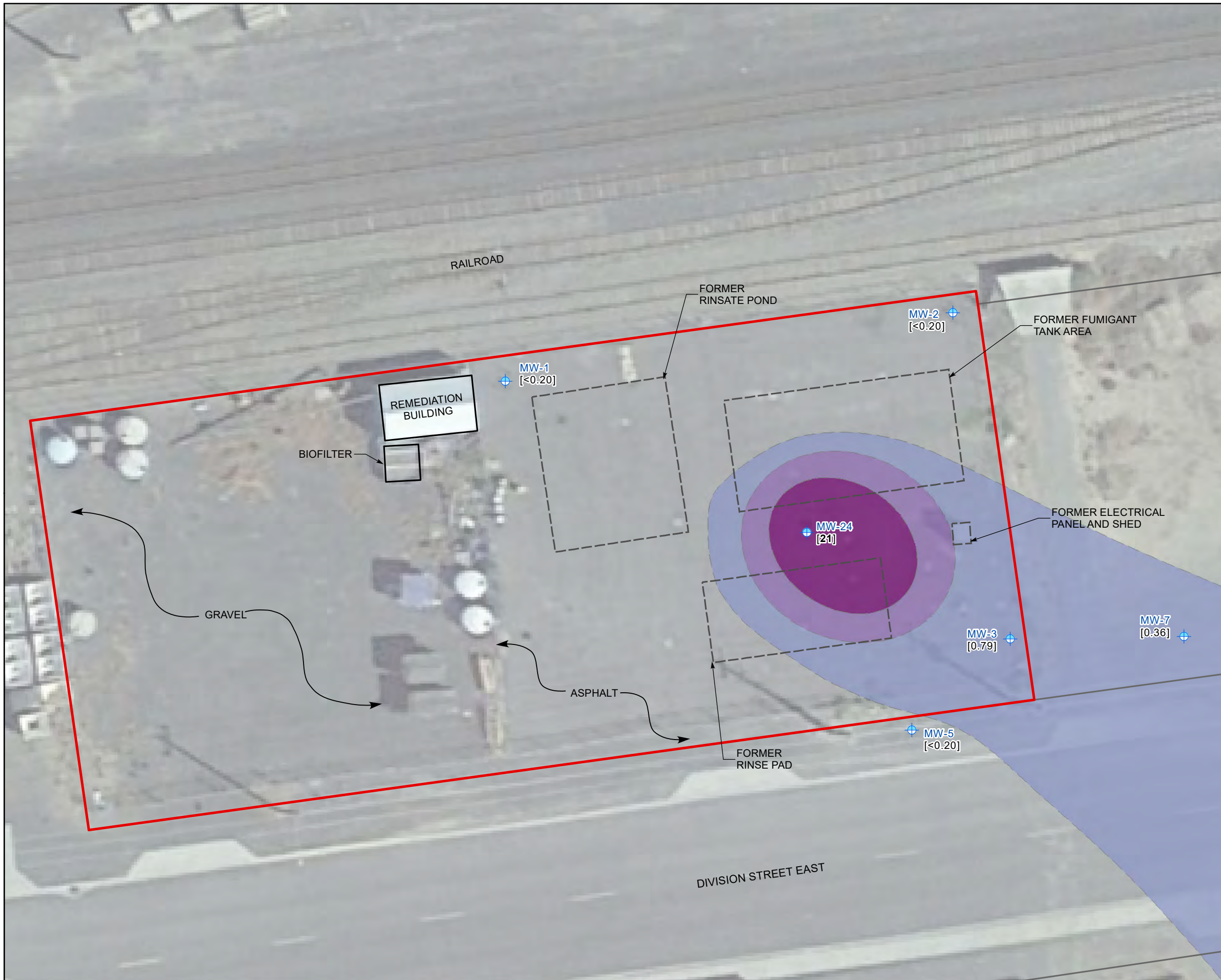
FIGURE C11
 ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - APRIL 2024
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LEGEND

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- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[0.79] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

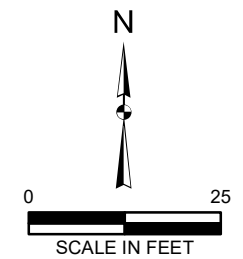
BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10 - 25



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FIGURE C12
 ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN SHALLOW MONITORING WELLS IN SOURCE AREA - APRIL 2024
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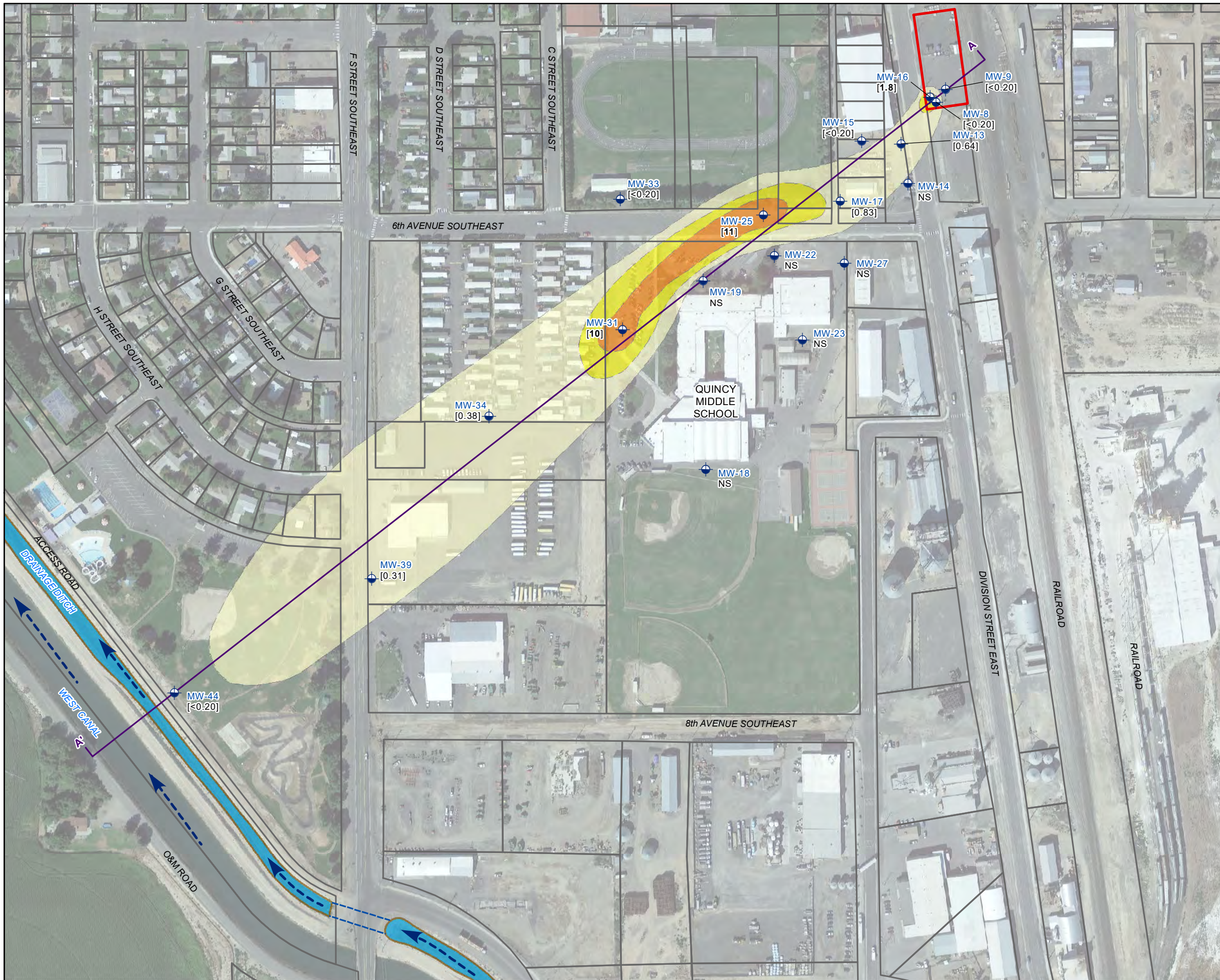
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 - WEST CANAL DRAINAGE DITCH CULVERT
 - CHS PROPERTY BOUNDARY
 - WEST CANAL DRAINAGE DITCH
 - LINE OF CROSS-SECTION

[0.64] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

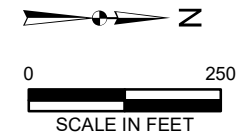
< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9
- 10.0 - 25.0



1. ALL LOCATIONS ARE APPROXIMATE.
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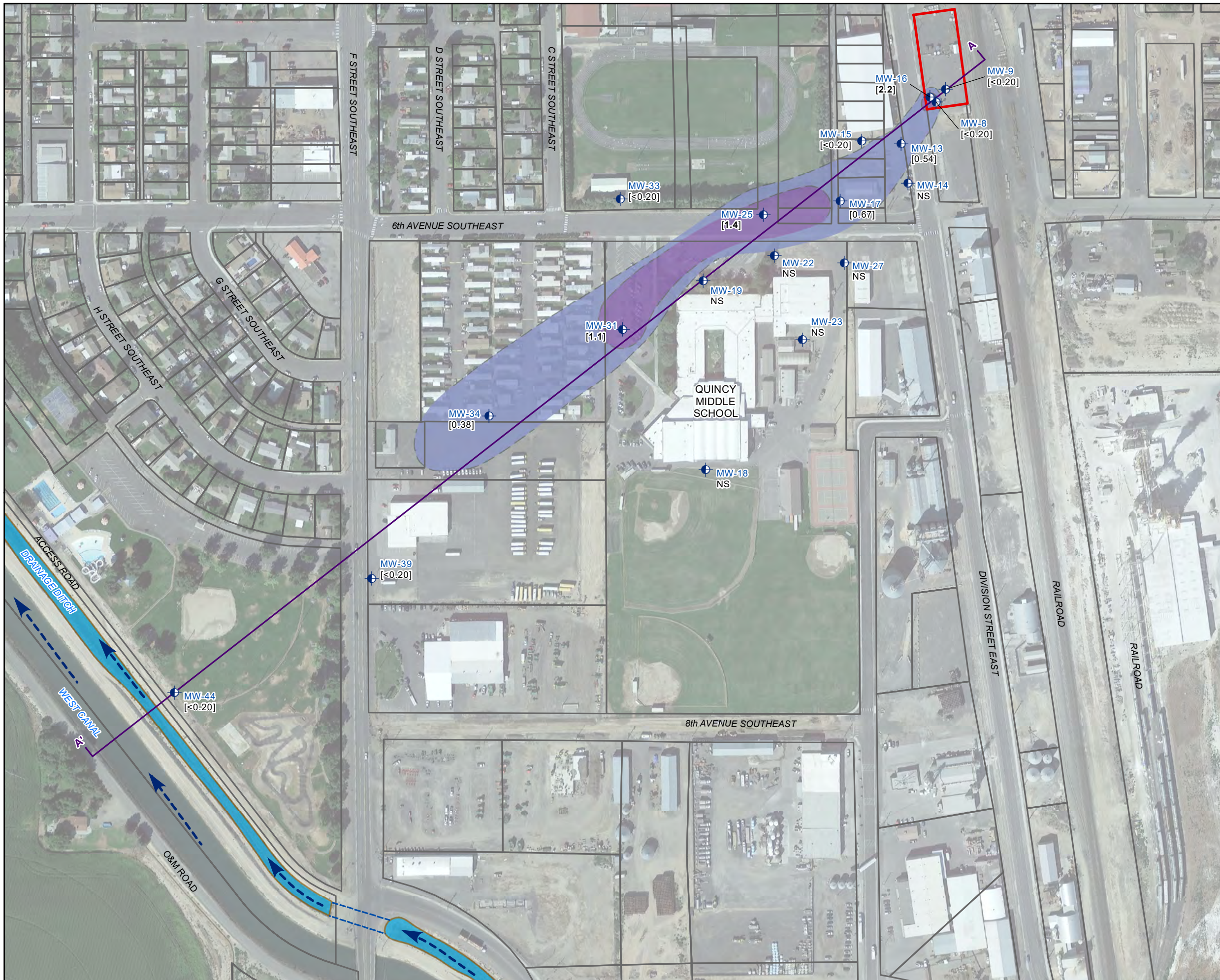
FIGURE C13
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS - APRIL 2024
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LEGEND

- MONITORING WELL (DEEP)
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- WEST CANAL DRAINAGE DITCH CULVERT
- CHS PROPERTY BOUNDARY
- WEST CANAL DRAINAGE DITCH
- LINE OF CROSS-SECTION

[0.54] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER (µg/l)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 µg/l

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

NS = WELL NOT SAMPLED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN µg/l

- 0.20 - 0.99
- 1.0 - 9.9

N

0 250
SCALE IN FEET

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR.
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FIGURE C14

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS - APRIL 2024
CENEX HARVEST STATES COOPERATIVES SITE
QUINCY, WASHINGTON
FARALLON PN: 301-001



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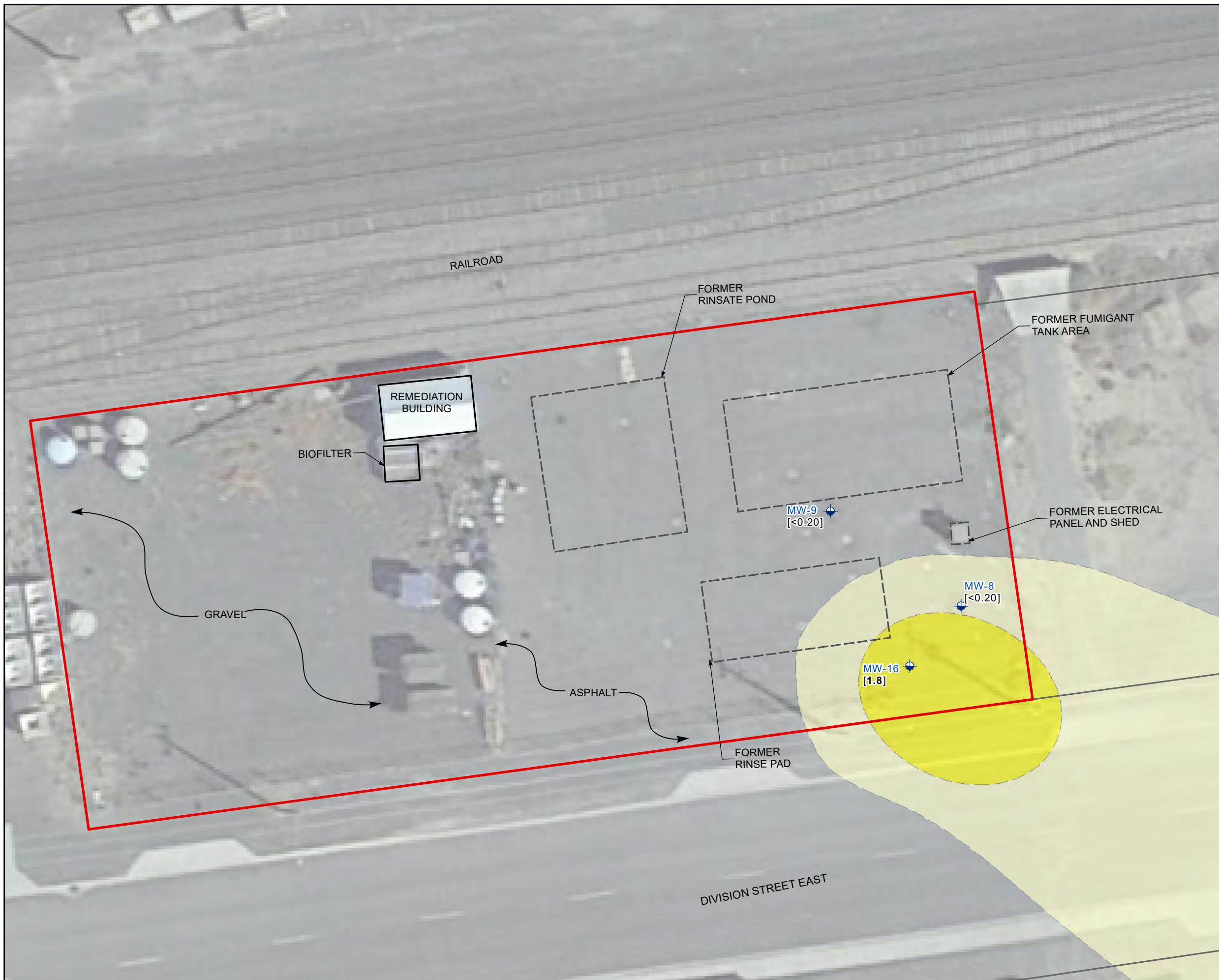
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Q:\Projects\301 CENEX\001 Quincy\Mapfiles\009\Approx C\Figure-C14_GW-Region-Deep_TCP_2024-05.mxd



LEGEND

- MONITORING WELL (DEEP)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[1.8] = CONCENTRATIONS OF 1,2-DICHLOROPROPANE (1,2-DCP) IN MICROGRAMS PER LITER ($\mu\text{g/l}$)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

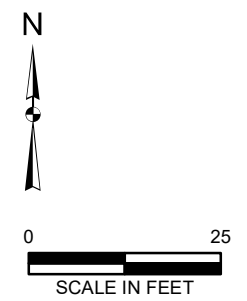
BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF 1 $\mu\text{g/l}$

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2-DCP ARE DASHED WHERE INFERRED

1,2-DCP CONCENTRATION IN $\mu\text{g/l}$

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE C15
ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2-DCP IN DEEP MONITORING WELLS IN SOURCE AREA - APRIL 2024
CENEX HARVEST STATES COOPERATIVES SITE
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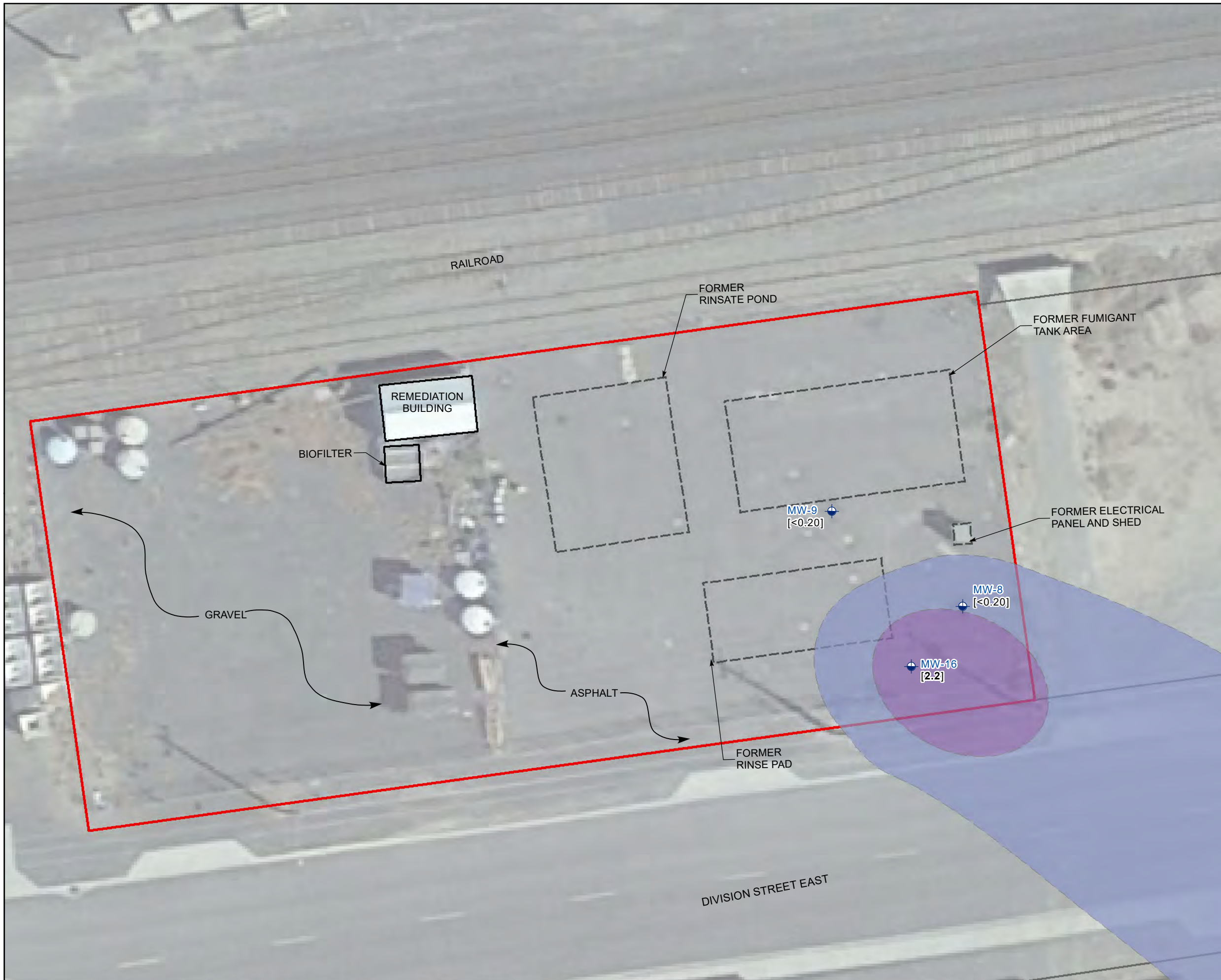
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LEGEND

- MONITORING WELL (DEEP)
- CURRENT SITE FEATURE
- FORMER SITE FEATURE
- CHS PROPERTY BOUNDARY

[2.2] = CONCENTRATIONS OF 1,2,3-TRICHLOROPROPANE (1,2,3-TCP) IN MICROGRAMS PER LITER ($\mu\text{g/l}$)

* = MONITORING WELL MW-8 NOT USED FOR CONSTRUCTION OF ISOCONCENTRATION CONTOURS

BOLD = INDICATES SAMPLE OR REPORTING LIMIT EXCEED SITE CLEANUP LEVEL OF $1 \mu\text{g/l}$

< = INDICATES NOT DETECTED AT OR ABOVE REPORTING LIMIT LISTED

--- ESTIMATED LIMITS OF 1,2,3-TCP ARE DASHED WHERE INFERRED

1,2,3-TCP CONCENTRATION IN $\mu\text{g/l}$

- 0.20 - 0.99
- 1.0 - 9.9



1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
 GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

FIGURE C16

ISOCONCENTRATION CONTOURS AND GROUNDWATER ANALYTICAL RESULTS FOR 1,2,3-TCP IN DEEP MONITORING WELLS IN SOURCE AREA - APRIL 2024
 CENEX HARVEST STATES COOPERATIVES SITE
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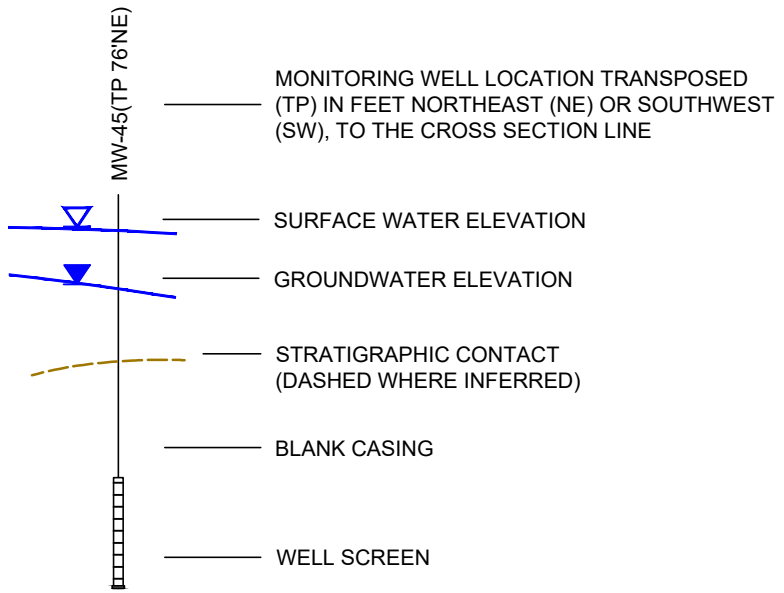
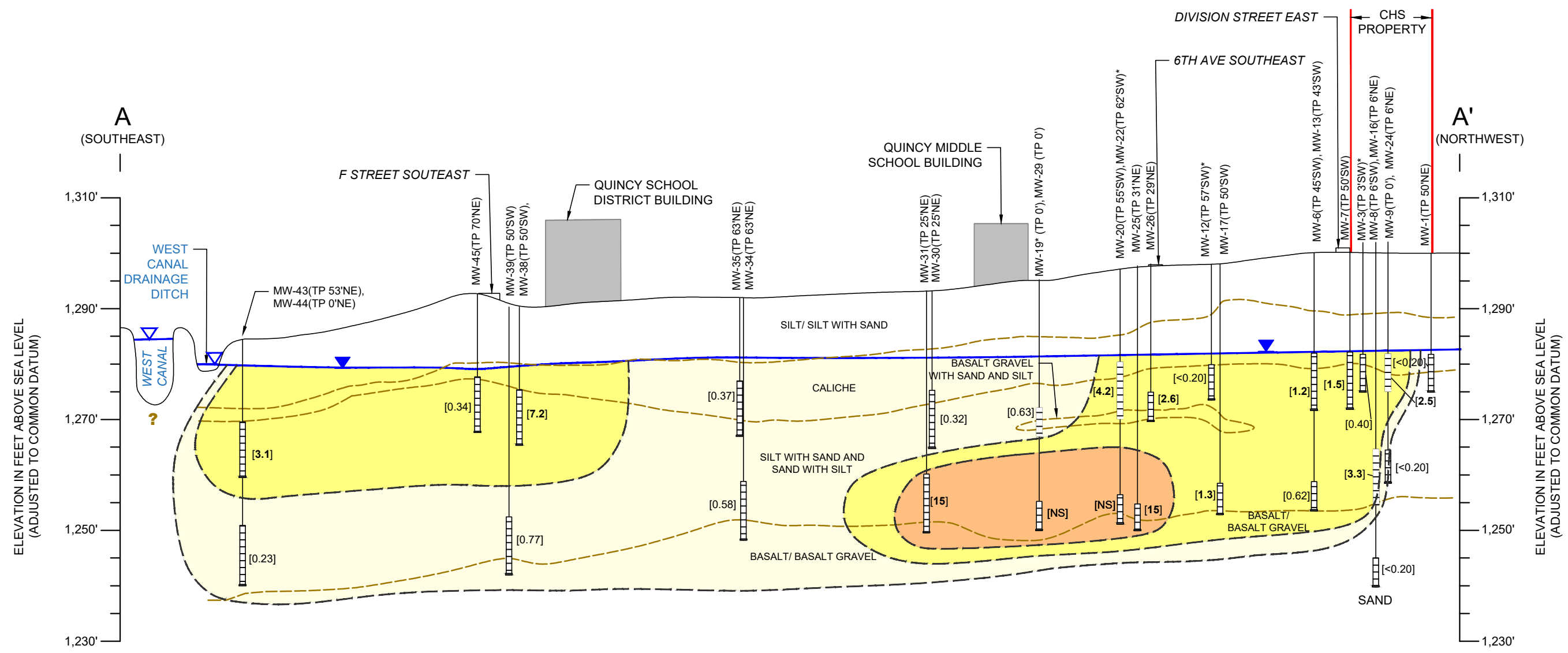
Drawn By: Imurock Checked By: TM Date: 11/14/2024

**APPENDIX D
CROSS SECTION FIGURES**

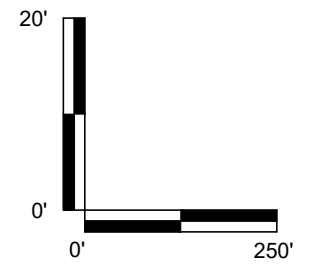
2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001

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- NOTES:**
- [15] = GROUNDWATER ANALYTICAL RESULTS AS [1,2-DICHLOROPROPANE(1,2-DCP) IN MICROGRAMS PER LITER ($\mu\text{g/l}$).
 - [NS] = NOT SAMPLED, HISTORICAL SAMPLING RESULTS $<0.20 \mu\text{g/l}$
 - BOLD** = SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF $1 \mu\text{g/l}$
 - ? = DEPTH OF WEST CANAL UNKNOWN
 - * = RESULTS NOT USED FOR CROSS SECTION
 - - - = ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - = 1,2-DCP 0.20 TO 0.99 $\mu\text{g/l}$
 - = 1,2-DCP 1.0 TO 9.9 $\mu\text{g/l}$
 - = 1,2-DCP 10 TO 25 $\mu\text{g/l}$



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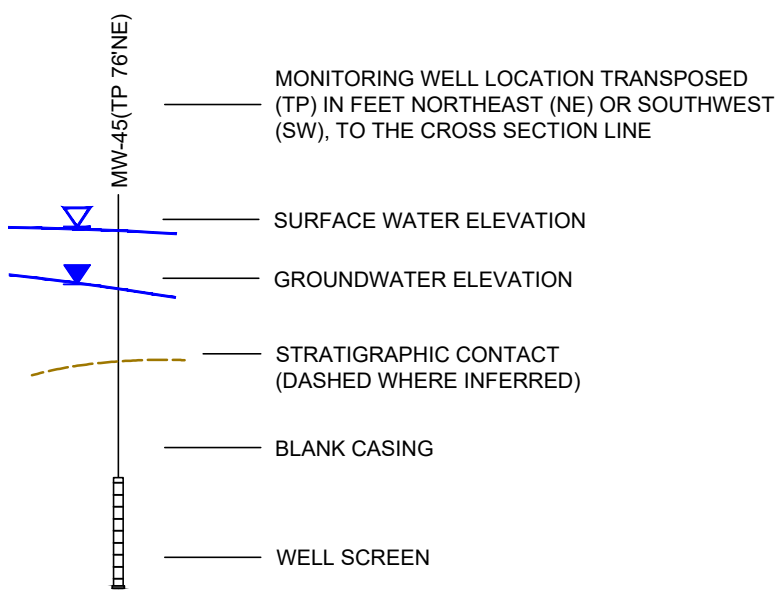
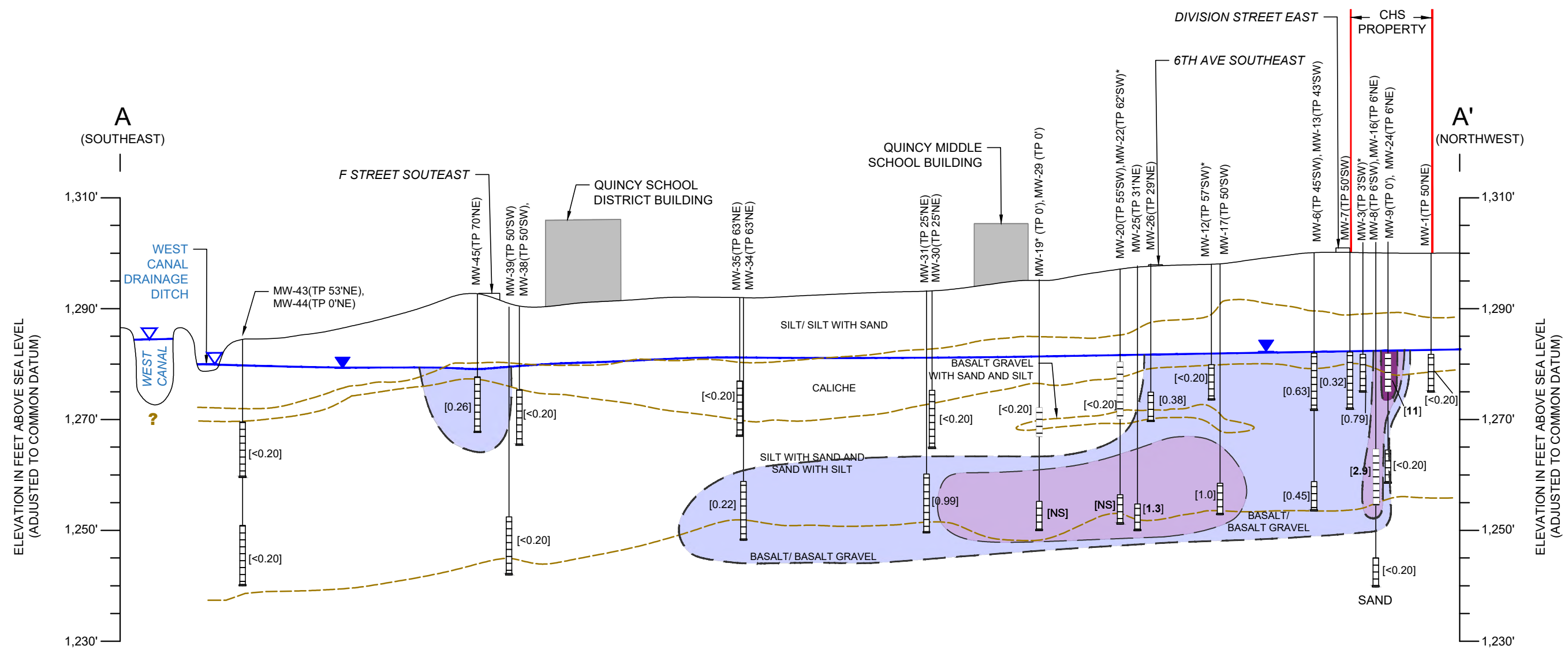
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FIGURE D1
CROSS SECTION OF 1,2-DCP
GROUNDWATER PLUME,
DECEMBER 2023
GENEX HARVEST STATES
COOPERATIVES SITE
QUINCY, WASHINGTON
FARALLON PN: 301-001

Date: 2/21/2024

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- NOTES:**
- [2.9] = GROUNDWATER ANALYTICAL RESULTS AS [1,2,3-TRICHLOROPROPANE (1,2,3-TCP)] IN MICROGRAMS PER LITER ($\mu\text{g/l}$).
 - [NS] = NOT SAMPLED, HISTORICAL SAMPLING RESULTS $<0.20 \mu\text{g/l}$
 - BOLD** = SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF $1 \mu\text{g/l}$
 - ? = DEPTH OF WEST CANAL UNKNOWN
 - * = RESULTS NOT USED FOR CROSS SECTION
 - - - = ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - = 1,2,3-TCP 0.20 TO 0.99 $\mu\text{g/l}$
 - = 1,2,3-TCP 1.0 TO 9.9 $\mu\text{g/l}$
 - = 1,2,3-TCP 10 TO 25 $\mu\text{g/l}$

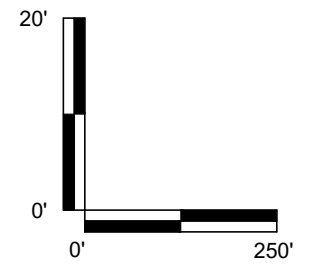
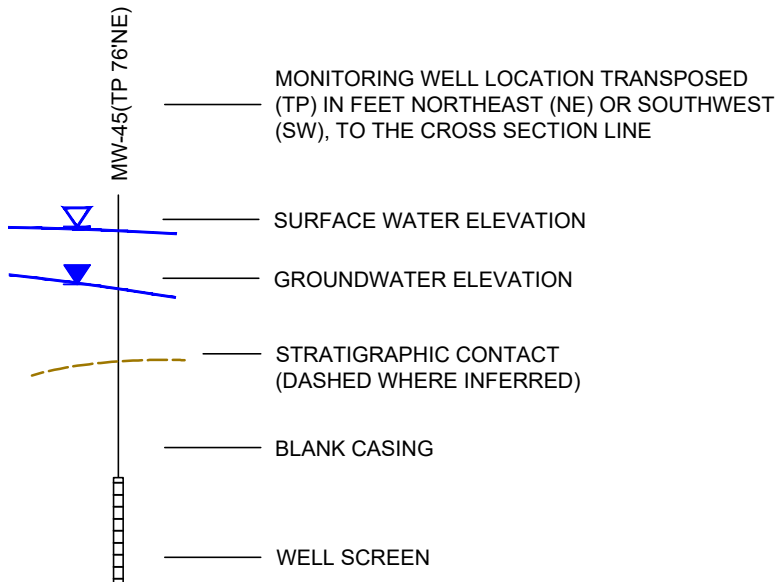
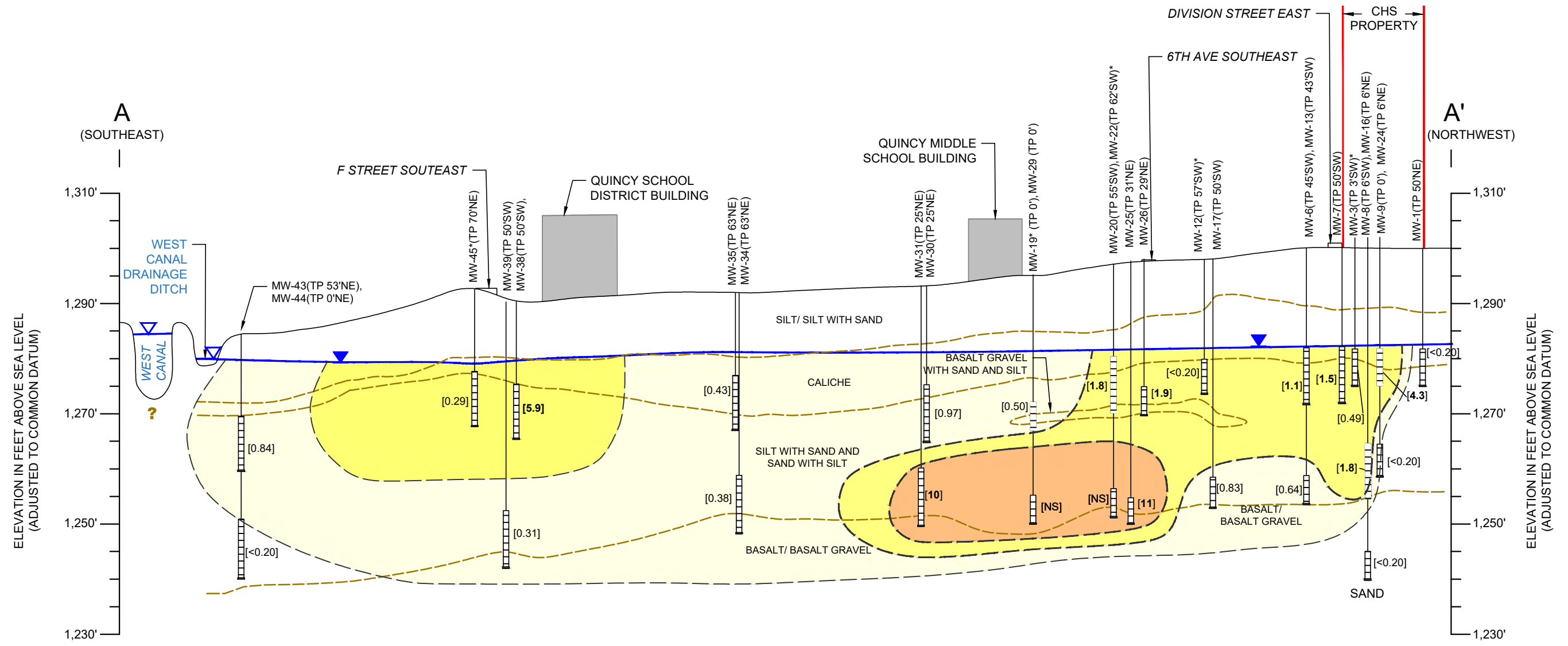


FIGURE D2
 CROSS SECTION OF 1,2,3-TCP
 GROUNDWATER PLUME,
 DECEMBER 2023
 GENEX HARVEST STATES
 COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001

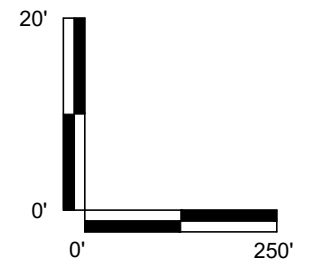
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Date: 2/21/2024

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- NOTES:**
- [11] = GROUNDWATER ANALYTICAL RESULTS AS [1,2-DICHLOROPROPANE(1,2-DCP) IN MICROGRAMS PER LITER (µg/l).
 - [NS] = NOT SAMPLED, HISTORICAL SAMPLING RESULTS <0.20 µg/l
 - BOLD** = SAMPLE OR REPORTING LIMIT EXCEEDS SITE CLEANUP LEVEL OF 1 µg/l
 - ? = DEPTH OF WEST CANAL UNKNOWN
 - * = RESULTS NOT USED FOR CROSS SECTION
 - - - = ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
 - Light yellow circle = 1,2-DCP 0.20 TO 0.99 µg/l
 - Yellow circle = 1,2-DCP 1.0 TO 9.9 µg/l
 - Orange circle = 1,2-DCP 10 TO 25 µg/l



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FIGURE D3
 CROSS SECTION OF 1,2-DCP
 GROUNDWATER PLUME,
 APRIL 2024
 GENEX HARVEST STATES
 COOPERATIVES SITE
 QUINCY, WASHINGTON
 FARALLON PN: 301-001

APPENDIX E
GROUNDWATER TREND ANALYSIS CHARTS

2024 ANNUAL REPORT
Cenex Harvest States Cooperatives Site
300 Division Street East
Quincy, Washington

Farallon PN: 301-001

Table E1
Trend Analysis Summary
Cenex Harvest States Cooperatives Site
Quincy, Washington
Farallon PN: 301-001

Plume Location	Zone	Monitoring Well	1,2-Dichloropropane Trend	1,2,3-Trichloropropane Trend
Source Area	Shallow	MW-24	Decreasing	Stable (no trend)
	Deep	MW-16	Decreasing	Stable (no trend)
Mid-Plume	Shallow	MW-20	Stable (no trend)	Stable (not detected)
		MW-26	Decreasing	Decreasing
		MW-28	Increasing	Stable (no trend)
	Deep	MW-25	Decreasing	Decreasing
		MW-31	Stable (no trend)	Decreasing
End of Plume	Shallow	MW-38	Stable (no trend)	Stable (not detected)
		MW-46	Stable (no trend)	Stable (not detected)
	Deep	MW-44	Stable (no trend)	Stable (not detected)

A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis							
2	User Selected Options										
3	Date/Time of Computation			ProUCL 5.2 12/2/2024 8:21:39 AM							
4	From File			01_ProUCL_Input_2024-12-02.xls							
5	Full Precision			OFF							
6	Confidence Coefficient			0.95							
7	Level of Significance			0.05							
8											
9	1-2_DCP-mw-16										
10											
11	General Statistics										
12	Number of Events Reported (m)			17							
13	Number of Missing Events			0							
14	Number or Reported Events Used			17							
15	Number Values Reported (n)			17							
16	Minimum			0.9							
17	Maximum			21							
18	Mean			5.988							
19	Geometric Mean			4.405							
20	Median			3.9							
21	Standard Deviation			5.25							
22	Coefficient of Variation			0.877							
23											
24	Mann-Kendall Test										
25	M-K Test Value (S)			-55							
26	Tabulated p-value			0.014							
27	Standard Deviation of S			24.26							
28	Standardized Value of S			-2.226							
29	Approximate p-value			0.013							
30											
31	Statistically significant evidence of a decreasing										
32	trend at the specified level of significance.										
33	1-2_DCP-mw-20										
34											
35	General Statistics										
36	Number of Events Reported (m)			17							
37	Number of Missing Events			0							
38	Number or Reported Events Used			17							
39	Number Values Reported (n)			17							
40	Minimum			0.2							
41	Maximum			5.1							
42	Mean			2.693							
43	Geometric Mean			2.205							
44	Median			2.8							
45	Standard Deviation			1.394							
46	Coefficient of Variation			0.518							
47											
48	Mann-Kendall Test										
49	M-K Test Value (S)			-41							
50	Tabulated p-value			0.054							
51	Standard Deviation of S			24.26							
52	Standardized Value of S			-1.649							
53	Approximate p-value			0.0496							
54											
55	Insufficient evidence to identify a significant										
56	trend at the specified level of significance.										
57	1-2_DCP-mw-24										
58											
59	General Statistics										
60	Number of Events Reported (m)			17							
61	Number of Missing Events			0							
62	Number or Reported Events Used			17							
63	Number Values Reported (n)			17							
64	Minimum			2.1							
65	Maximum			40							
66	Mean			12.81							
67	Geometric Mean			8.475							

	A	B	C	D	E	F	G	H	I	J	K	L
68				Median	6.4							
69				Standard Deviation	11.6							
70				Coefficient of Variation	0.906							
71												
72				Mann-Kendall Test								
73				M-K Test Value (S)	-79							
74				Tabulated p-value	0							
75				Standard Deviation of S	24.26							
76				Standardized Value of S	-3.216							
77				Approximate p-value	6.5051E-4							
78												
79				Statistically significant evidence of a decreasing								
80				trend at the specified level of significance.								
81				1-2_DCP-mw-25								
82												
83				General Statistics								
84				Number of Events Reported (m)	17							
85				Number of Missing Events	0							
86				Number or Reported Events Used	17							
87				Number Values Reported (n)	17							
88				Minimum	3.9							
89				Maximum	24							
90				Mean	14.23							
91				Geometric Mean	13.48							
92				Median	15							
93				Standard Deviation	4.162							
94				Coefficient of Variation	0.292							
95												
96				Mann-Kendall Test								
97				M-K Test Value (S)	-82							
98				Tabulated p-value	0							
99				Standard Deviation of S	23.85							
100				Standardized Value of S	-3.397							
101				Approximate p-value	3.4103E-4							
102												
103				Statistically significant evidence of a decreasing								
104				trend at the specified level of significance.								
105				1-2_DCP-mw-26								
106												
107				General Statistics								
108				Number of Events Reported (m)	17							
109				Number of Missing Events	0							
110				Number or Reported Events Used	17							
111				Number Values Reported (n)	17							
112				Minimum	0.32							
113				Maximum	4.5							
114				Mean	2.315							
115				Geometric Mean	1.925							
116				Median	2.1							
117				Standard Deviation	1.248							
118				Coefficient of Variation	0.539							
119												
120				Mann-Kendall Test								
121				M-K Test Value (S)	-52							
122				Tabulated p-value	0.017							
123				Standard Deviation of S	24.23							
124				Standardized Value of S	-2.104							
125				Approximate p-value	0.0177							
126												
127				Statistically significant evidence of a decreasing								
128				trend at the specified level of significance.								
129				1-2_DCP-mw-28								
130												
131				General Statistics								
132				Number of Events Reported (m)	17							
133				Number of Missing Events	0							
134				Number or Reported Events Used	17							

A	B	C	D	E	F	G	H	I	J	K	L
135	Number Values Reported (n)		17								
136	Minimum		0.36								
137	Maximum		12								
138	Mean		3.615								
139	Geometric Mean		2.282								
140	Median		2								
141	Standard Deviation		3.475								
142	Coefficient of Variation		0.961								
143											
144	Mann-Kendall Test										
145	M-K Test Value (S)		81								
146	Tabulated p-value		0								
147	Standard Deviation of S		24.26								
148	Standardized Value of S		3.298								
149	Approximate p-value		4.8652E-4								
150											
151	Statistically significant evidence of an increasing										
152	trend at the specified level of significance.										
153	1-2_DCP-mw-31										
154											
155	General Statistics										
156	Number of Events Reported (m)		17								
157	Number of Missing Events		0								
158	Number or Reported Events Used		17								
159	Number Values Reported (n)		17								
160	Minimum		7.6								
161	Maximum		19								
162	Mean		12.18								
163	Geometric Mean		11.85								
164	Median		12								
165	Standard Deviation		2.964								
166	Coefficient of Variation		0.243								
167											
168	Mann-Kendall Test										
169	M-K Test Value (S)		-41								
170	Tabulated p-value		0.054								
171	Standard Deviation of S		24.12								
172	Standardized Value of S		-1.659								
173	Approximate p-value		0.0486								
174											
175	Insufficient evidence to identify a significant										
176	trend at the specified level of significance.										
177	1-2_DCP-mw-38										
178											
179	General Statistics										
180	Number of Events Reported (m)		17								
181	Number of Missing Events		0								
182	Number or Reported Events Used		17								
183	Number Values Reported (n)		17								
184	Minimum		2.5								
185	Maximum		7.2								
186	Mean		5.782								
187	Geometric Mean		5.621								
188	Median		6.2								
189	Standard Deviation		1.228								
190	Coefficient of Variation		0.212								
191											
192	Mann-Kendall Test										
193	M-K Test Value (S)		-8								
194	Tabulated p-value		0.388								
195	Standard Deviation of S		24.23								
196	Standardized Value of S		-0.289								
197	Approximate p-value		0.386								
198											
199	Insufficient evidence to identify a significant										
200	trend at the specified level of significance.										
201	1-2_DCP-mw-44										

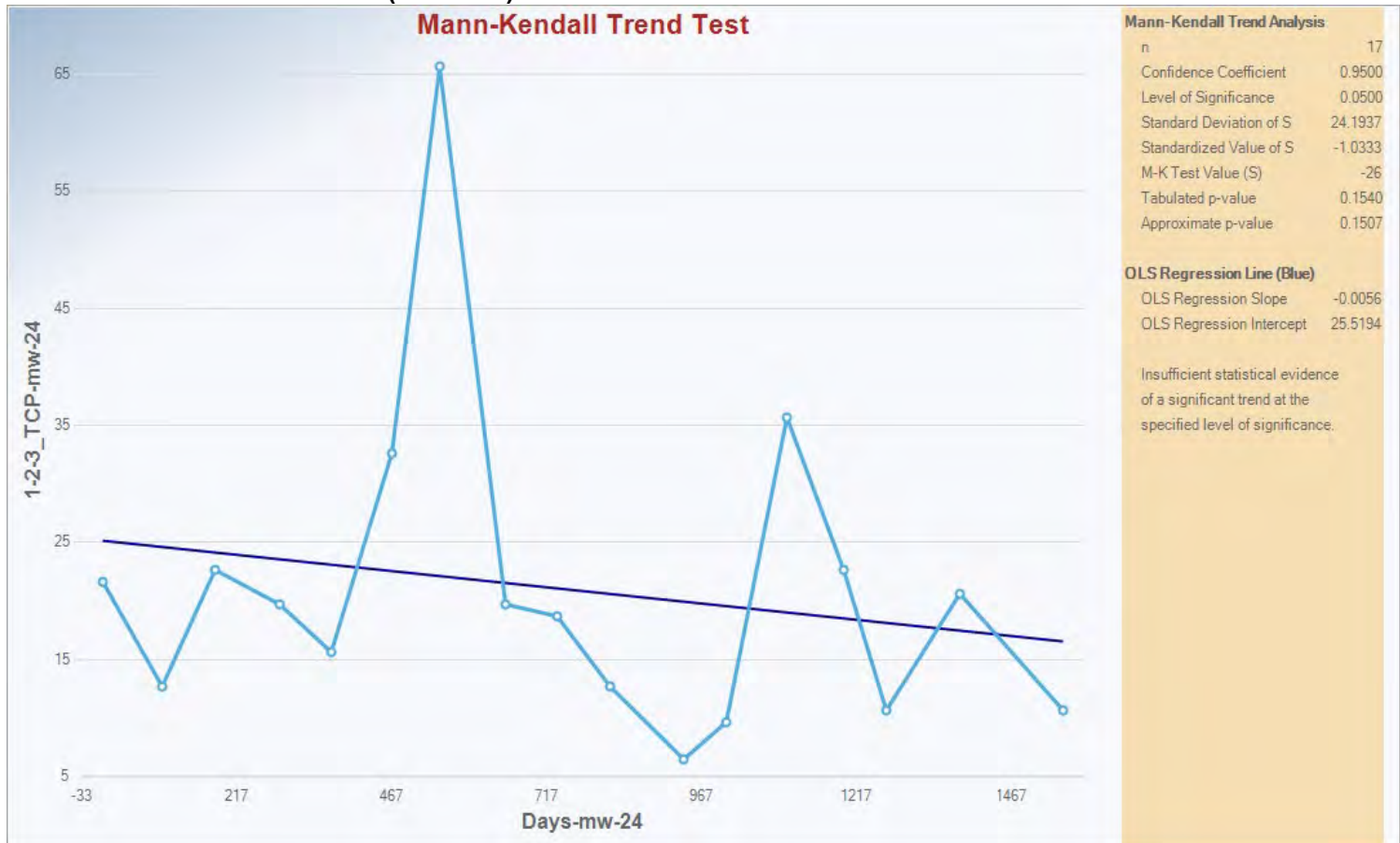
A	B	C	D	E	F	G	H	I	J	K	L
1			Mann-Kendall Trend Test Analysis								
2	User Selected Options										
3	Date/Time of Computation		ProUCL 5.2 12/2/2024 9:07:55 AM								
4	From File		01_ProUCL_Input_2024-12-02.xls								
5	Full Precision		OFF								
6	Confidence Coefficient		0.95								
7	Level of Significance		0.05								
8											
9	1-2-3_TCP-mw-16										
10											
11	General Statistics										
12	Number of Events Reported (m)		17								
13	Number of Missing Events		0								
14	Number or Reported Events Used		17								
15	Number Values Reported (n)		17								
16	Minimum		1.3								
17	Maximum		19								
18	Mean		5.076								
19	Geometric Mean		4.065								
20	Median		4.7								
21	Standard Deviation		4.125								
22	Coefficient of Variation		0.813								
23											
24	Mann-Kendall Test										
25	M-K Test Value (S)		11								
26	Tabulated p-value		0.358								
27	Standard Deviation of S		24.21								
28	Standardized Value of S		0.413								
29	Approximate p-value		0.34								
30											
31	Insufficient evidence to identify a significant										
32	trend at the specified level of significance.										
33	1-2-3_TCP-mw-20										
34											
35	General Statistics										
36	Number of Events Reported (m)		17								
37	Number of Missing Events		0								
38	Number or Reported Events Used		17								
39	Number Values Reported (n)		17								
40	Minimum		0.2								
41	Maximum		0.2								
42	Mean		0.2								
43	Geometric Mean		0.2								
44	Median		0.2								
45	Standard Deviation		2.861E-17								
46	Coefficient of Variation		N/A								
47											
48	Mann-Kendall Test										
49	M-K Test Value (S)		0								
50	Tabulated p-value		0.516								
51	Standard Deviation of S		0								
52	Standardized Value of S		N/A								
53	Approximate p-value		N/A								
54											
55	Insufficient evidence to identify a significant										
56	trend at the specified level of significance.										
57	1-2-3_TCP-mw-24										
58											
59	General Statistics										
60	Number of Events Reported (m)		17								
61	Number of Missing Events		0								
62	Number or Reported Events Used		17								
63	Number Values Reported (n)		17								
64	Minimum		6.8								
65	Maximum		66								
66	Mean		21.4								
67	Geometric Mean		18.42								

	A	B	C	D	E	F	G	H	I	J	K	L
68				Median	20							
69				Standard Deviation	13.88							
70				Coefficient of Variation	0.649							
71												
72				Mann-Kendall Test								
73				M-K Test Value (S)	-26							
74				Tabulated p-value	0.154							
75				Standard Deviation of S	24.19							
76				Standardized Value of S	-1.033							
77				Approximate p-value	0.151							
78												
79				Insufficient evidence to identify a significant								
80				trend at the specified level of significance.								
81				1-2-3_TCP-mw-25								
82												
83				General Statistics								
84				Number of Events Reported (m)	17							
85				Number of Missing Events	0							
86				Number or Reported Events Used	17							
87				Number Values Reported (n)	17							
88				Minimum	0.48							
89				Maximum	2.7							
90				Mean	1.822							
91				Geometric Mean	1.708							
92				Median	2							
93				Standard Deviation	0.572							
94				Coefficient of Variation	0.314							
95												
96				Mann-Kendall Test								
97				M-K Test Value (S)	-76							
98				Tabulated p-value	0.001							
99				Standard Deviation of S	23.89							
100				Standardized Value of S	-3.14							
101				Approximate p-value	8.4598E-4							
102												
103				Statistically significant evidence of a decreasing								
104				trend at the specified level of significance.								
105				1-2-3_TCP-mw-26								
106												
107				General Statistics								
108				Number of Events Reported (m)	17							
109				Number of Missing Events	0							
110				Number or Reported Events Used	17							
111				Number Values Reported (n)	17							
112				Minimum	0.2							
113				Maximum	1.1							
114				Mean	0.588							
115				Geometric Mean	0.543							
116				Median	0.55							
117				Standard Deviation	0.233							
118				Coefficient of Variation	0.396							
119												
120				Mann-Kendall Test								
121				M-K Test Value (S)	-68							
122				Tabulated p-value	0.002							
123				Standard Deviation of S	24.23							
124				Standardized Value of S	-2.765							
125				Approximate p-value	0.00285							
126												
127				Statistically significant evidence of a decreasing								
128				trend at the specified level of significance.								
129				1-2-3_TCP-mw-28								
130												
131				General Statistics								
132				Number of Events Reported (m)	17							
133				Number of Missing Events	0							
134				Number or Reported Events Used	17							

1,2,3-Trichloropropane Trends

Source Area

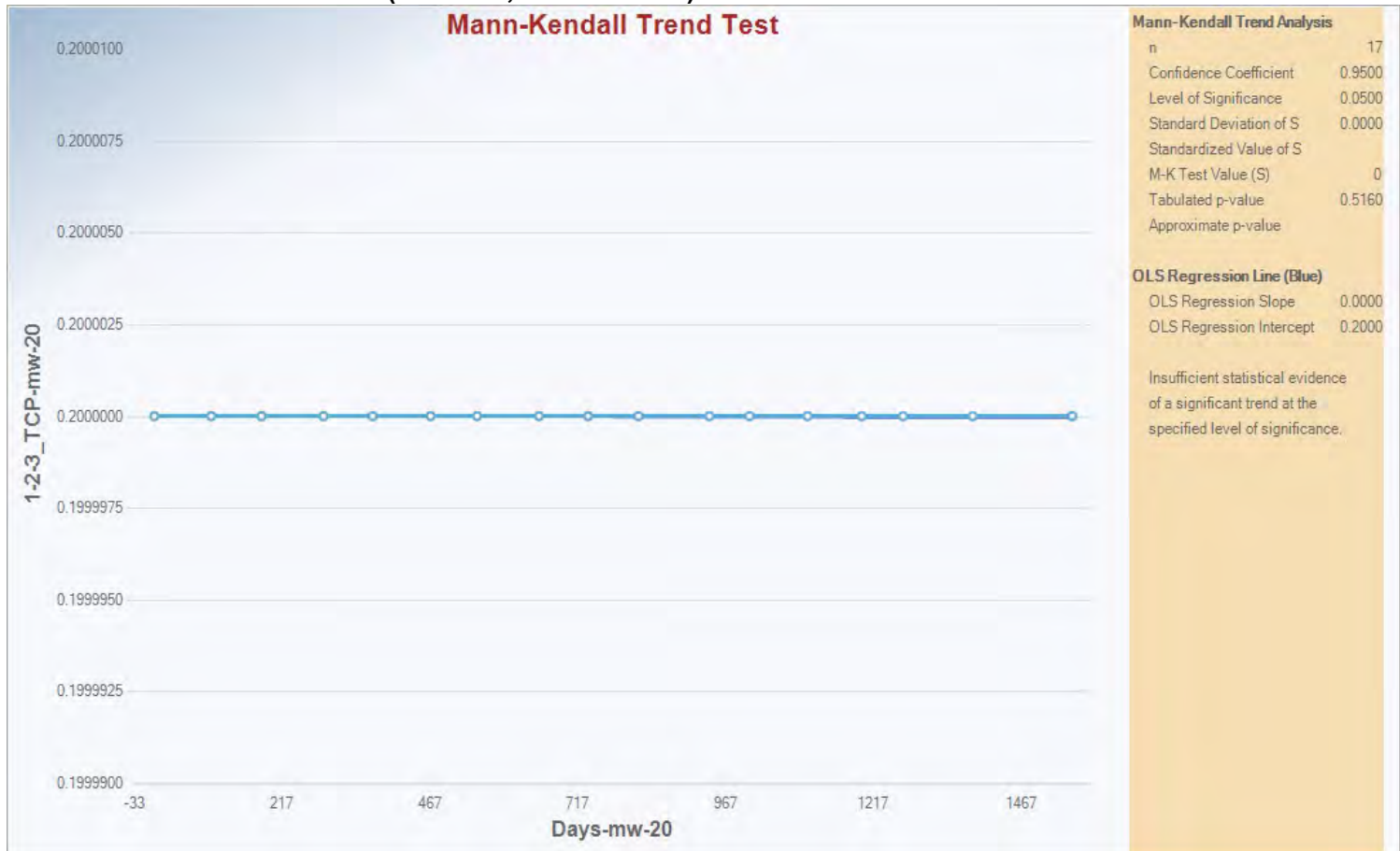
Shallow Well MW-24: Stable (no trend)



1,2,3-Trichloropropane Trends

Mid-Plume

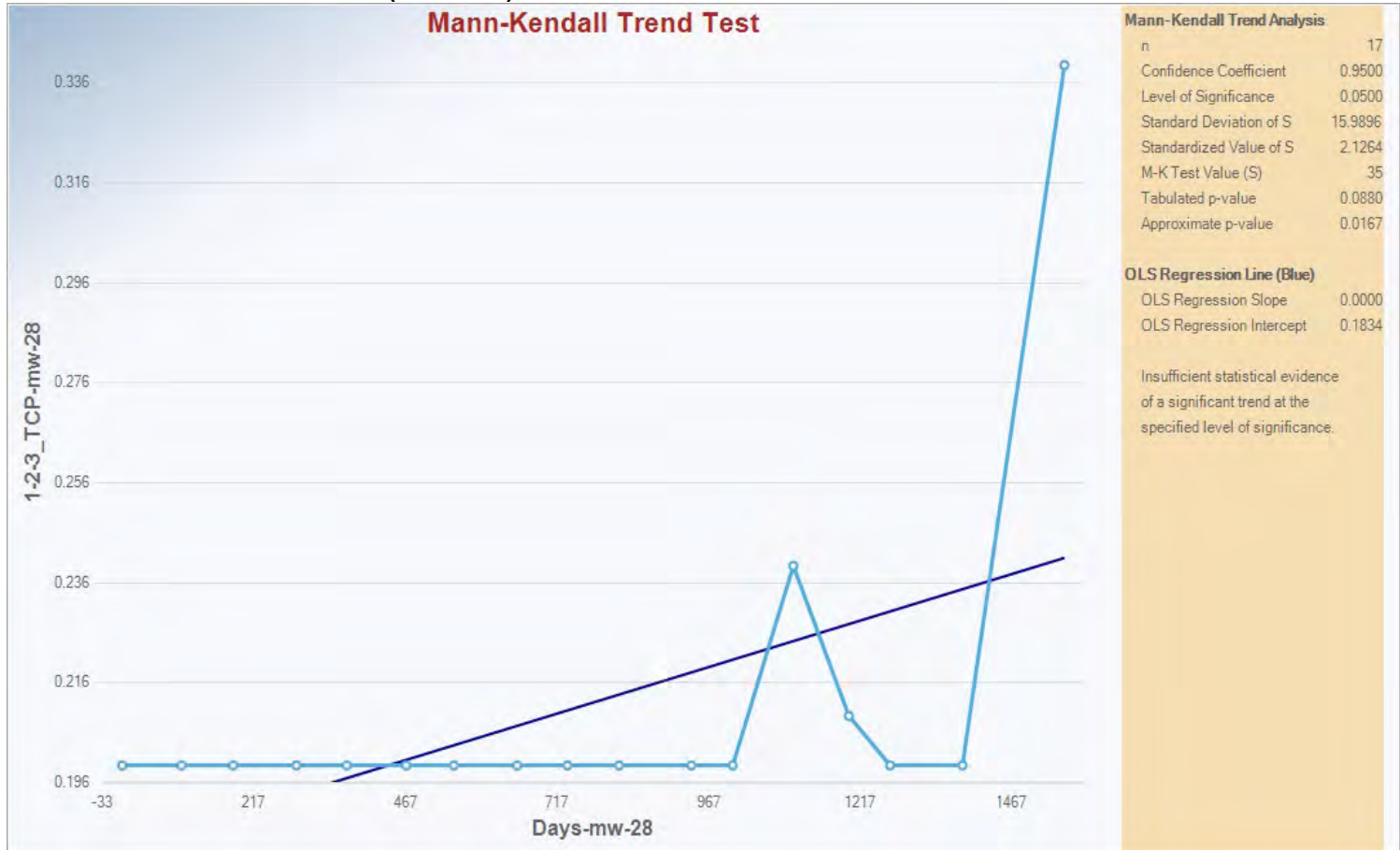
Shallow Well MW-20: Stable (no trend; not detected)



1,2,3-Trichloropropane Trends

Mid-Plume

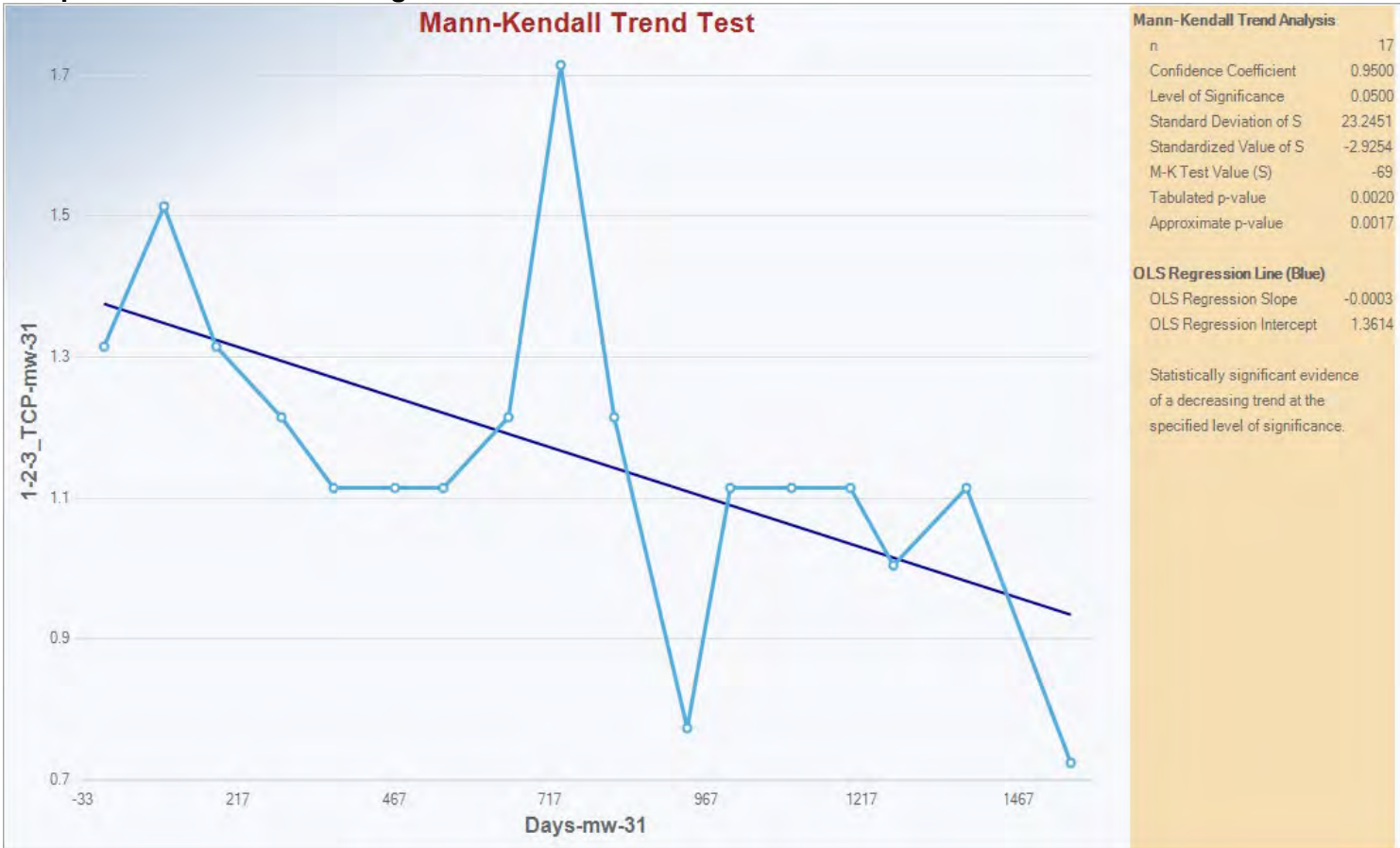
Shallow Well MW-28: Stable (no trend)



1,2,3-Trichloropropane Trends

Mid-Plume

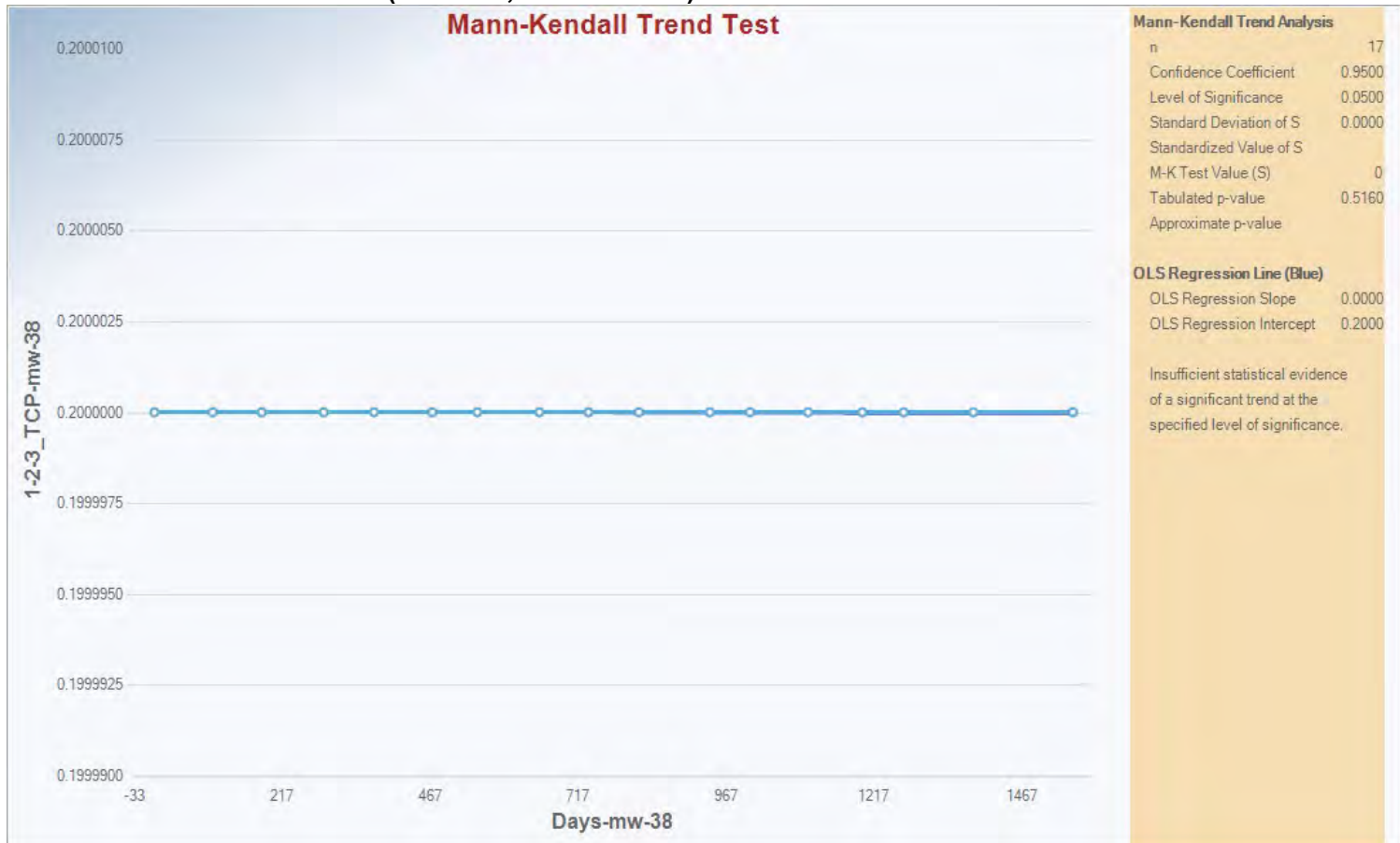
Deep Well MW-31: Decreasing Trend



1,2,3-Trichloropropane Trends

End of Plume

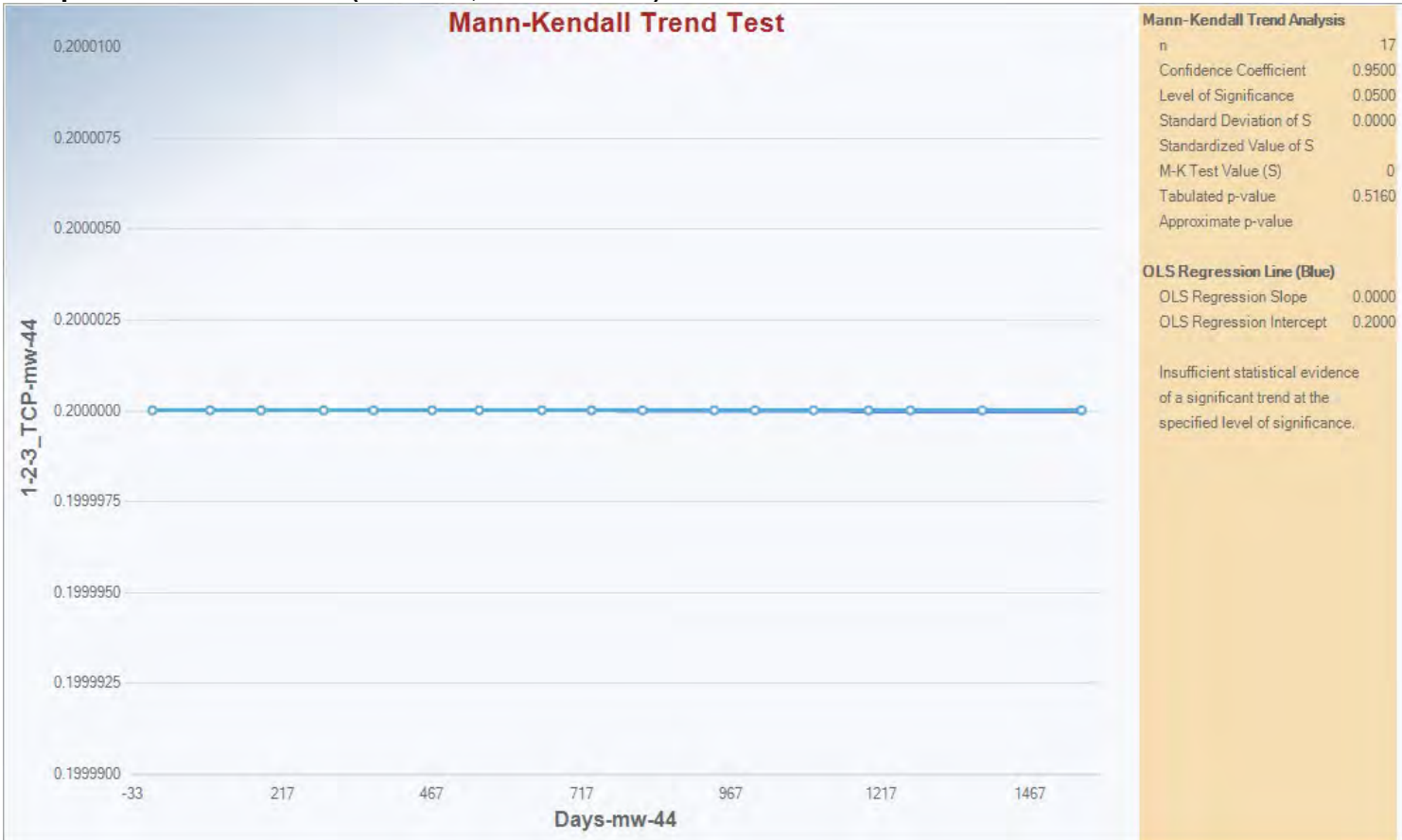
Shallow Well MW-38: Stable (no trend; not detected)



1,2,3-Trichloropropane Trends

End of Plume

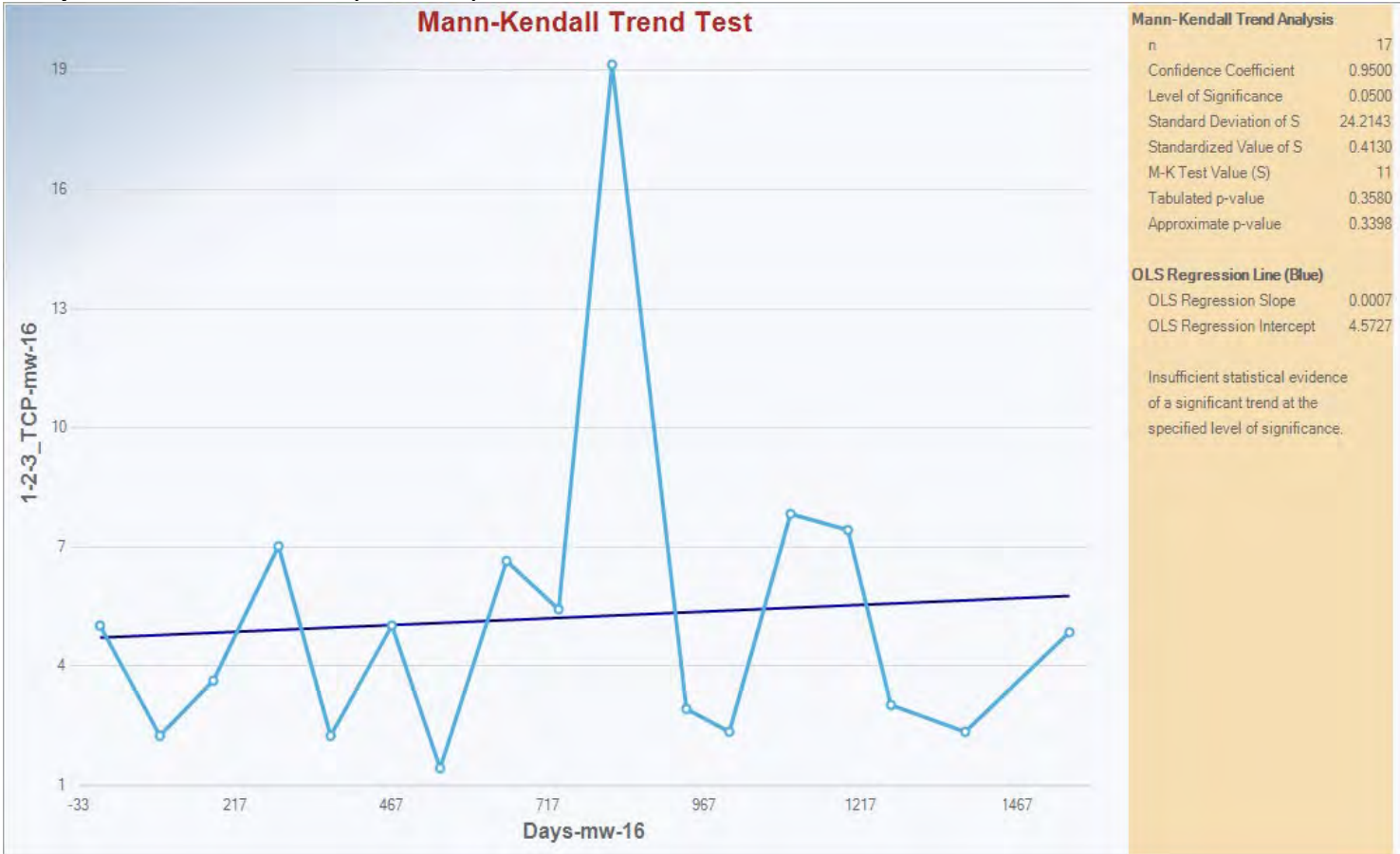
Deep Well MW-44: Stable (no trend; not detected)



1,2,3-Trichloropropane Trends

Source Area

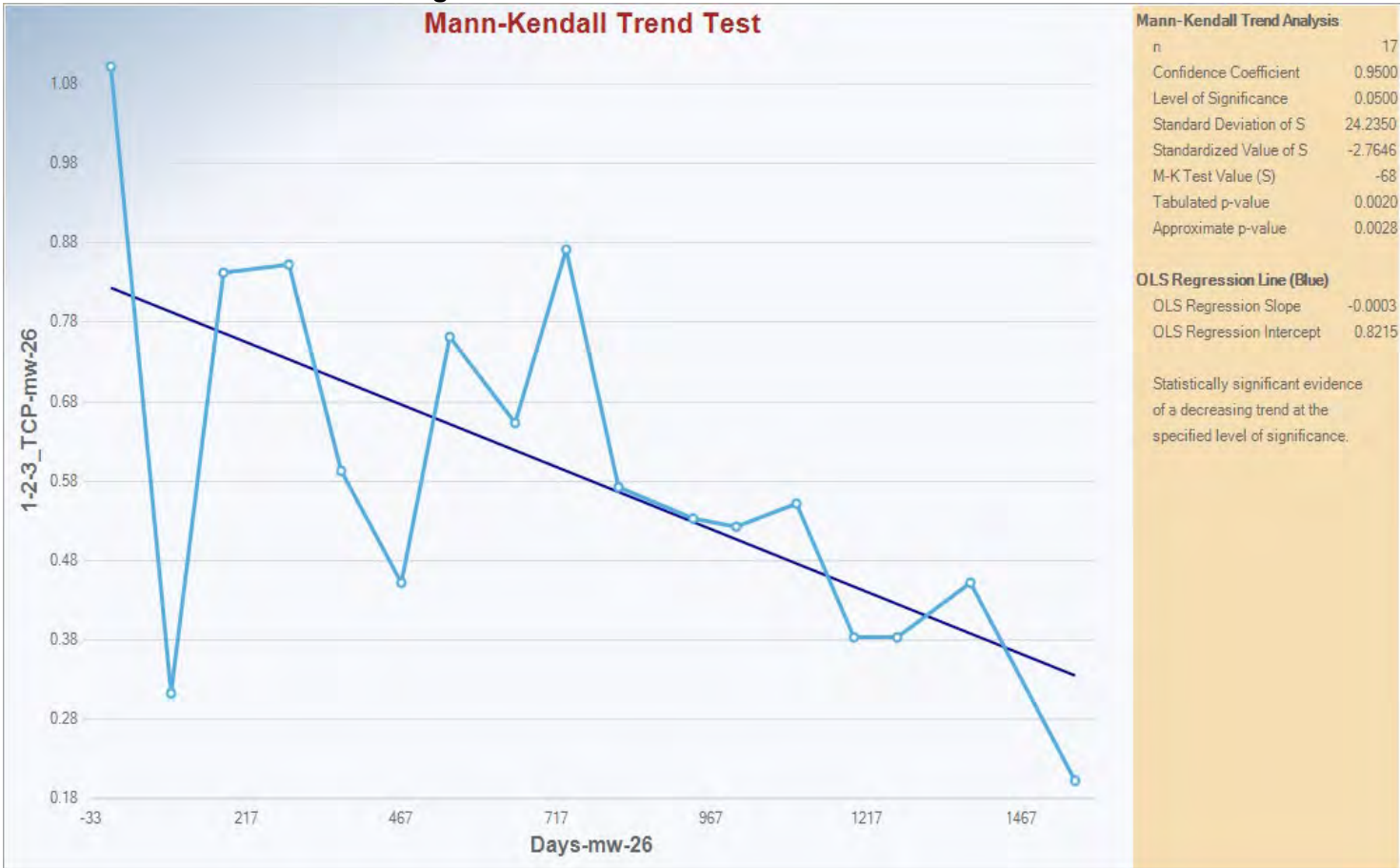
Deep Well MW-16: Stable (no trend)



1,2,3-Trichloropropane Trends

Mid-Plume

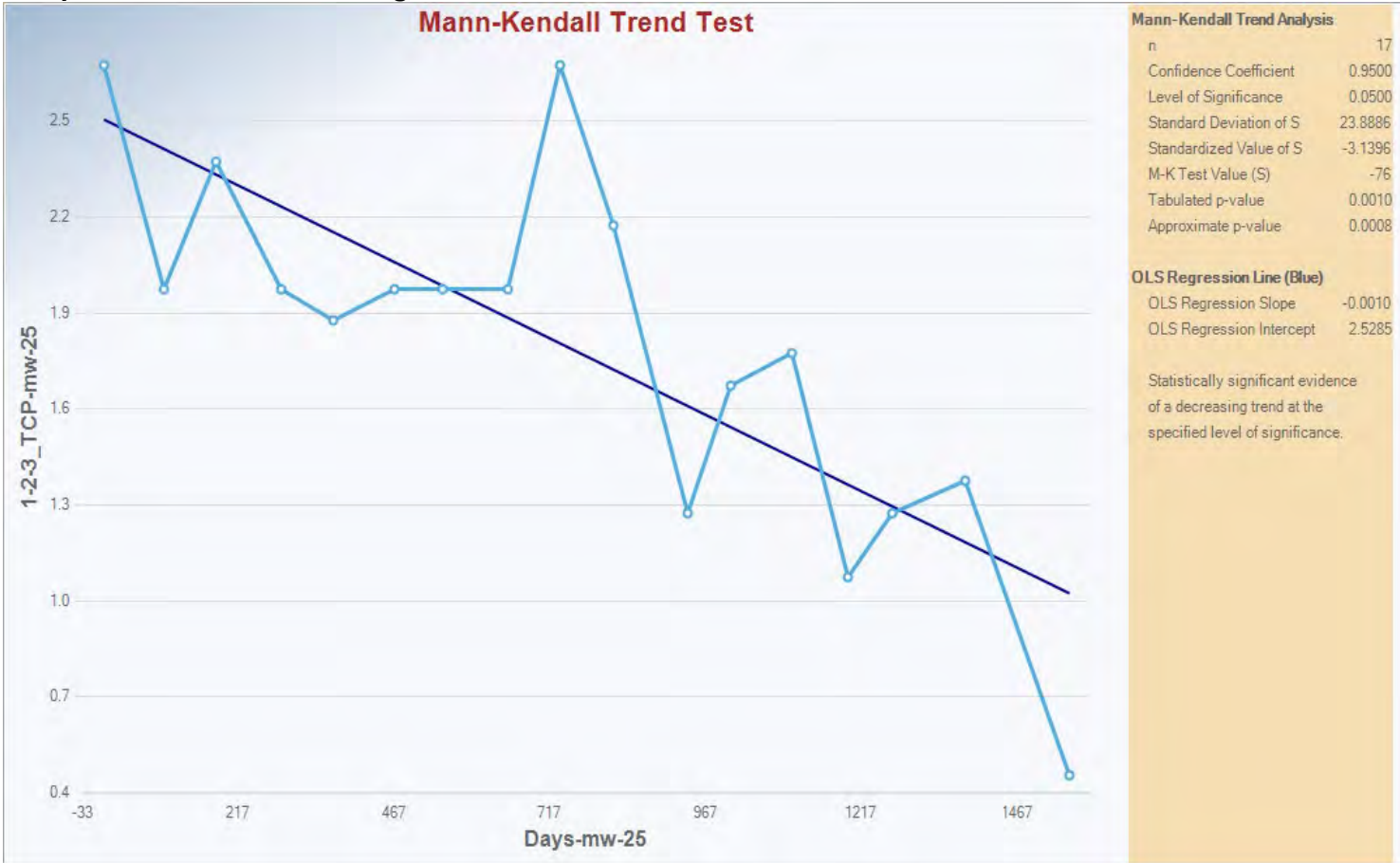
Shallow Well MW-26: Decreasing Trend



1,2,3-Trichloropropane Trends

Mid-Plume

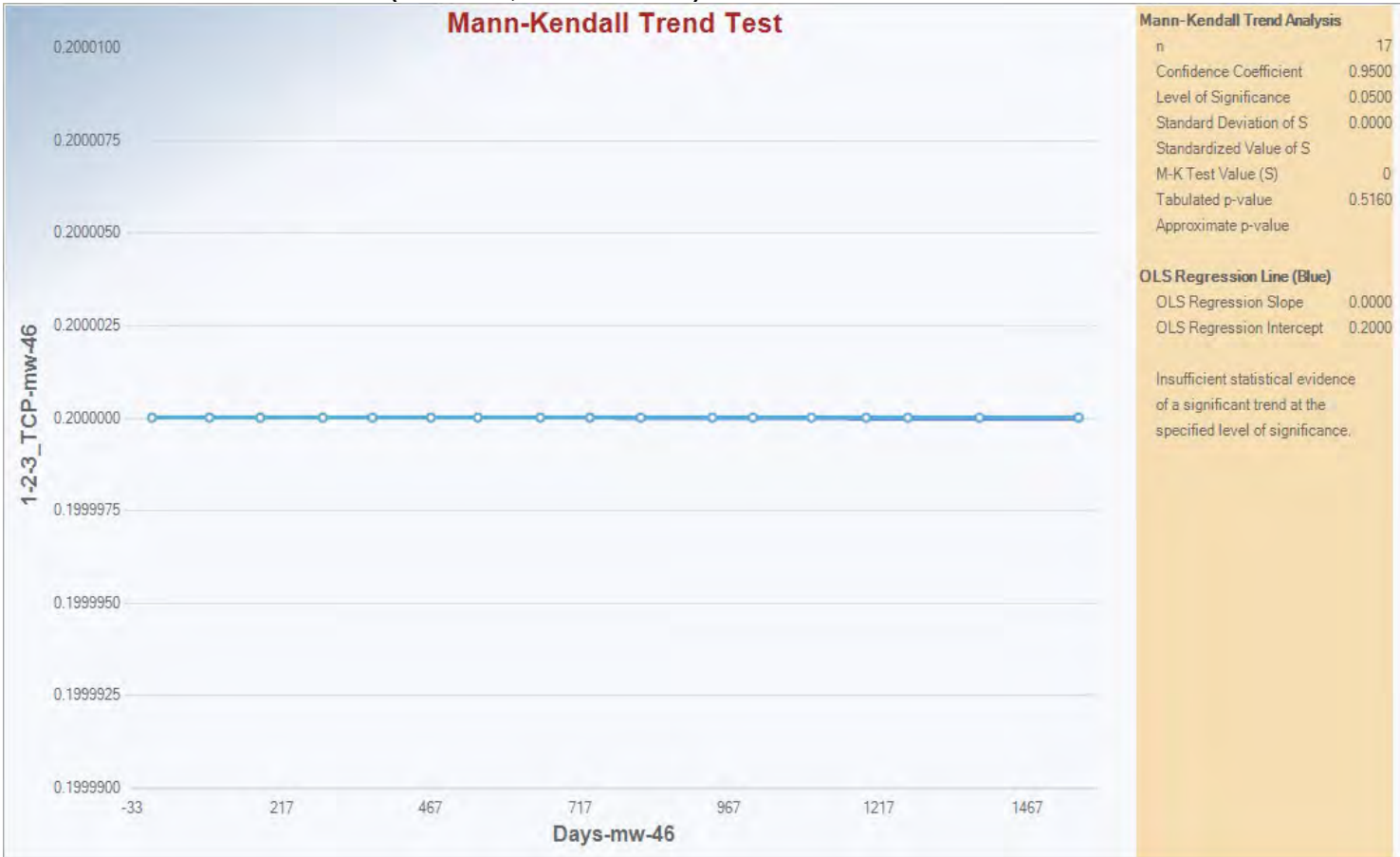
Deep Well MW-25: Decreasing Trend



1,2,3-Trichloropropane Trends

End of Plume

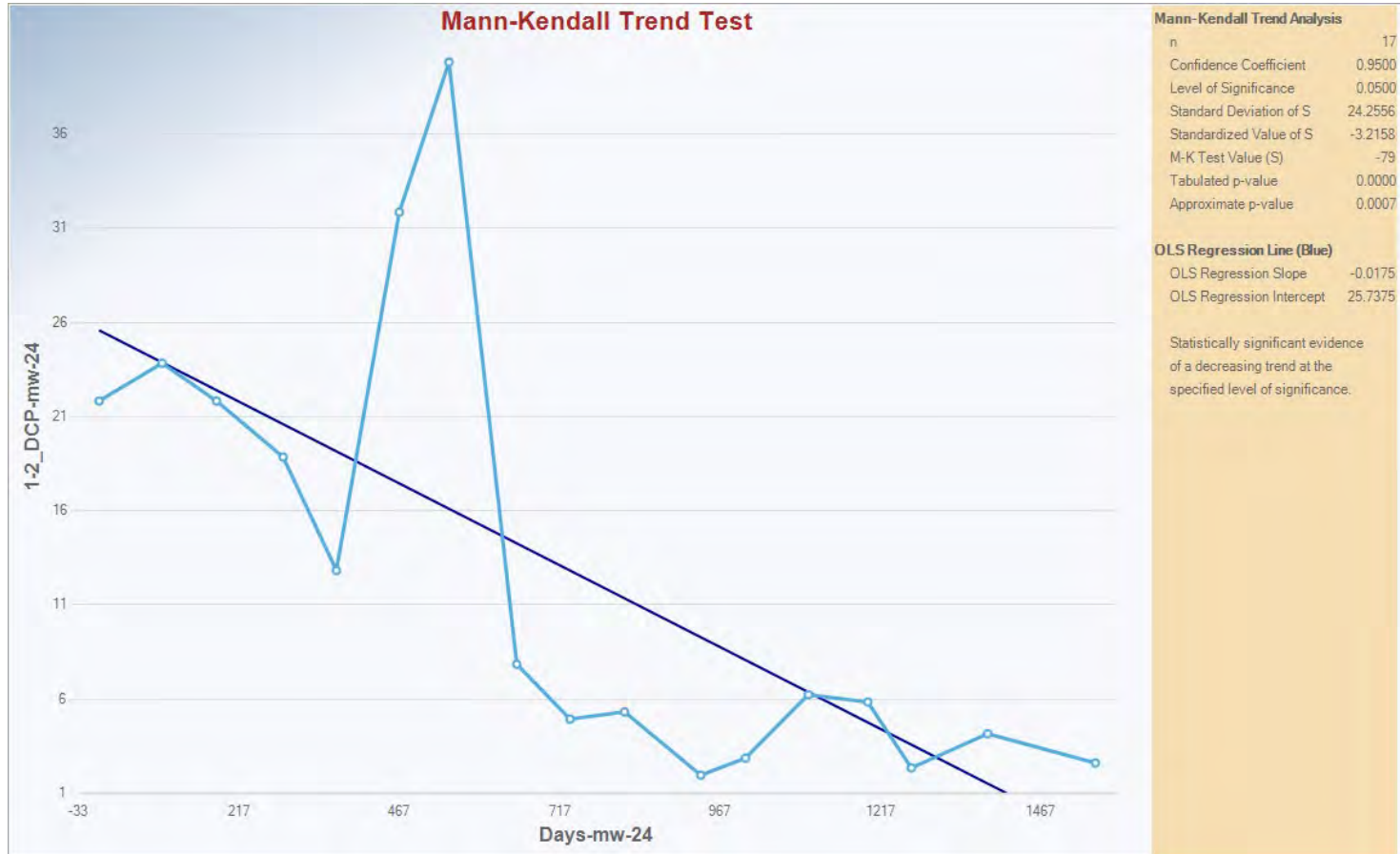
Shallow Well MW-46: Stable (no trend; not detected)



1,2-Dichloropropane Trends

Source Area

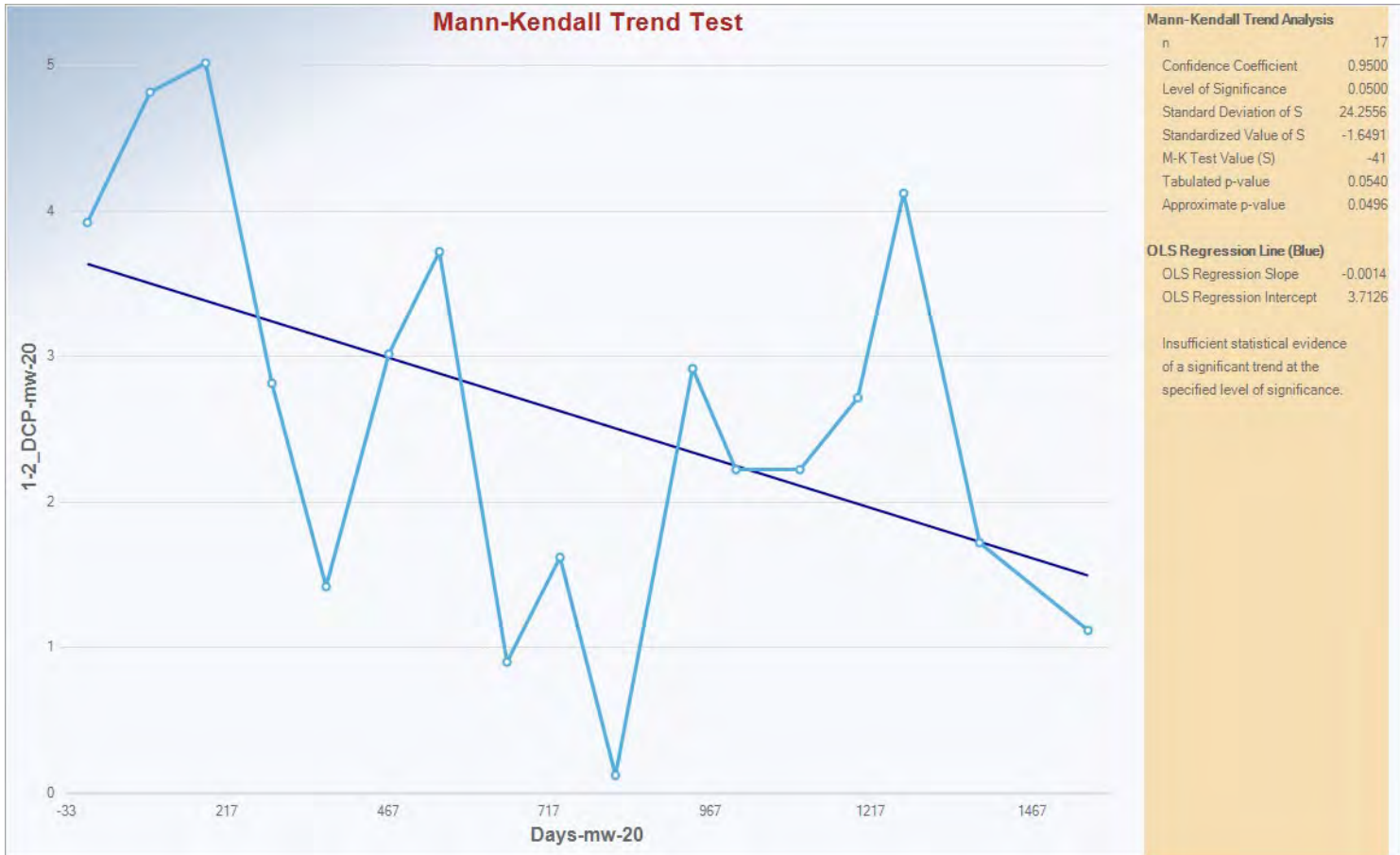
Shallow Well MW-24: Decreasing Trend



1,2-Dichloropropane Trends

Mid-Plume

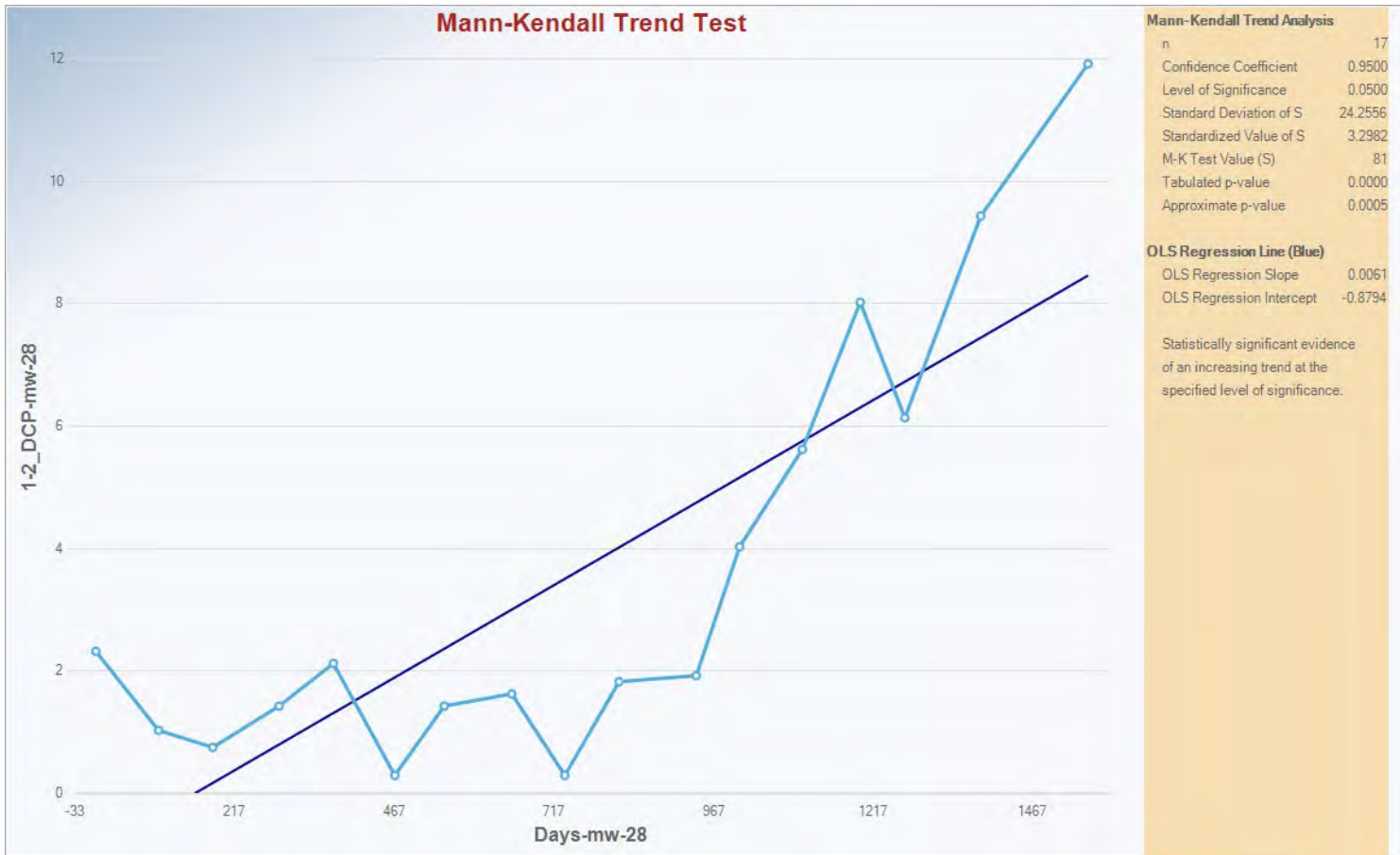
Shallow Well MW-20: Stable (no trend)



1,2-Dichloropropane Trends

Mid-Plume

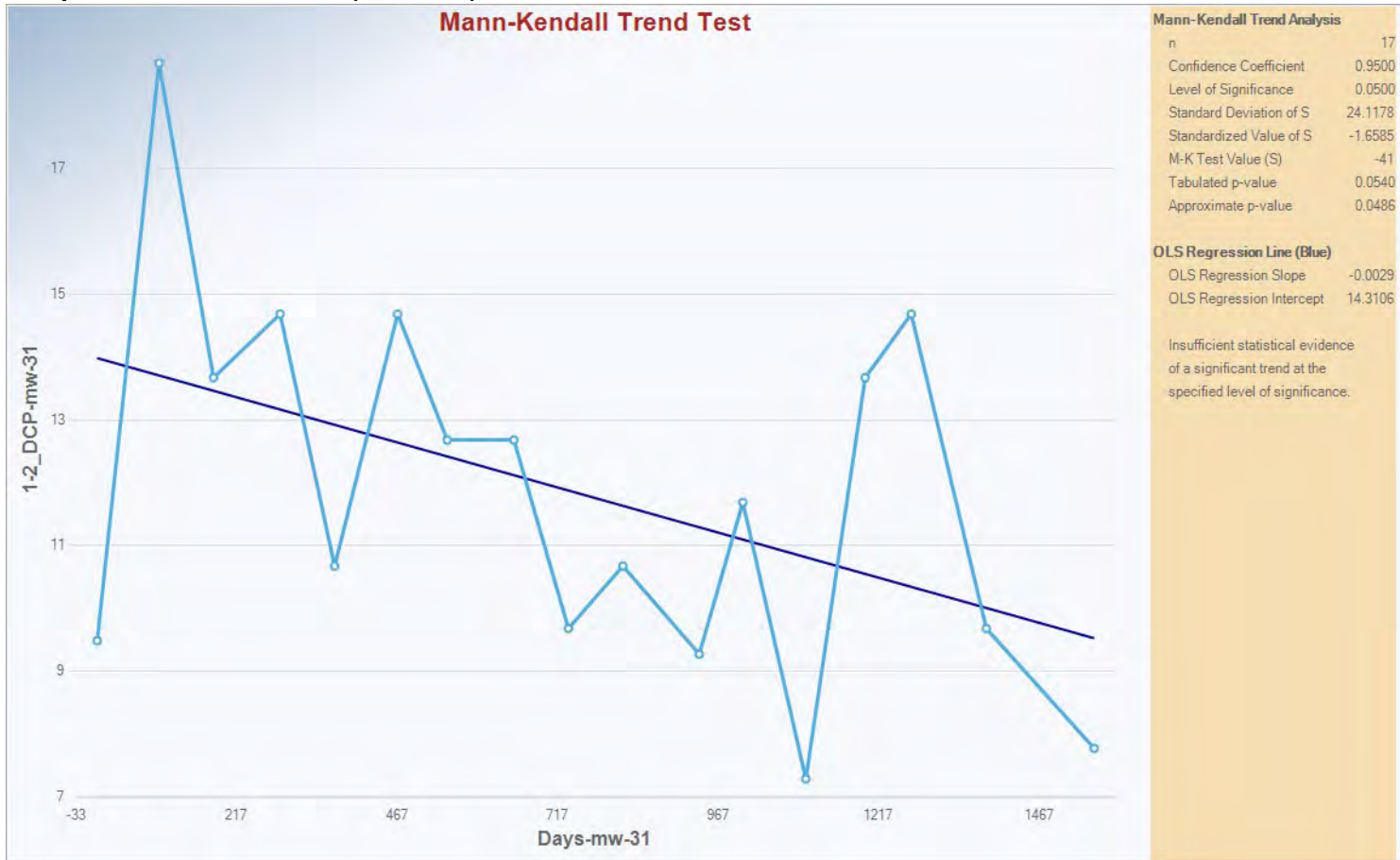
Shallow Well MW-28: Increasing Trend



1,2-Dichloropropane Trends

Mid-Plume

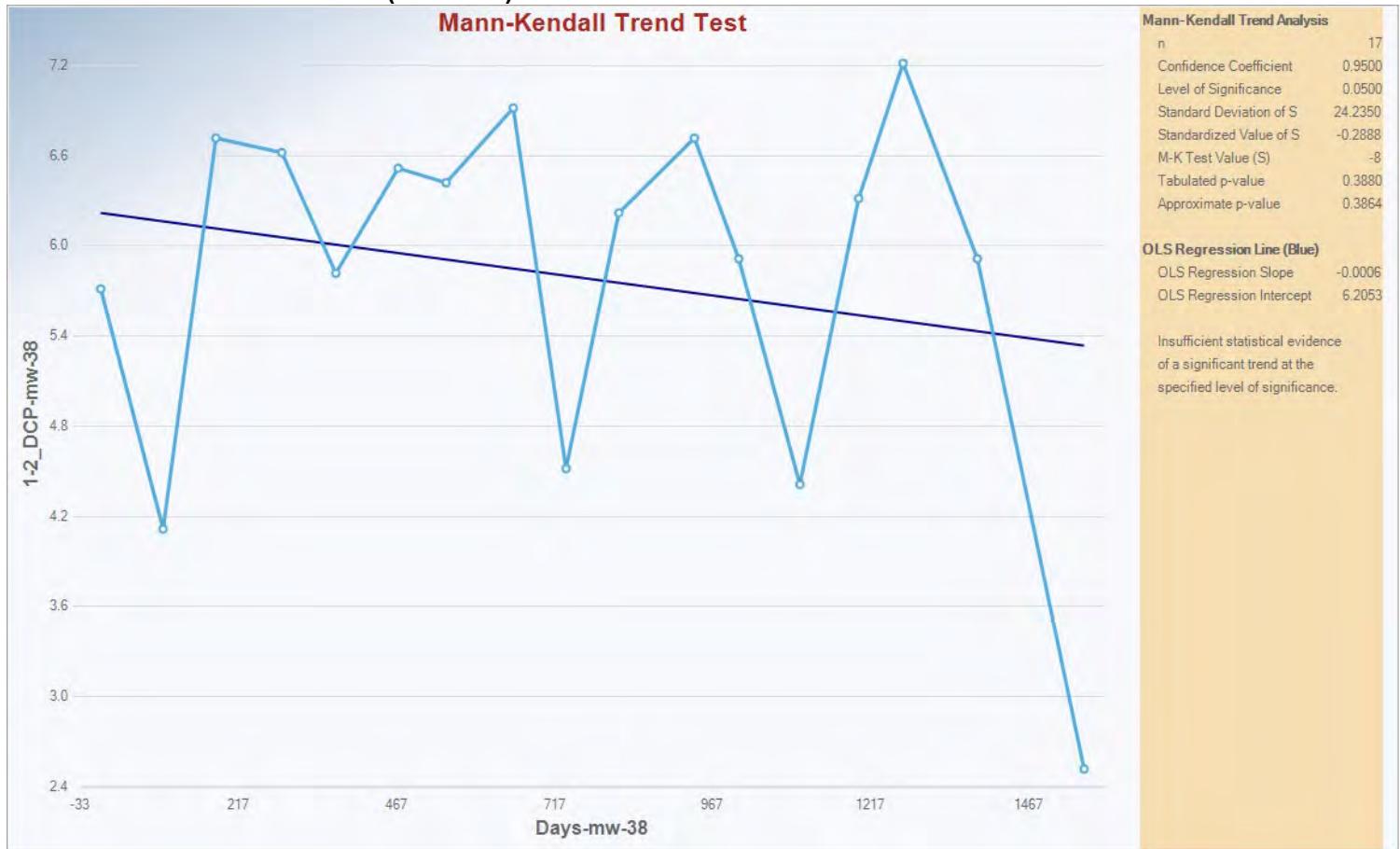
Deep Well MW-31: Stable (no trend)



1,2-Dichloropropane Trends

End of Plume

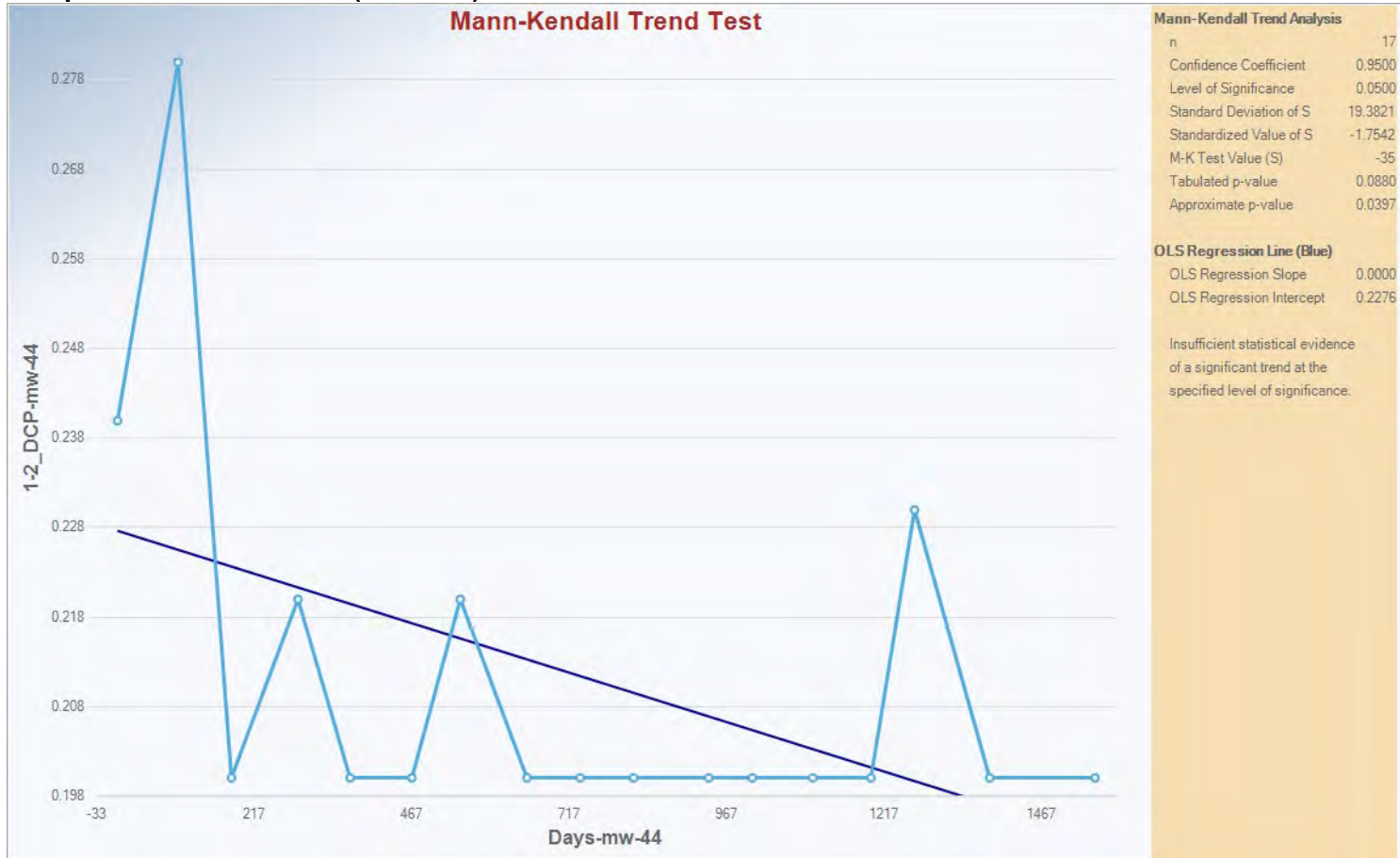
Shallow Well MW-38: Stable (no trend)



1,2-Dichloropropane Trends

End of Plume

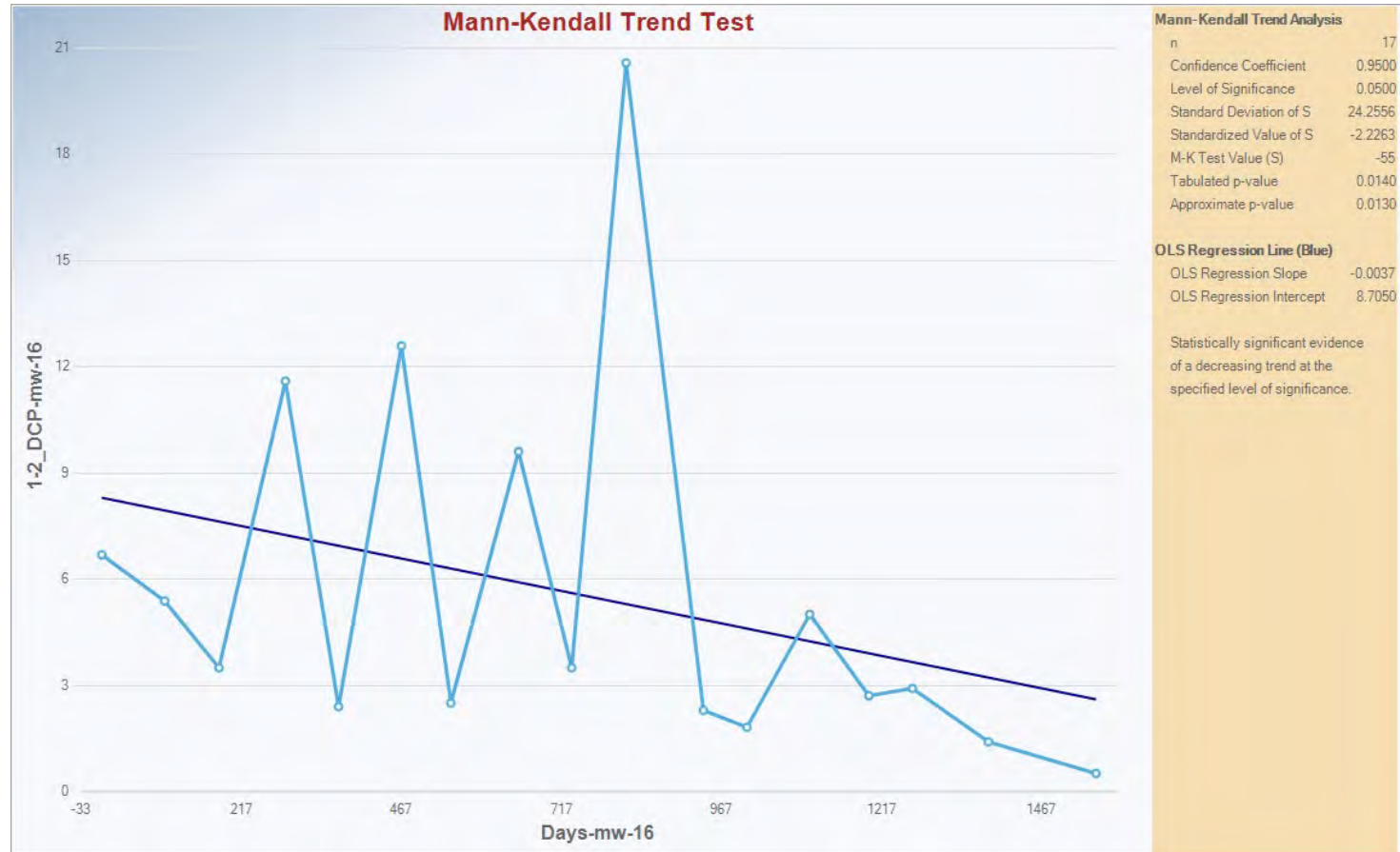
Deep Well MW-44: Stable (no trend)



1,2-Dichloropropane Trends

Source Area

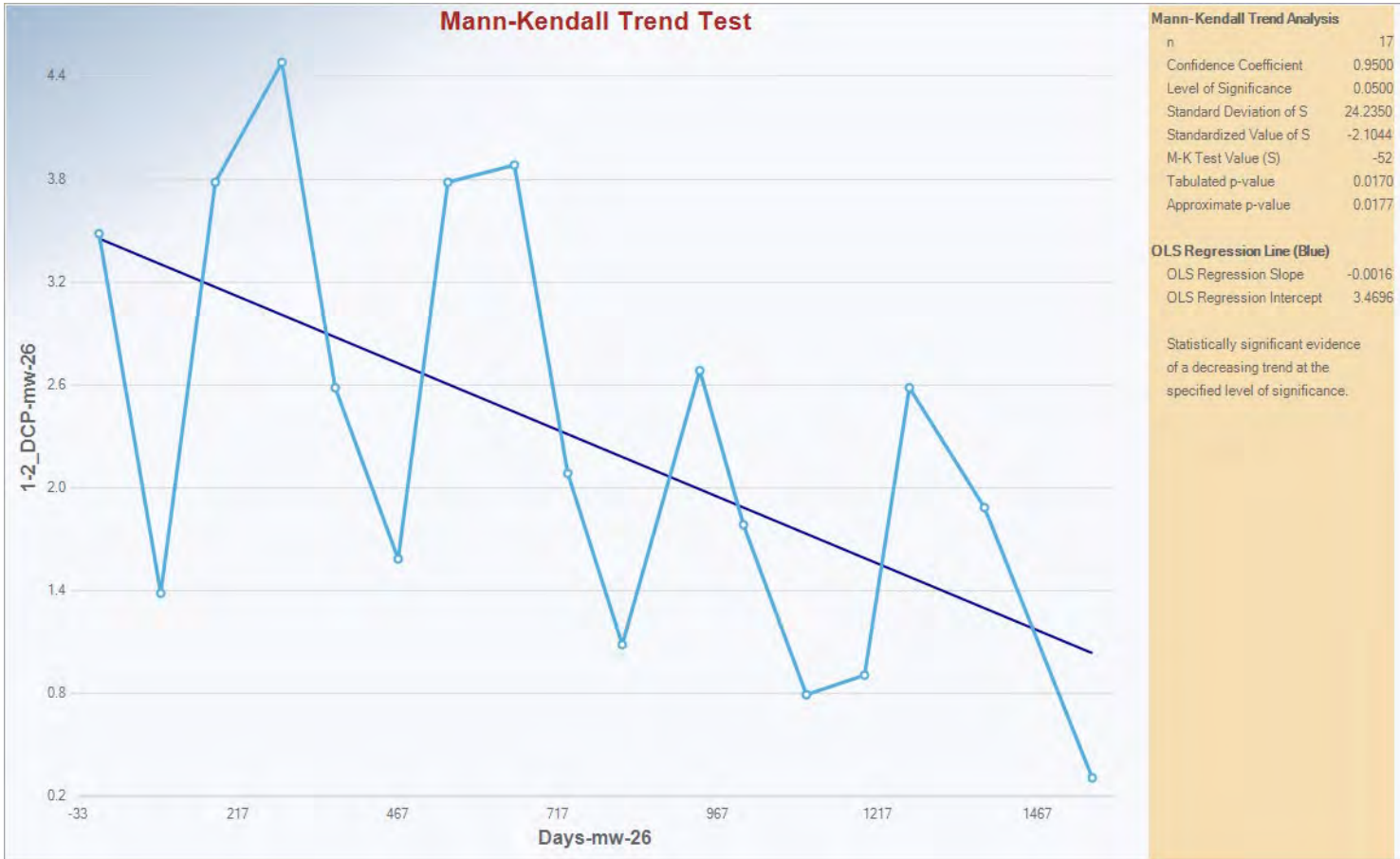
Deep Well MW-16: Decreasing Trend



1,2-Dichloropropane Trends

Mid-Plume

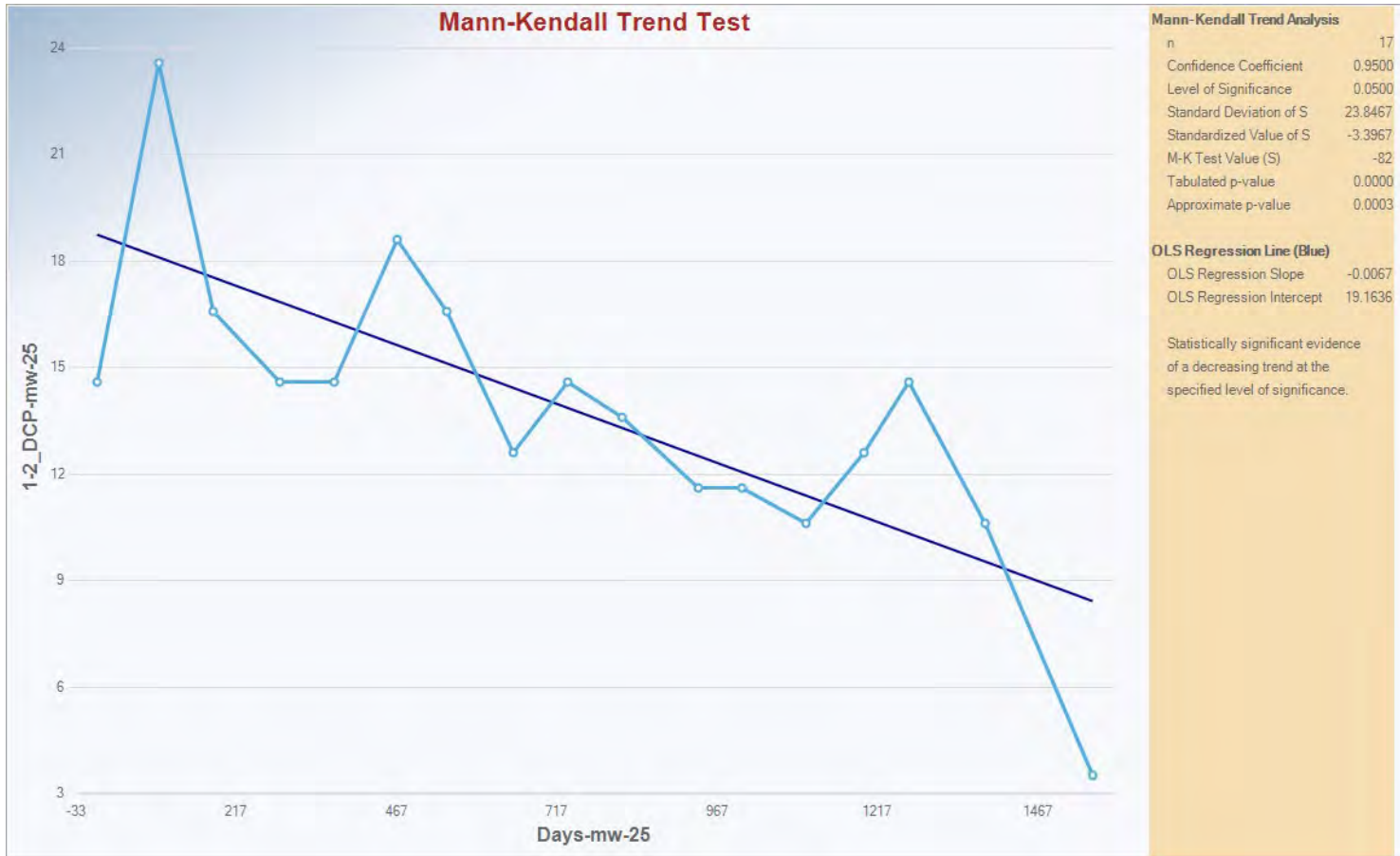
Shallow Well MW-26: Decreasing Trend



1,2-Dichloropropane Trends

Mid-Plume

Deep Well MW-25: Decreasing Trend



1,2-Dichloropropane Trends

End of Plume

Shallow Well MW-46: Stable (no trend)

