

2024 Site Management Periodic Review Report – Durez Inlet

**NYSDEC Site No. 932018
Durez Inlet
560 River Road
North Tonawanda, New York**

Prepared for

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EXECUTIVE SUMMARY

Effective July 1, 1998, Site responsibilities for the former Occidental Chemical Corporation (OxyChem) Durez Inlet (Inlet/Site) in North Tonawanda, New York were assigned by OxyChem to Glenn Springs Holdings, Inc. (GSH), an affiliate of OxyChem. Pursuant to Section 11.0 of the Approved Inlet Remedial Plan (AIRP), GSH is conducting a post-remediation monitoring program at the Inlet.

During the calendar year 2024, hydraulic monitoring and chemical monitoring were conducted on a semiannual basis. Historically, hydraulic monitoring data has shown that the overall direction of groundwater flow at the Site is from east to west, across the upland area of the Inlet toward the Little Niagara River (River) with seasonal variations in groundwater flow at times producing west to east flow from the River into the upland area. The 2024 hydraulic monitoring data indicated an inward gradient from the River towards the upland area along the western edge of the Site while groundwater elevation data for wells located along the eastern edge indicated an east to west flow direction.

Per comment No. 6 on the New York State Department of Environmental Conservation (NYSDEC) conditional approval/response letter for the 2022 Periodic Review Report (PRR) for Durez NT/Inlet Site, GSH pumped dense non-aqueous phase liquid (DNAPL) from the extraction wells (EW-1 through EW-5) during both semiannual monitoring events. The total volume of DNAPL recovered for both monitoring events was 0.84 gallons. Based on field measurements and observations collected in 2024, no DNAPL was observed in the groundwater monitoring wells located outside the cutoff wall (North Lobe). As such, it is reasonable to conclude that the cutoff wall is functioning as designed, and that the remedial program continues to meet its design objectives.

The calendar year 2024 groundwater quality monitoring results are consistent with historical results. Analytical results for wells MW-16I, MW-18I and MW-19I were less than the New York State (NYS) Groundwater Standards for Class GA (potable) groundwater. Concentrations of total Targeted Site Compounds (TSCs) were present in MW-20I (average 2,389 micrograms per liter [$\mu\text{g/L}$] in 2024 versus 2,436 $\mu\text{g/L}$ in 2023) and in MW-22I (average 202 $\mu\text{g/L}$ in 2024 versus 2,775 $\mu\text{g/L}$ in 2023). The general trend in the total TSC concentrations in MW-20I has been downward since 1996. As a result of implementation of the in situ chemical oxidation (ISCO) program in 2011/2012, the concentrations observed in MW-20I were reduced and have since stabilized at these reduced concentrations. Historical concentrations of total TSCs in groundwater samples collected from monitoring well MW-22I have shown both increasing and decreasing trends historically.

A passive diffusion remedial program was implemented from October 2019 through October 2022 at groundwater monitoring wells MW-16I, MW-20I, and MW-22I. Results of the completed program were submitted to the NYSDEC by GSH under a separate cover on January 30, 2023. The NYSDEC approved GSH's recommendation to continue the passive diffusion remediation program in a letter dated April 4, 2023, but requested that the program be assessed on an annual

basis rather than after an additional three-year period. The new passive diffusion remedial program was implemented at groundwater monitoring wells MW-20I and MW-22I in April 2023. The summary report has been included in Appendix E of this PRR.

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1. INTRODUCTION

Effective July 1, 1998, Site responsibilities for the former Occidental Chemical Corporation (OxyChem) Durez Inlet (Inlet) were assigned by OxyChem to Glenn Springs Holdings, Inc. (GSH), an affiliate of OxyChem. Since that time, pursuant to the individual Site documents and subsequent approved modifications, GSH has conducted routine monitoring and maintenance programs at the Site. On August 1, 2022, B&B Engineers and Geologists of New York, P.C. (B&B), an affiliate of Geosyntec Consultants, Inc. (Geosyntec), was retained by GSH to perform operation, maintenance, monitoring, and reporting activities for the Site.

Pursuant to Section 11.0 of the *Approved Inlet Remedial Plan (AIRP)*, GSH is conducting a post-remediation monitoring program at the Inlet. The AIRP is Appendix A to the *Third Stipulation and Partial Consent Judgment* (Third PCJ) filed in United States District Court-Western District of New York by the State and OxyChem as part of the Durez Inlet Remediation Project. The monitoring program has been underway since May 1995, following completion of Site environmental restoration in April 1995.

The requirements of the post-remediation monitoring program were outlined in the NYSDEC-approved “*Inlet Monitoring Plan*” (Rust Environment and Infrastructure, October 1995). The “*Inlet Monitoring Plan*” (IMP) was revised in 2019 (GHD, April 2019) and approved by NYSDEC in an email dated August 13, 2019.

Additional remediation activities that have been conducted over the years include the following:

- An active in situ chemical oxidation (ISCO) program was conducted from April 2011 through April 2012 with injections occurring in April 2011, November 2011, and April 2012.
- A passive diffusion remedial program using Regenesi[®] Oxygen Release Compound (ORC) socks in October 2019 through October 2022.
- A second passive diffusion remedial program using the Regenesi[®] ORC socks beginning in April 2023 with completion in April 2026.

A Site location plan is presented on Figure 1.1.

This Periodic Review Report (PRR) describes the monitoring and maintenance activities conducted and presents the data collected for the Inlet from January 1, 2024 through December 31, 2024. The completed *NYSDEC Institutional Controls and Engineering Controls (ICEC) Certification Form* is included as Appendix A.

Other activities associated with the Site include ongoing evaluation of sediment in the Pettit Cove. This evaluation is separate from the operation, maintenance, and monitoring (OM&M) activities for the Durez Inlet Site, and therefore, is not discussed in the PRR. Documentation associated with the passive diffusion ORC program and the Pettit Cove sediment evaluation will continue to be provided to the NYSDEC under separate cover (Pettit Cove sediment evaluation) or as an attachment to the PRR (passive diffusion ORC program).

2. INLET MONITORING PROGRAM

The activities associated with the Inlet monitoring program in accordance with Section 11.0 of the AIRP include:

- Measurement of the Little Niagara River (River) water level and monitoring well groundwater levels
- Chemical analysis of groundwater samples
- Monitoring and operation of dense non-aqueous phase liquid (DNAPL) extraction wells
- Maintenance of wells
- Inspection of Site physical characteristics
- Evaluation of remediation performance
- Submittal of summary reports to the NYSDEC

This annual report presents the results of hydraulic and chemical monitoring of groundwater; monitoring and extraction of DNAPL; and inspection activities conducted at the Inlet for the calendar year 2024 in support of the AIRP.

2.1 Purpose

The IMP outlines the DNAPL and groundwater monitoring program and a systematic inspection of the Inlet. The purpose of the IMP is to verify the effectiveness of the remedy in the North Lobe, such as extraction of free or mobile DNAPL and isolation of the residuals by the cutoff and sheet pile walls. The North Lobe is defined as the area located inside of the cutoff wall to the north of the Inlet Cove (Figure 2.1). Five (5) DNAPL extraction wells are located within the North Lobe. Eight (8) groundwater monitoring wells are located within and outside of the North Lobe for the purposes of hydraulic and chemical groundwater monitoring. Specific objectives of the DNAPL/groundwater monitoring program for the North Lobe are as follows:

- To identify and remove, as necessary, DNAPL that collects in the extraction well sumps;
- To characterize groundwater flow directions and hydraulic gradients in the vicinity of the North Lobe;
- To identify and document long-term changes in groundwater quality in the North Lobe area (inside and outside of the cutoff wall); and
- To inspect groundwater collected from the lower alluvium monitoring wells outside of the North Lobe for the presence of DNAPL.

Inspection of the Site includes observations for evidence of erosion and disturbance to remedial structures.

2.2 Scope

2.2.1 Groundwater Quality Monitoring Program

The groundwater quality monitoring program (chemical monitoring) consists of collecting and analyzing groundwater samples from five monitoring wells designated as "intermediate" wells, consisting of one well hydraulically upgradient to the North Lobe (MW-16I) and four wells hydraulically down- or cross-gradient to the North Lobe (MW-18I, MW-19I, MW-20I, and MW-22I). The groundwater samples are analyzed for the Targeted Site Compounds (TSCs), consisting of:

Benzene	Toluene	Chlorobenzene
1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	

The groundwater samples are also inspected for the presence of DNAPL. The monitoring well locations are shown on Figure 2.1.

2.2.2 Hydraulic Monitoring Program

The hydraulic monitoring program consists of measuring groundwater elevations in seven intermediate monitoring wells (MW-15I, MW-16I, MW-17I, MW-18I, MW-19I, MW-20I, and MW-22I) installed in the lower alluvium outside the cutoff wall, and one monitoring well (MW-21S) installed in the upper alluvium and fill inside the cutoff wall and designated as a "shallow" well. Groundwater elevations and DNAPL levels are also measured in five extraction wells (EW-1, EW-2, EW-3, EW-4, and EW-5) installed in the lower alluvium inside the cutoff wall in the isolated area where DNAPL has been detected. The River elevation is recorded utilizing a staff gauge (SG) located along the River's edge and is measured before and after groundwater levels are measured. The monitoring and extraction well locations and the SG location are presented on Figure 2.1.

DNAPL extraction only occurs during the boating off-season from October 15 to April 15. During this period, DNAPL is removed from an extraction well when the level of DNAPL in that well reaches the top of the extraction well sump. During the boating season when DNAPL extraction does not occur, any accumulated DNAPL remains within the containment wall of the North Lobe area. The top of the containment wall is at an elevation of approximately 562 feet above mean sea level (AMSL), while the top of sump elevations range from 538.10 to 539.20 feet AMSL (approximately 24 feet below the top of the containment wall). The actual cut off wall embedment is approximately 530 feet AMSL with some variations due to obstructions. In addition, the cutoff wall is anchored 4- to 6-feet into the upper till. The bottom elevation of the NAPL extraction sumps is 537 feet AMSL which is approximately 8-feet above the embedment of the cutoff wall. Therefore, containment of DNAPL occurs even when DNAPL is not being pumped during the boating season.

3. INLET MONITORING PROGRAM RESULTS

3.1 Groundwater Quality Monitoring

Sampling, analytical protocols, and detection limits for the sampling program have been established and set forth in the original Partial Consent Judgment (PCJ) Appendix B-1, which is also included as Appendix B to the IMP. The IMP also includes sampling and field procedures that supplement those in the PCJ. The five intermediate groundwater monitoring wells (MW-16I, MW-18I, MW-19I, MW-20I, and MW-22I) were sampled semiannually on April 9, 2024 and October 21, 2024. All sampling was conducted in accordance with the procedures described in Appendix B of the IMP.

ALS Environmental (ALS) in Rochester, New York, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified (NELAP New York ID # 10145) laboratory, conducted the sample analyses. The analytical results are summarized in Table 2.1. The Quality Assurance/Quality Control (QA/QC) reviews for the two semiannual sampling events are provided in Appendix B.

The analytical results were compared to New York State (NYS) Class GA Groundwater Standards (Class GA Groundwater Standards) [NYS GQS] set forth in the Division of Water “*Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*” (June 1998). The comparison is presented in Table 2.1. Concentrations of individual TSCs versus time for the five monitoring wells sampled are presented on Charts 1 through 5. Graphs showing concentrations of total TSCs versus time are presented on Figures 2.2 through 2.6. Only the TSC concentrations for the parent samples are shown on the charts and figures. Historical groundwater results and TSC concentrations are provided in Appendix C.

3.1.1 Chemical Concentrations

Groundwater quality generally remained stable during the calendar year 2024. A review of the analytical results for the two sampling events conducted in 2024 from monitoring wells MW-16I, MW-18I and MW-19I indicated that TSC concentrations were non-detect with the exception of chlorobenzene (October event) and toluene (April and October events) at MW-16I and toluene at MW-19I during the April event. Chlorobenzene and toluene were detected at less than 1 ug/L for both compounds which is below the 5 ug/L NYSGQS. Toluene was detected at an estimated concentration of 0.275 ug/L, which is below the NYSGQS. Concentrations of benzene; chlorobenzene; and 1,3- and 1,4-dichlorobenzene detected at the remaining two monitoring wells, MW-20I and MW-22I, were significantly greater than the NYS GQS, which is also consistent with previous monitoring results.

A passive diffusion remedial program was implemented at groundwater monitoring wells MW-16I, MW-20I, and MW-22I from October 2019 through October 2022. Results of the completed program was submitted to the NYSDOC by GSH under a separate cover on

January 30, 2024. The NYSDEC approved GSH's recommendation to continue the passive diffusion remediation program in a letter dated April 4, 2023 but requested that the program be assessed on an annual basis rather than after an additional three-year period. The new passive diffusion remedial program was implemented at groundwater monitoring wells MW-20I and MW-22I in April 2023. A summary report for the 2024 activities under this program can be found in Appendix E.

The groundwater quality in each of the five intermediate groundwater monitoring wells is further discussed below.

MW-16I

The concentrations of total TSCs in samples collected from monitoring well MW-16I, which is considered to be an upgradient well for the Site, were primarily non-detect (ND) at 1.0 micrograms per liter ($\mu\text{g/L}$) from the time monitoring began in July 1995 until June 2006 (Figure 2.2 and Appendix C). In June 2006, the total concentration of TSCs at this monitoring well was 17.63 $\mu\text{g/L}$. In September 2006, the total TSC concentration at this monitoring well decreased back to nearly ND and then began to fluctuate, demonstrating a general increasing trend. The reason for this increasing trend is not known. Total TSC concentrations have remained at less than 4 $\mu\text{g/L}$ since September 2006, except for a total TSC concentration of 5.78 $\mu\text{g/L}$ in August 2023.

Total TSC concentrations at monitoring well MW-16I in 2024 was 1.14 $\mu\text{g/L}$ during the spring monitoring event and 0.536 $\mu\text{g/L}$ (0.655 $\mu\text{g/L}$ in the duplicate) during the fall monitoring event. The concentrations were less than the 2023 spring monitoring event and greater than the 2023 fall monitoring event. These concentrations were similar to the total TSC concentrations in 2023.

During each of the 2024 monitoring events, the individual TSCs in MW-16I were either ND or were detected at estimated concentrations below the reporting limits of 1.0 $\mu\text{g/L}$ and NYS GQS, except for toluene during the spring monitoring event (Table 2.1). Benzene was non-detect for both monitoring events. Benzene has been detected consistently at estimated concentrations less than 1.0 $\mu\text{g/L}$ or slightly greater than 1.0 $\mu\text{g/L}$ since 2006. Benzene marginally exceeded the NYS GQS in at least one quarter per year from 2013 through 2018 but has not been detected at a concentration greater than the NYS GQS since February 2018. Toluene was detected at concentrations of 1.14 $\mu\text{g/L}$ and an estimated concentration of 0.235 $\mu\text{g/L}$ (0.294 $\mu\text{g/L}$ estimated in the duplicate) detected during the spring and fall monitoring events, respectively. Chlorobenzene was non-detect for the spring monitoring event but detected at an estimated concentration of 0.301 $\mu\text{g/L}$ (0.361 $\mu\text{g/L}$ in the duplicate) during the fall monitoring event. Concentrations over time for chlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene at MW-16I are shown in Chart 3.

MW-18I

The total concentrations of TSCs in samples collected from monitoring well MW-18I have been primarily ND since July 1999 (Figure 2.3 and Appendix C). Individual concentrations of TSCs at this location have not exceeded the NYS GQS since April 1999. The concentrations of individual

TSCs during 2024 were all ND at 1.0 µg/L in both the spring and fall samples and the spring sample duplicate (Table 2.1). Concentrations over time for chlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene at MW-18I are shown in Chart 4.

MW-19I

The total concentrations of TSCs in samples collected from monitoring well MW-19I have been primarily ND since July 2002 (Figure 2.4 and Appendix C). Individual concentrations of TSCs at this location have not exceeded the NYS GQS since July 1999. Individual concentrations of TSCs during 2023 were all ND at 1.0 µg/L or at estimated concentration(s) less than the NYS GQS (Table 2.1). Toluene was detected at an estimated concentration of 0.275 µg/L during the spring monitoring event and non-detect during the fall sampling event. Concentrations over time for chlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene at MW-19I are shown in Chart 5.

MW-20I

The total concentration of TSCs in samples collected from well MW-20I has fluctuated during the years of Site monitoring; however, overall, the trend has been downward since 1996 (Figure 2.5 and Appendix C). In 2008 and 2009, the total concentrations of TSCs were consistently greater than 10,000 µg/L. Following the first ISCO injection event in April 2011, the total concentration of TSCs decreased to less than 3,200 µg/L during the May 2011 sampling event. Upon completion of the final ISCO injection event in April 2012, the total concentration of TSCs decreased to less than 2,200 µg/L during the May 2012 sampling event. From May 2012 to December 2020, the total concentration of TSCs had trended slightly upwards, likely due to rebound effects following the ISCO injections. Since December 2020, the total concentration of TSCs has been trending downward. Overall, the concentrations remain stable. Total TSC concentrations have remained at less than 4,000 µg/L since February 2012.

Total concentrations of TSCs during 2024 were 2,399 µg/L during the spring monitoring event and 2,379 µg/L during the fall monitoring event. These concentrations are similar to the total TSC concentrations in 2023 (2,737 µg/L during the spring monitoring event and 2,136 µg/L during the fall monitoring event).

During each of the 2024 monitoring events, benzene; chlorobenzene; and 1,3- and 1,4-dichlorobenzene were detected at concentrations greater than the NYS GQS at MW-20I (Table 2.1). Benzene was detected at a concentration of 25.8 µg/L and non-detect during the spring and fall monitoring events, respectively. The spring monitoring event concentration of benzene was greater than the NYS GQS of 1.0 µg/L. The spring concentration was greater than and the fall concentration was less than the concentration detected in 2023 (12.0 µg/L in the spring and 15.1 µg/L (estimated) in the fall), but within the historical concentration range for benzene at this location (refer to Appendix C). Concentrations of chlorobenzene; 1,3-dichlorobenzene; and 1,4-dichlorobenzene detected in 2024 were marginally less than the concentrations detected in 2023. The concentrations of these three TSCs have remained relatively stable since approximately 2012 along with a slight downward trend for all three compounds since that time. Concentrations of individual TSCs at MW-20I versus time are shown on Chart 1.

The post-injection concentrations observed in MW-20I have remained orders of magnitude lower than those observed prior to the implementation of the ISCO program and have since stabilized and appear to be trending downward with the implementation of the passive diffusion ORC program.

MW-22I

The total concentration of TSCs in samples collected from well MW-22I has fluctuated during the years of Site monitoring (Figure 2.6 and Appendix C). The total TSC concentration at this location exhibited an overall increasing trend from approximately 2005 to approximately 2009, and then exhibited fluctuations from 2009 through 2016. Concentrations were relatively stable and consistent from approximately 2016 through 2019. Following implementation of the passive diffusion remedial program in October 2019, both total and individual concentrations of TSCs decreased to near-historic lows in May 2020 and then started increasing. The total concentrations of TSCs in well MW-22I during 2024 were 85.4 µg/L during the spring 2024 monitoring event and 318 µg/L during the fall 2024 monitoring event, which were significantly less than the total TSC concentrations of 4,733 µg/L and 818 µg/L during the spring and fall 2023 events, respectively. These wide-ranging concentration fluctuations are likely attributable to the ongoing passive diffusion remedial program (refer to Appendix E) and are expected to be short-term.

During each of the 2024 monitoring events, benzene; chlorobenzene; and 1,3- and 1,4-dichlorobenzene were detected at concentrations greater than the NYSGQS at MW-22I (Table 2.1). Benzene was detected at concentrations of 2.14 µg/L and 19.9 µg/L during the spring and fall monitoring events, respectively, which were greater than the NYSGQS of 1 µg/L. These concentrations were less than the concentrations detected in 2023 (29.3 µg/L in the spring and 28.4 µg/L in the fall), respectively. The concentration of benzene detected at this location was relatively stable from approximately 2014 through October 2019 and has also fluctuated since implementation of the first passive diffusion remediation program (October 2019 to October 2022). A second passive diffusion remediation program was implemented in April 2023. Concentrations of chlorobenzene; 1,3-dichlorobenzene; and 1,4-dichlorobenzene detected in 2024 were slightly lower during the spring 2024 monitoring event than the concentrations detected in the spring of 2023, while concentrations were much lower in the fall 2024 monitoring event than the concentrations detected in the fall of 2023. Concentrations of individual TSCs at MW-22I with time are shown on Chart 2.

Although the 2011 to 2012 ISCO program targeted the areas around MW-20I and MW-22I, the concentrations of TSCs in MW-22I were consistently lower than in MW-20I following the ISCO treatment, up until 2021. Total concentrations of TSCs in MW-22I were reduced after the 2011 and 2012 ISCO events to less than 1,000 µg/L; however, rebound was observed following the injection events. The increase in concentrations since the 2011 and 2012 ISCO events is indicative of rebound within clayey soils after three injections of activated sodium persulfate however, the passive diffusion programs may have contributed to additional dissolution of TSCs and the increases in 2021 through 2024.

Total TSC concentrations in MW-20I and MW-22I during 2021, 2022, 2023, and 2024 are summarized and presented in the following tables.

Table A 2021 Total TSC Concentrations (µg/L)

Well Location	First Semiannual Period	Second Semiannual Period
MW-20I	3,546	3,229
MW-22I	3,870	4,051

Table B 2022 Total TSC Concentrations (µg/L)

Well Location	First Semiannual Period	Second Semiannual Period
MW-20I	3,055 (2,672 duplicate)	2,511
MW-22I	4,104	3,846

Table C 2023 Total TSC Concentrations (µg/L)

Well Location	First Semiannual Period	Second Semiannual Period
MW-20I	2,737	2,136
MW-22I	4,733	818

Table D 2024 Total TSC Concentrations (µg/L)

Well Location	First Semiannual Period	Second Semiannual Period
MW-20I	2,399	2,379
MW-22I	85	318

The clayey (tight) soils, the sheet pile wall installed cross-gradient to groundwater flow, the adjacent River, and a clay aquitard surrounding the MW-20I and MW-22I well cluster do not allow significant groundwater flow through this area of the Site. These factors, combined with the ISCO injections and the passive diffusion programs, help to explain the fluctuating concentrations observed at well MW-22I in the years subsequent to the injections. No DNAPL has been observed in MW-22I during any of the monitoring events.

Figure 2.6 and Chart 2 show that the concentrations of TSCs in MW-22I were lower than the pre-injection concentrations and were relatively stable until concentrations started increasing in 2020. These increases in concentration in MW-22I likely represent a short-term fluctuation associated with the first passive diffusion remedial program implemented in October 2019 and completed in October 2022. A second passive diffusion remedial program was implemented in April 2023.

3.1.2 Chemical Trends

As indicated in Section 3.1.1, graphs of the total concentrations of TSCs in monitoring wells MW-16I, MW-18I, MW-19I, MW-20I, and MW-22I since completion of Site remedy (April 1995) through the end of the year 2024 are presented on Figures 2.2 through 2.6. Concentrations of individual TSCs are shown in Charts 1 through 5. The historical and current analytical data for these wells are presented in Appendix C.

A review of the graphs and data indicate:

1. While occasional detections of low concentrations of the TSCs have occurred in the upgradient monitoring well MW-16I, the concentrations of the TSCs in this well have been less than the NYS GQS since July 1996, with the exception of:
 - a. the chlorobenzene concentrations during the June 2006 sampling event (16 µg/L) and October 2020 sampling event (7.04 µg/L [estimated] in the duplicate sample versus 2.79 µg/L [estimated] in the parent sample) and the April 2023 sampling event (5.51 µg/L [duplicate was 5.13 µg/L])
 - b. the benzene concentrations during the August 2009, November 2013, May and November 2014, May 2015, February 2016, February 2017, and February 2018 sampling events. These benzene concentrations exceeding the NYS GQS of 1.0 µg/L have ranged from 1.1 to 1.3 µg/L.
 - c. No other TSC concentrations exceeded the NYS GQS in 2024.
2. Individual concentrations of TSCs detected in groundwater samples collected from monitoring wells MW-18I and MW-19I have been less than the NYS GQS since October 1999.
3. Although there is variability in the concentrations of TSCs in monitoring well MW-20I between groundwater monitoring events, concentrations have stabilized at lower than historical levels, with slight increases in concentrations since 2012 until December 2020. This is likely due to rebound following completion of the 2011/2012 ISCO injections. Since December 2020, total TSCs have trended downward.
4. The concentrations of TSCs in groundwater samples collected from monitoring well MW-22I have fluctuated historically. Concentrations were relatively stable and consistent from approximately 2016 through 2019. Increases in concentrations of TSCs

have been observed since the start of the first passive diffusion remedial program in October 2019 through October 2022, but these increases appeared to be stabilizing during the passive diffusion program and was likely due to changing geochemical conditions in the subsurface resulting from the passive diffusion remedial program. The concentration of TSC increased again during the spring 2023 monitoring event but decreased significantly during the fall 2023 monitoring. A second passive diffusion program was implemented in April 2023 and could explain the decrease in TSC concentrations from the April 2023 sampling event to the October 2023 sampling event. The TSC concentrations again decreased significantly in the April 2024 compared to 2023 TSC concentrations and the October 2024 concentrations were less than the fall 2023 concentrations.

3.1.3 Passive Diffusion Remediation at MW-16I, MW-20I, and MW-22I

The first passive diffusion remedial program was implemented at groundwater monitoring wells MW-16I, MW-20I, and MW-22I from October 2019 through October 2022. Results of the completed program were submitted to the NYSDEC by GSH under a separate cover on January 30, 2023. The NYSDEC approved GSH's recommendation to continue the passive diffusion remediation program in a letter dated April 4, 2023 but requested that the program be assessed on an annual basis rather than after an additional three-year period. The new passive diffusion remedial program was implemented at groundwater monitoring wells MW-20I and MW-22I in April 2023. In accordance with the schedule included in the letter *2023 Schedule for Passive Diffusion Remediation Program*, during the period monitored (January 1, 2024 through June 30, 2024), the ORC socks were installed in MW-20I and MW-22I on April 8, 2024 after the semiannual sampling event, and were removed and replaced on June 28, 2024. The socks were removed on September 19, 2024 and installed on October 21, 2024 after the semiannual sampling event. The summary report for the 2024 activities under this program can be found in Appendix E.

3.2 Hydraulic Monitoring

Groundwater elevations were measured semiannually in the DNAPL extraction wells, and the groundwater monitoring wells on April 8 and October 17, 2024.

During a hydraulic monitoring event, the elevation of the River is also measured for comparison to the groundwater elevations. A summary of the 2024 water elevations for the eight monitoring wells, five extraction wells, and the River is presented in Table 2.2.

Groundwater potentiometric surface maps for the Site have been prepared based on the semiannual groundwater elevations and are presented on Figures 2.7 and 2.8.

A review of the hydraulic data measured during the 29 years of monitoring shows a correlation of the lower alluvium groundwater elevations (as measured in Inlet Site monitoring wells) with the elevation of the River. The potentiometric contours presented on Figures 2.7 and 2.8 show that groundwater flow is generally in an east-to-west direction across the upland area of the Site toward

the River. However, groundwater flow has been observed from the River into the North Lobe. Groundwater flow direction that fluctuates temporally is not uncommon near the groundwater-surface water interface. However, based on a comparison of the groundwater elevations in the wells farthest from the River (MW-15I through MW-18I) to wells closest to the River's shoreline, over the course of the monitoring period, the overall general direction of groundwater flow at the Site was still east to west.

3.2.1 Dense Non-Aqueous Phase Liquid

DNAPL levels were measured in the five extraction wells (EW-1, EW-2, EW-3, EW-4, and EW-5) on a semiannual basis on April 8 and October 17, 2024. Table 2.3 summarizes the DNAPL elevations.

DNAPL removal from the five extraction wells is restricted to October 15 to April 15, during the boating off-season. Historically, DNAPL was only removed if its elevation was greater than the top of the sump in the bottom of the extraction well. However, per comment No. 6 on the NYSDEC response letter for the 2022 Periodic Review Report (PRR) for Durez NT/Inlet Site, the NYSDEC requested that GSH pump, to the extent practicable, DNAPL from the sumps regardless of the elevation of the DNAPL. GSH pumped dense non-aqueous phase liquid (DNAPL) from the extraction wells (EW-1 through EW-5) during both 2024 semiannual monitoring events regardless of DNAPL volume in the well. The total volume of DNAPL recovered for both monitoring events was 0.84 gallons.

Table 2.4 shows the volume of DNAPL recovered from the Site since the onset of maintenance and monitoring activities in May 1995. A total of 1,138.1 gallons of DNAPL has been recovered from the Site since remediation began in August 1993. The accumulation rate of DNAPL in the extraction wells has slowed over time. Since 2002, 22.1 gallons of DNAPL have been recovered. The highest annual amount of DNAPL recovered since 2002 was 5.3 gallons in 2010. No DNAPL was removed from the extraction wells from 2002 through 2008, from 2015 through 2018, or from 2020 through 2022.

3.2.2 Site and Well Inspections

Site and physical well inspections were completed semiannually on April 8 and October 17, 2024. The completed field inspection forms are included as Appendix D. Evidence of minor animal burrowing was observed beneath the concrete pads at EW-2 and MW-15I during both Site inspections. It is not anticipated that these animal burrows present a concern to the integrity of the wells at this time and therefore no repairs were required. However, per the request of the NYSDEC, the burrowing animal(s) is to be addressed after winter hibernation by a licensed pest removal company.

Results of the semiannual well inspections are presented in Table 2.5. No deficiencies were noted during the semiannual well inspections. Repairs were not required.

3.2.3 Maintenance Activities

No maintenance activities were performed during the monitoring period except for filling in several burrow holes with the soil excavated by the burrowing animal.

4. SUMMARY OF 2024 OPERATION

The remedial systems at the Site are functioning as designed to contain the DNAPL, which allows for DNAPL removal and off-Site disposal, as necessary.

The concentrations observed in MW-20I have remained orders of magnitude lower than those observed prior to the implementation of the ISCO program in 2011/2012 and have since stabilized; however, the concentrations have remained orders of magnitude greater than the NYS GQS. Only slight increases have occurred in MW-20I since 2012 due to rebound however since December 2020 concentrations continue to trend downward. The pre-injection concentrations observed in MW-22I were significantly lower than those observed in nearby well MW-20I. The concentrations of TSCs in MW-22I have remained relatively consistent with only slight increases since 2016, other than recent increased concentrations following implementation of the passive diffusion remedial program (discussed below) that are expected to be short-term.

Overall, groundwater quality to the north and east outside the cutoff wall has stabilized. The 2024 semiannual groundwater quality data for MW-16I, MW-18I, and MW-19I are consistent with historical analytical data. Analytical results for wells MW-16I, MW-18I, and MW-19I were less than the NYS GQS.

The first passive diffusion remedial program was implemented at groundwater monitoring wells MW-16I, MW-20I, and MW-22I from October 2019 through October 2022. Results of the completed program were submitted to the NYSDEC by GSH under a separate cover on January 30, 2023. The NYSDEC approved GSH's recommendation to continue the passive diffusion remediation program in a letter dated April 4, 2023, but requested that the program be assessed on an annual basis rather than after an additional three-year period. The new passive diffusion remedial program was implemented at groundwater monitoring wells MW-20I and MW-22I in April 2023. The summary report for the 2024 activities under this program can be found in Appendix E.

The hydraulic monitoring data show that the overall direction of groundwater flow at the Site is from east to west, across the upland area of the Inlet toward the River, however there are localized groundwater flow patterns where there is a west to east directionality from the River towards the North Lobe.

GSH pumped DNAPL from the extraction wells (EW-1 through EW-5) during both semiannual monitoring events regardless of DNAPL volume in the well. A combined total of 0.84 gallons of DNAPL was recovered combined for both monitoring events. Based on field measurements and observations collected in 2024, no DNAPL was observed in the groundwater monitoring wells located outside the cutoff wall. The monitoring results indicate that the cutoff wall is functioning as designed.

The long-term changes in groundwater quality will continue to be monitored and evaluated. The Inlet monitoring program data for the Site demonstrates that the remedial program continues to meet its design objectives.

Tables

Table 2.1

2024 Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

Compound/Parameter	* Standard	Reporting	MW-16I		MW-18I	
	Value (µg/L)	Limit (µg/L)	4/9/2024	10/21/2024	4/9/2024	10/21/2024
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
Benzene	1	1	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	0.301 J / 0.361 J	1.0 U / 1.0 U	1.0 U
Toluene	5	1	1.14	0.235 J / 0.294 J	1.0 U / 1.0 U	1.0 U
Total Targeted Site Compounds			1.14	0.536 / 0.655	0.00 / 0.00	0.00

Compound/Parameter	* Standard	Reporting	MW-19I		MW-20I	
	Value (µg/L)	Limit (µg/L)	4/9/2024	10/21/2024	4/9/2024	10/21/2024
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	25.0 U	20.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	25.0 U	20.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	25.0 U	20.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	7.90 J	8.20 J
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	105	151
Benzene	1	1	1.0 U	1.0 U	25.8	20.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	2260	2220
Toluene	5	1	0.275 J	1.0 U	25.0 U	20.0 U
Total Targeted Site Compounds			0.28	0.00	2399	2379

Compound/Parameter	* Standard	Reporting	MW-22I	
	Value (µg/L)	Limit (µg/L)	4/9/2024	10/21/2024
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	0.479 J
1,3-Dichlorobenzene	3	1	0.392 J	1.48
1,4-Dichlorobenzene	3	1	3.11	12.1
Benzene	1	1	2.14	19.9
Chlorobenzene	5	1	79.8	284
Toluene	5	1	1.0 U	0.358 J
Total Targeted Site Compounds			85.4	318

Notes:

J - Estimated

U - Not detected at the associated reporting limit

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

2.80 / 3.07 - Results of investigative and duplicate sample

52.3 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Table 2.2

**2024 Water Level Elevations
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site**

	Reference		
Well	Point Elevation		
Number	(ft. AMSL)	04/08/24	10/17/24
MW-15I	569.79	565.78	565.68
MW-16I	573.31	565.38	565.75
MW-17I	574.41	565.60	565.46
MW-18I	573.51	565.33	565.27
MW-19I	572.29	565.10	565.12
MW-20I	572.35	565.00	565.22
MW-21S	572.02	564.94	564.94
MW-22I	572.31	565.11	565.03
EW-1	572.09	564.98	564.90
EW-2	571.89	564.98	565.00
EW-3	572.29	564.92	564.95
EW-4	572.69	564.97	564.57
EW-5	573.06	565.02	564.69
SG ⁽¹⁾	567.66	565.29	565.26
SG ⁽²⁾	567.66		

Notes:

Average elevation of the top of the cut-off wall is 562 feet AMSL

NM -Not measured due to large boat parked on top of well

ft. AMSL - Feet Above Mean Sea Level

SG - Staff Gauge at the River

SG(1) - River measurement at the start of monitoring

SG(2) - River measurement at the end of monitoring

Table 2.3

**2024 DNAPL Levels and Volumes
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site**

	Well	Elevation	Elevation	Elevation of	Height of DNAPL	Elevation of	Height of DNAPL	Elevation of	DNAPL Above	Amount of	Amount of
	Number	of Top	of DNAPL	Top of Sump	Above Top of Sump	Top of Till	Above Top of Till	Bottom of Sump	Bottom of Sump	DNAPL in Well	DNAPL Pumped
		of Pipe	(ft. AMSL)	(ft. AMSL)	(ft.) *	(ft. AMSL)	(ft.)	(ft. AMSL)	(ft.)	(Gallons)	(Gallons)
04/08/24	EW-1	572.09	537.05	538.70	-1.65	540.10	-3.05	537.10	-0.05	-0.07	0.00
	EW-2	571.89	537.58	538.52	-0.94	539.40	-1.82	536.92	0.66	0.99	0.15
	EW-3	572.29	537.12	538.10	-0.98	539.50	-2.38	536.50	0.62	0.93	0.25
	EW-4	572.69	536.50	538.20	-1.70	539.50	-3.00	536.60	-0.10	-0.15	0.02
	EW-5	573.06	537.84	539.20	-1.36	540.00	-2.16	537.60	0.24	0.36	0.02
10/17/24	EW-1	572.09	537.01	538.70	-1.69	540.10	-3.09	537.10	-0.09	-0.14	0.00
	EW-2	571.89	537.37	538.52	-1.15	539.40	-2.03	536.92	0.45	0.68	0.00
	EW-3	572.29	536.91	538.10	-1.19	539.50	-2.59	536.50	0.41	0.61	0.20
	EW-4	572.69	536.10	538.20	-2.10	539.50	-3.40	536.60	-0.50	-0.75	0.00
	EW-5	573.06	537.61	539.20	-1.59	540.00	-2.39	537.60	0.01	0.01	0.20

Notes:

- Dense non-aqueous phase liquid (DNAPL) volume was calculated based on a 1.5-gallon/foot multiplier for a 6-inch diameter pipe

-x.xx - (Negative value) DNAPL level is below the reference point

ft. AMSL - Feet Above Mean Sea Level

NP - Not pumped

NA - Not applicable

NM - Not measured

* - Positive value indicates a requirement to remove DNAPL from well

Table 2.4

Cumulative DNAPL Extracted from Site - From Remediation
August 1993 to Present
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

Period	Cumulative (gallons)	Extraction Wells (gallons)
Remediation ⁽¹⁾	880.0	
Year One, May 1995 - April 1996	959.3	79.3
Year Two, May 1996 - April 1997	1012.5	53.2
Year Three, May 1997 - April 1998	1041.5	29.0
Year Four, May 1998 - April 1999	1075.5	34.0
Year Five, May 1999 - April 2000	1099.5	24.0
Year Six, May 2000 - April 2001	1112.0	12.5
*Year Seven, May - December 2001	1116.0	4.0
Year Eight, January - December 2002	1116.0	0.0
Year Nine, January - December 2003	1116.0	0.0
Year Ten, January - December 2004	1116.0	0.0
Year Eleven, January - December 2005	1116.0	0.0
Year Twelve, January - December 2006	1116.0	0.0
Year Thirteen, January - December 2007	1116.0	0.0
Year Fourteen, January - December 2008	1116.0	0.0
Year Fifteen, January - December 2009	1121.0	5.0
Year Sixteen, January - December 2010	1126.3	5.3
Year Seventeen, January - December 2011	1128.8	2.5
Year Eighteen, January - December 2012	1130.8	2.0
Year Nineteen, January - December 2013	1131.8	1.0
Year Twenty, January - December 2014	1133.4	1.6
Year Twenty-One, January - December 2015	1133.4	0.0
Year Twenty-Two, January - December 2016	1133.4	0.0
Year Twenty-Three, January - December 2017	1133.4	0.0
Year Twenty-Four, January - December 2018	1133.4	0.0
Year Twenty-Five, January - December 2019	1135.1	1.8
Year Twenty-Six, January - December 2020	1135.1	0.0
Year Twenty-Seven, January - December 2021	1135.1	0.0
Year Twenty-Eight, January - December 2022	1135.1	0.0
Year Twenty-Nine, January - December 2023 **	1137.3	2.2
Year Thirty, January - December 2024 **	1138.1	0.8
Total:	1138.1	258.1

Notes:

(1) - Remediation of the Site was completed between August 1993 to April 1995

* - Minor Change 11, annual reporting year January-December

** - DNAPL was removed from all EWs regardless of the volume of DNAPL present per NYSDEC request.

DNAPL - Dense non-aqueous phase liquid

Table 2.5

2024 Well Inspections
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

Date: 04/08/24												
Well Number	Elevation of Top of Pipe	Depth to Water	Installed Depth	Sounded Depth	Depth to NAPL ⁽³⁾	* Depth Below Top of Pipe at which DNAPL Required to be Pumped	DNAPL Removed (gal)	Well Integrity				Comments
								Locked	Capped	Cracked	Obstructed	
MW-15I	569.79	4.01	22.7	22.25	NN	NR	NR	Y	Y	N	N	(1)
MW-16I	573.31	7.93	32.5	31.60	NN	NR	NR	Y	Y	N	N	
MW-17I	574.41	8.81	28.6	29.35	NN	NR	NR	Y	Y	N	N	
MW-18I	573.51	8.18	34.9	34.64	NN	NR	NR	Y	Y	N	N	
MW-19I	572.29	7.19	35.4	35.49	NN	NR	NR	Y	Y	N	N	
MW-20I	572.35	7.35	34.5	33.45	NN	NR	NR	Y	Y	N	N	
MW-21S	572.02	7.08	10.2	7.75	NN	NR	NR	Y	Y	N	N	
MW-22I	572.31	7.20	32.0	31.21	NN	NR	NR	Y	Y	N	N	
EW-1	572.09	7.11	34.5	35.10	35.04	≤ 33.49	0	Y	Y	N	N	
EW-2	571.89	6.91	35.5	34.48	34.31	≤ 33.49	0.15	Y	Y	N	N	
EW-3	572.29	7.37	36.5	35.45	35.17	≤ 34.29	0.25	Y	Y	N	N	
EW-4	572.69	7.72	35.4	36.25	36.19	≤ 34.59	0.02	NA	NA	NA	Y	
EW-5	573.06	8.04	35.4	35.38	35.22	≤ 33.96	0.02	Y	Y	Y	N	
SG-1	567.66	2.37	NA	NM	NM	NR	NR	NA	NA	NA	NA	
SG-1	567.66	NM	NA	NA	NM	NR	NR	NA	NA	NA	NA	

Description of Site: Gravel parking lot, grass embankment
 Site Conditions: Good
 Weather: Sun/Clouds 38°F Winds ESE 0-5 MPH

Date: 10/17/24												
Well Number	Elevation of Top of Pipe	Depth to Water	Installed Depth	Sounded Depth	Depth to NAPL	* Depth Below Top of Pipe at which DNAPL Required to be Pumped	DNAPL Removed (gal)	Well Integrity				Comments
								Locked	Capped	Cracked	Obstructed	
MW-15I	569.79	4.11	22.7	22.24	NN	NR	NR	Y	Y	N	N	(1)
MW-16I	573.31	7.56	32.5	31.61	NN	NR	NR	Y	Y	N	N	
MW-17I	574.41	8.95	28.6	29.33	NN	NR	NR	Y	Y	N	N	(2)
MW-18I	573.51	8.24	34.9	34.64	NN	NR	NR	Y	Y	N	N	
MW-19I	572.29	7.17	35.4	35.49	NN	NR	NR	Y	Y	N	N	
MW-20I	572.35	7.13	34.5	33.45	NN	NR	NR	Y	Y	N	N	
MW-21S	572.02	7.08	10.2	7.75	NN	NR	NR	Y	Y	N	N	
MW-22I	572.31	7.28	32.0	31.22	NN	NR	NR	Y	Y	N	N	
EW-1	572.09	7.19	34.5	35.12	35.08	≤ 33.49	0.00	Y	Y	N	N	
EW-2	571.89	6.89	35.5	34.28	34.52	≤ 33.49	0.00	Y	Y	N	N	(3)
EW-3	572.29	7.34	36.5	35.58	35.38	≤ 34.29	0.20	Y	Y	N	N	
EW-4	572.69	8.12	35.4	36.67	36.59	≤ 34.59	0.00	NA	NA	NA	Y	
EW-5	573.06	8.37	35.4	35.72	35.45	≤ 33.96	0.20	Y	Y	Y	N	(2)
SG-1	567.66	2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SG-1	567.66	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Description of Site: Gravel parking lot, grass embankment
 Site Conditions: Good
 Weather: Cloudy/Foggy 30-58°F Winds W 0-5 MPH

Footnotes:

- (1) Burrowing animal under concrete pad with holes north and south of pad
 (2) Soft Bottom
 (3) Burrowing animal under concrete pad holes outh of pad

Abbreviations:

DNAPL - Dense Non-Aqueous Phase Liquid

NAPL - Non-Aqueous Phase Liquid

* - DNAPL requires pumping/removal when it reaches the top of the extraction well (EW) sumps

- Depths listed are representative of the depth of the top of the sump from the top of the pipe

NA - Not applicable

NM - Not measured

NN - No DNAPL present

NR - Not required to be measured/assessed

gal - Gallon

Figures

A north arrow pointing upwards with the letter 'N' at its base. Below the arrow is a scale bar with alternating black and white segments, marked '0' at the left end and '2,000'' at the right end. The text 'SCALE IN FEET' is centered below the scale bar.

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

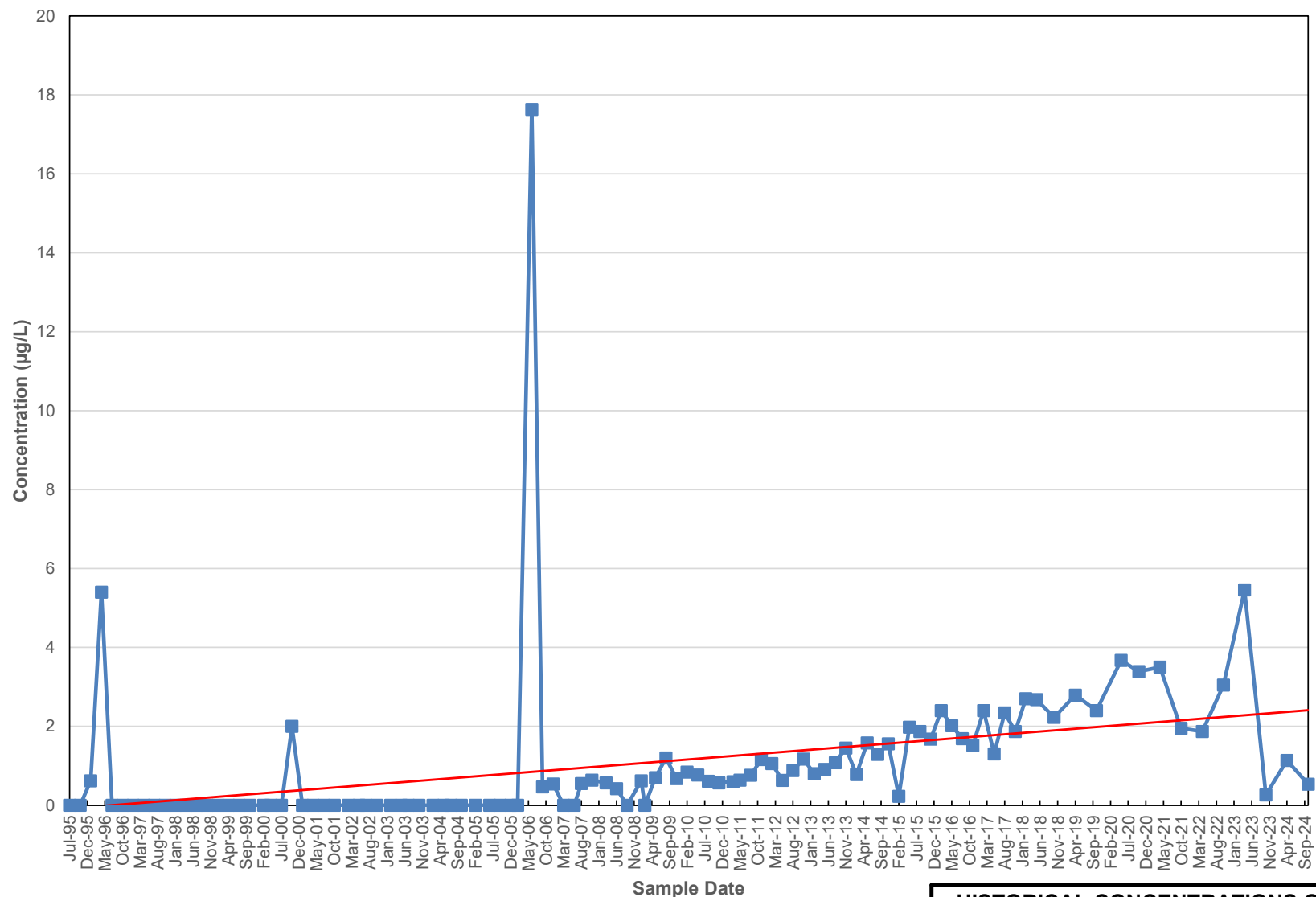
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1.1

JANUARY 2025

\\WATERLOO-01\DATA\PROJECTS\TR1045 GSH WNY O&M\09-CADD\04-DUREZ INLET\03 - 2024 PERIODIC REVIEW REPORT\DRAWINGS\SHEETS\TR1045-002 - MJerome 7/3/24





■ Total Targeted Site Compounds

— Linear Trendline

HISTORICAL CONCENTRATIONS OF TOTAL TARGETED SITE COMPOUNDS MW-16I

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

B&B Engineers & Geologists
of new york, p.c.

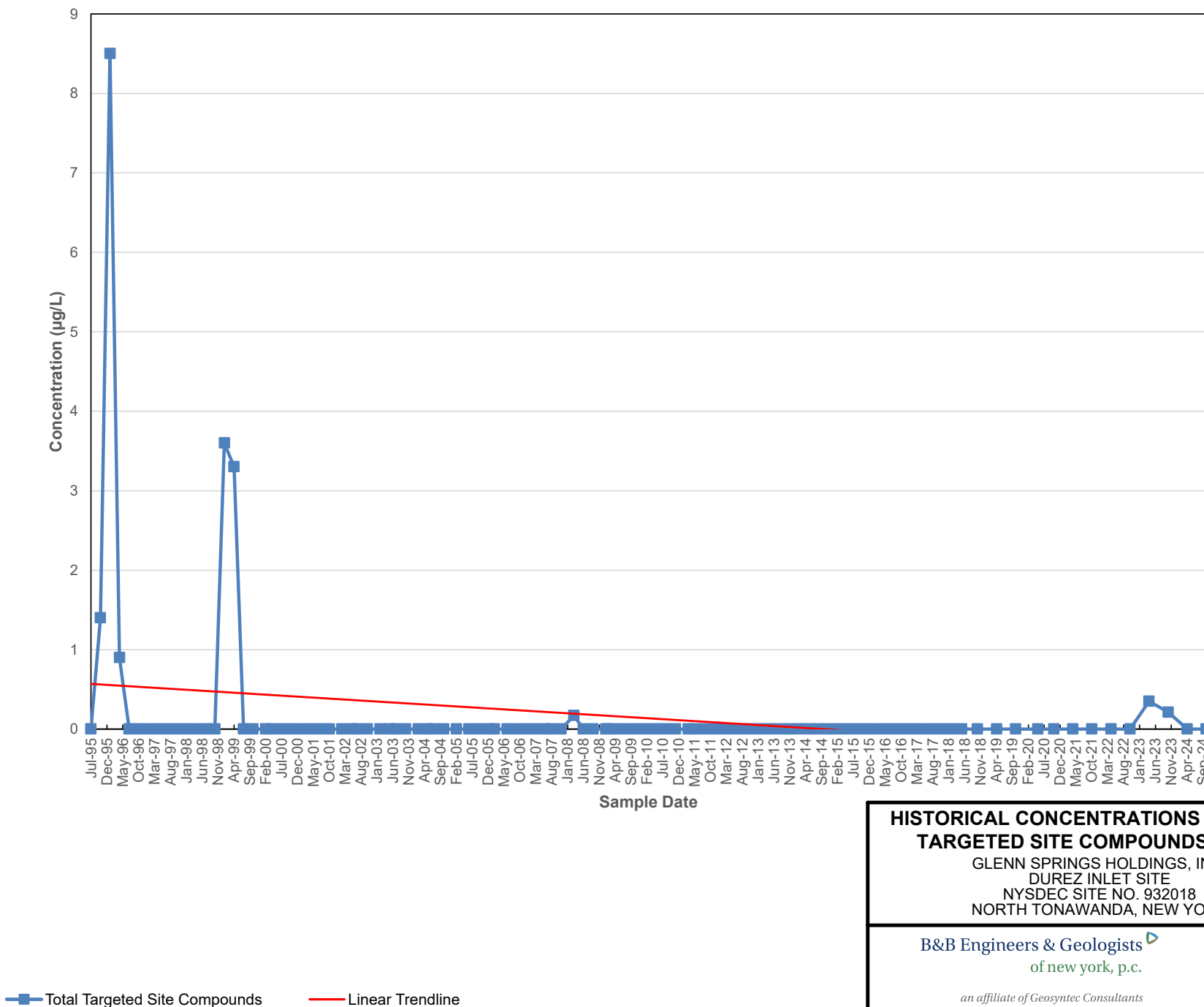
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PROJECT NO: TR1045

JANUARY 2025

FIGURE

2.2



**HISTORICAL CONCENTRATIONS OF TOTAL
TARGETED SITE COMPOUNDS MW-181**

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

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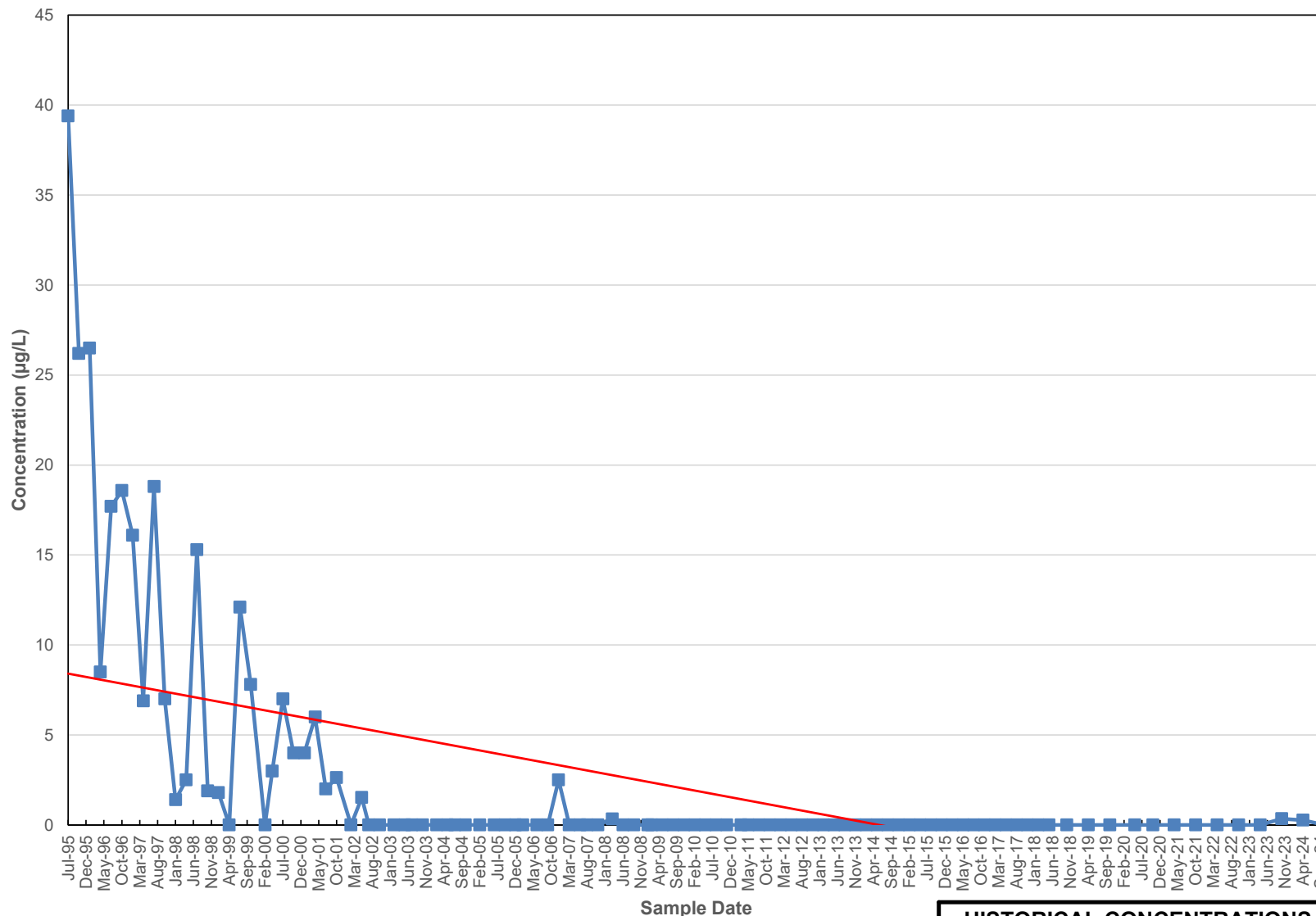
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PROJECT NO: TR1045

JANUARY 2025

FIGURE

2.3



■ Total Targeted Site Compounds — Linear Trendline

**HISTORICAL CONCENTRATIONS OF TOTAL
TARGETED SITE COMPOUNDS MW-19I**

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

B&B Engineers & Geologists
of new york, p.c.

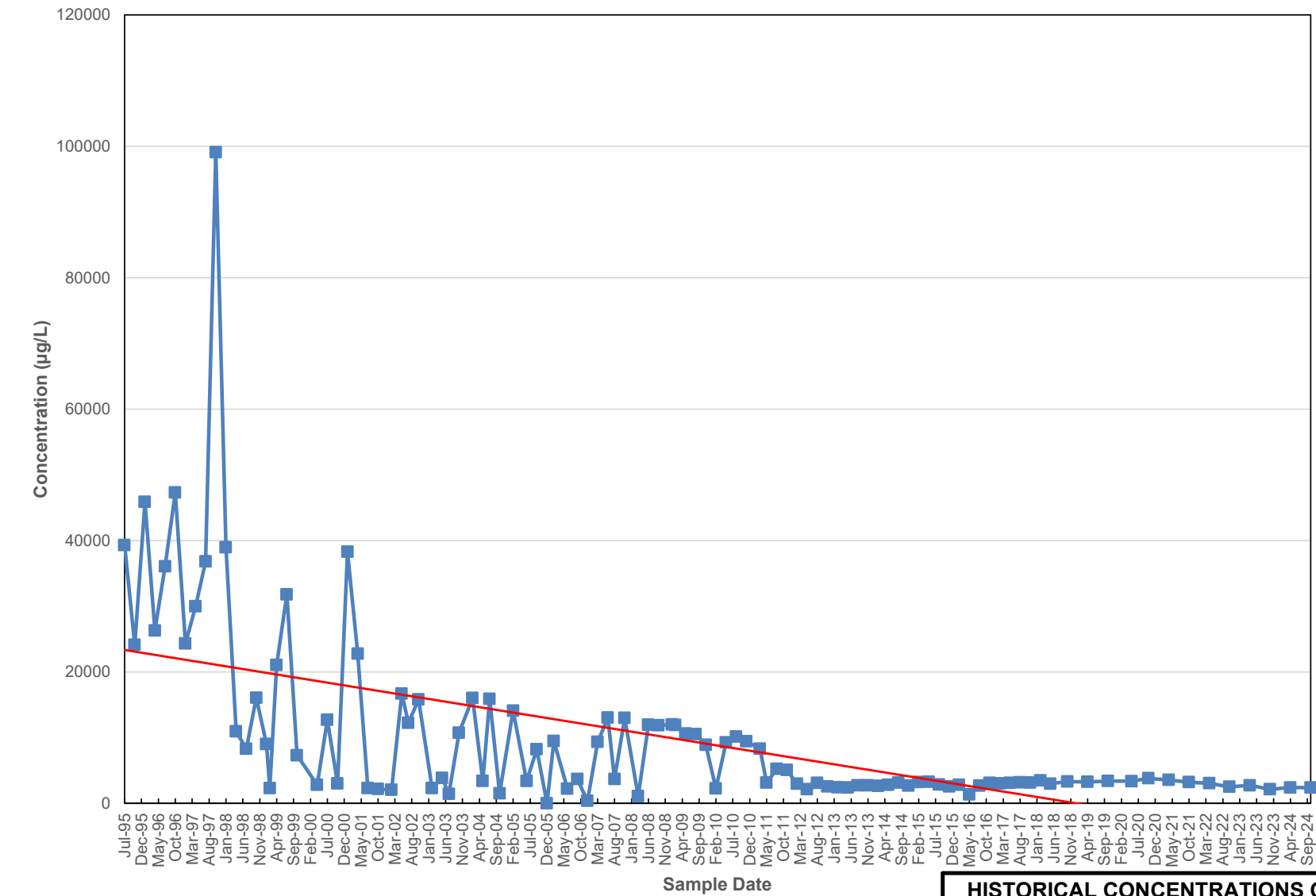
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PROJECT NO: TR1045

JANUARY 2025

FIGURE

2.4



HISTORICAL CONCENTRATIONS OF TOTAL TARGETED SITE COMPOUNDS MW-20I

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

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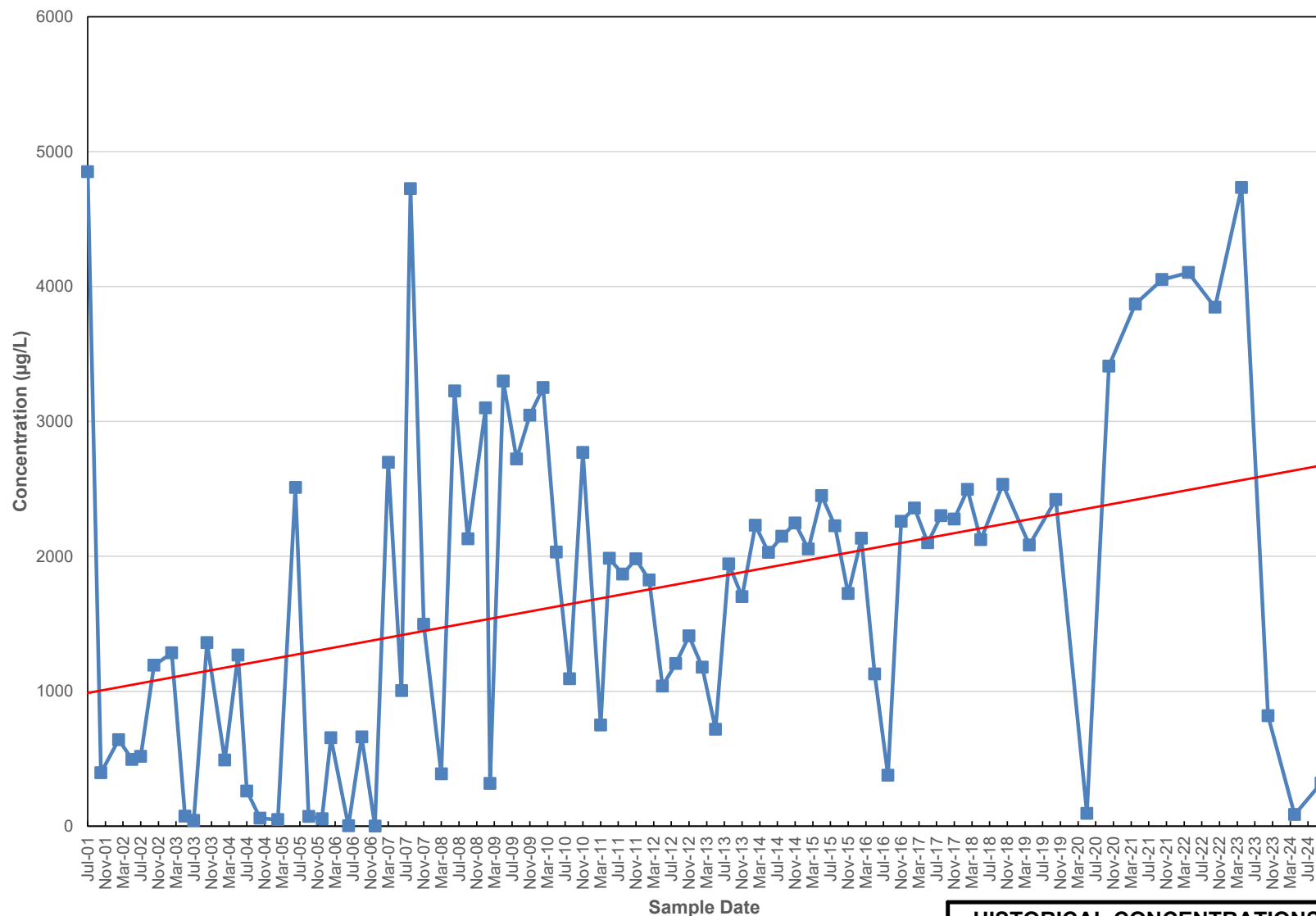
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PROJECT NO: TR1045

JANUARY 2025

FIGURE

2.5



■ Total Targeted Site Compounds — Linear Trendline

HISTORICAL CONCENTRATIONS OF TOTAL TARGETED SITE COMPOUNDS MW-221

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

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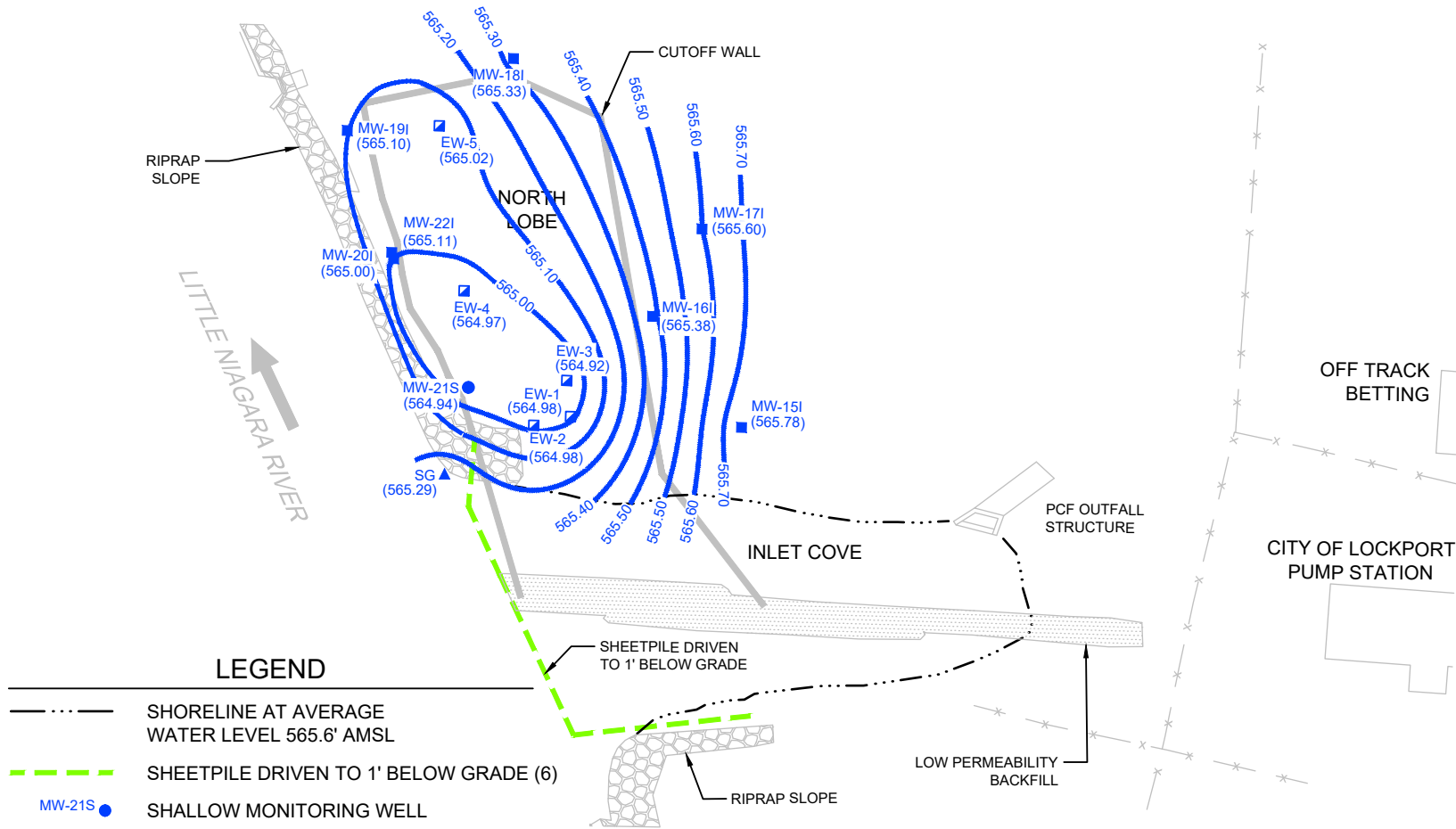
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PROJECT NO: TR1045

JANUARY 2025

FIGURE

2.6

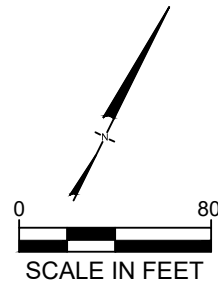


LEGEND

- SHORELINE AT AVERAGE WATER LEVEL 565.6' AMSL
- SHEETPILE DRIVEN TO 1' BELOW GRADE (6)
- MW-21S ● SHALLOW MONITORING WELL
- MW-15I ■ INTERMEDIATE MONITORING WELL
- EW-1 ■ DNAPL EXTRACTION WELL
- SG-1 ▲ STAFF GAGE
- 565.50 — WATER LEVEL CONTOUR (DASHED WHERE INFERRED)
- (565.38) WATER LEVEL ELEVATION (ft AMSL)

NOTES:

- (1) TOP OF CUTOFF WALL WINDOW = 562.00.
- (2) THE RIVER GAUGE IN THE LITTLE NIAGARA RIVER IS REPRESENTATIVE OF THE WATER ELEVATION AT THE END OF THE MONITORING.
- (3) CONTOURS WERE DEVELOPED WITH CONSIDERATION OF THE MARGIN OF ERROR ASSOCIATED WITH MANUAL WATER LEVEL MEASUREMENTS.
- (4) SG - STAFF GAUGE MEASUREMENT PRIOR TO HYDRAULIC MONITORING.
- (5) SHEETPILE DRIVEN TO A MINIMUM OF 1' BELOW GRADE DRIVEN TO APPROXIMATELY 10' INTO THE UPPER TILL.



HYDRAULIC HEAD DISTRIBUTION MAP APRIL 8, 2024

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DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

B&B Engineers & Geologists
of new york, p.c.

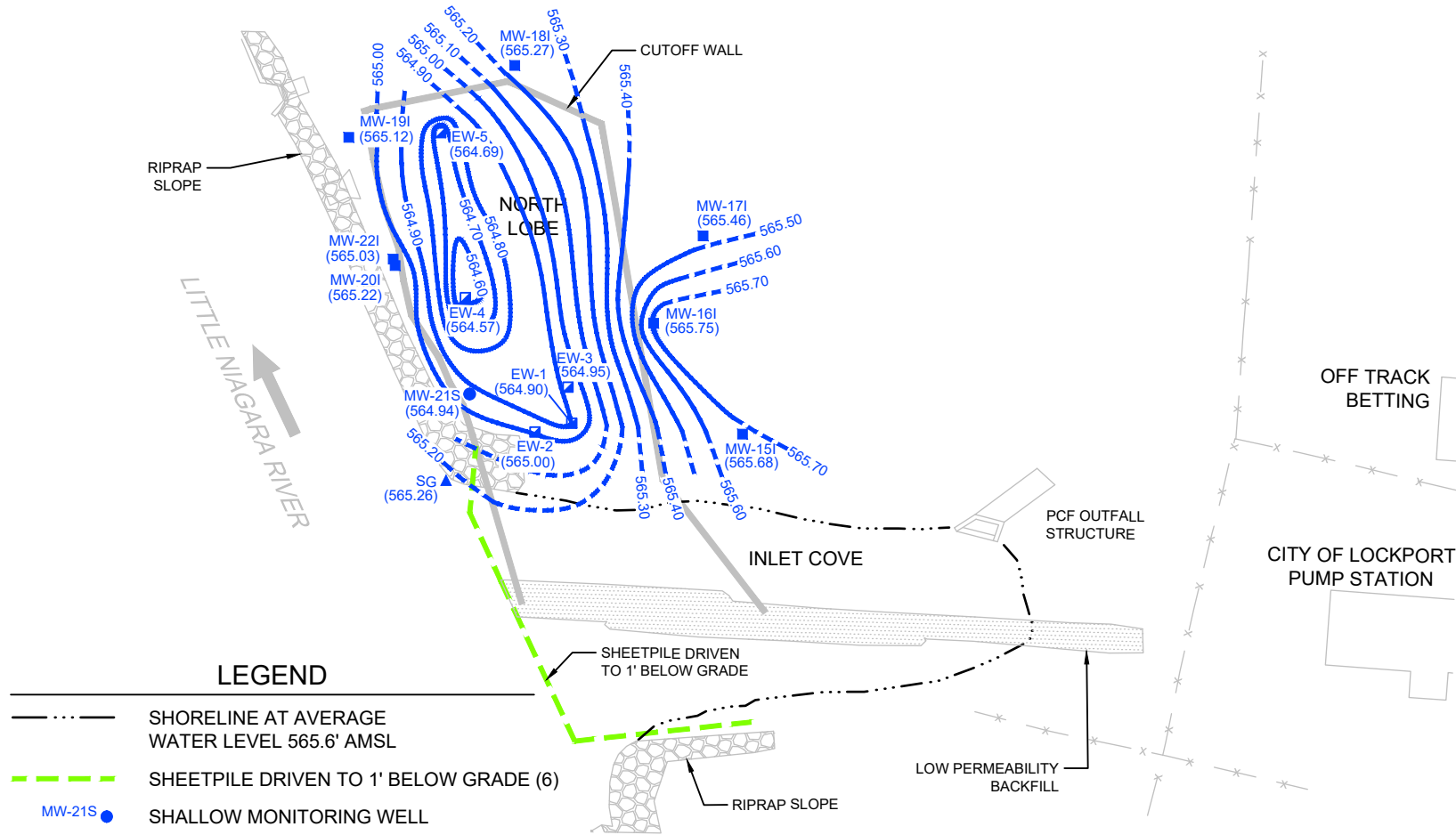
an affiliate of Geosyntec Consultants

FIGURE

2.7

PROJECT NO: TR1045

JANUARY 2025



LEGEND

- ··· — SHORELINE AT AVERAGE WATER LEVEL 565.6' AMSL
- — — SHEETPILE DRIVEN TO 1' BELOW GRADE (6)
- MW-21S ● SHALLOW MONITORING WELL
- MW-15I ■ INTERMEDIATE MONITORING WELL
- EW-1 ▣ DNAPL EXTRACTION WELL
- SG-1 ▲ STAFF GAGE
- 565.20 — WATER LEVEL CONTOUR (DASHED WHERE INFERRED)
- (565.68) WATER LEVEL ELEVATION (ft AMSL)

NOTES:

- (1) TOP OF CUTOFF WALL WINDOW = 562.00.
- (2) THE RIVER GAUGE IN THE LITTLE NIAGARA RIVER IS REPRESENTATIVE OF THE WATER ELEVATION AT THE END OF THE MONITORING.
- (3) CONTOURS WERE DEVELOPED WITH CONSIDERATION OF THE MARGIN OF ERROR ASSOCIATED WITH MANUAL WATER LEVEL MEASUREMENTS.
- (4) SG - STAFF GAUGE MEASUREMENT PRIOR TO HYDRAULIC MONITORING.
- (5) SHEETPILE DRIVEN TO A MINIMUM OF 1' BELOW GRADE DRIVEN TO APPROXIMATELY 10' INTO THE UPPER TILL.

HYDRAULIC HEAD DISTRIBUTION MAP OCTOBER 17, 2024

GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NYSDEC SITE NO. 932018
NORTH TONAWANDA, NEW YORK

B&B Engineers & Geologists
of new york, p.c.
an affiliate of Geosyntec Consultants

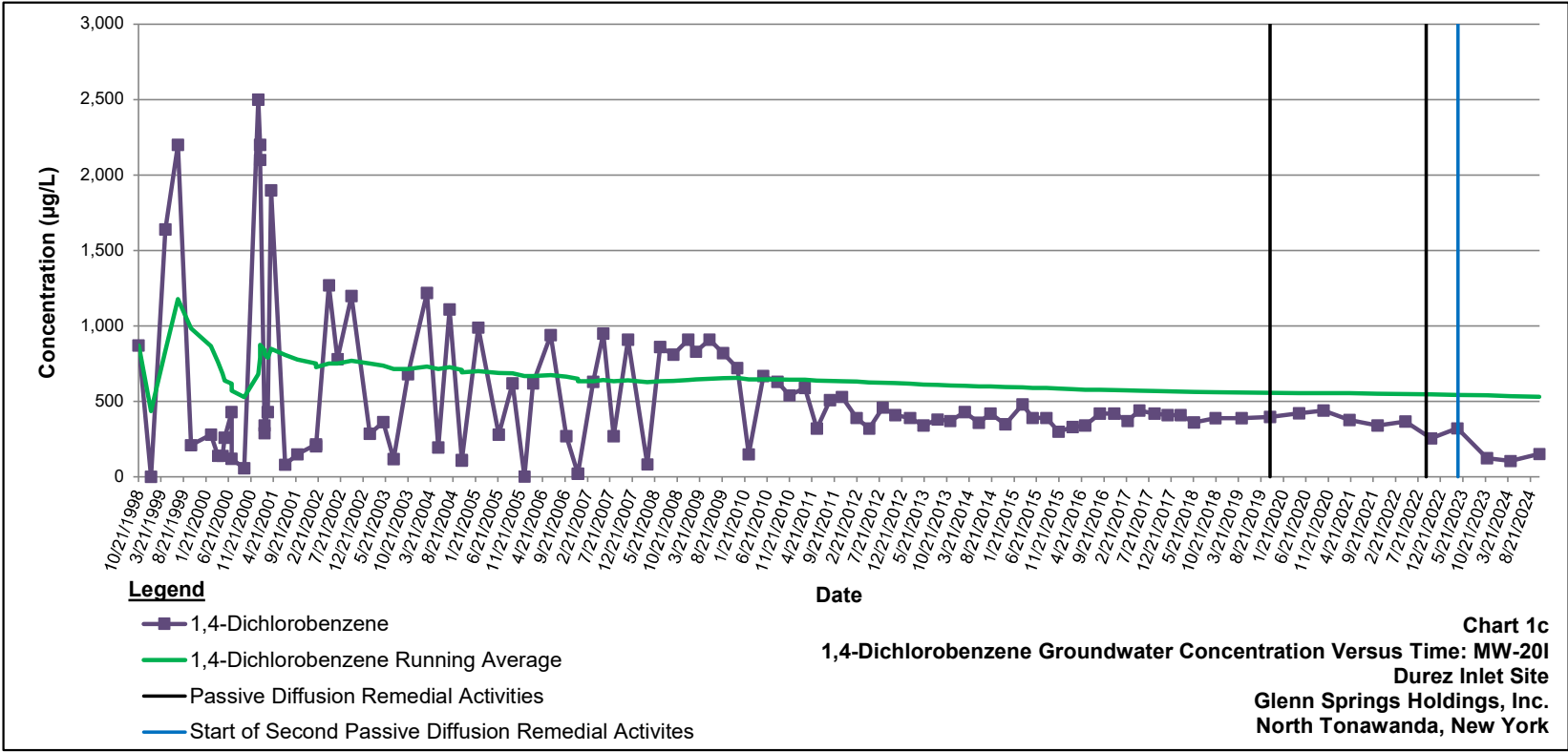
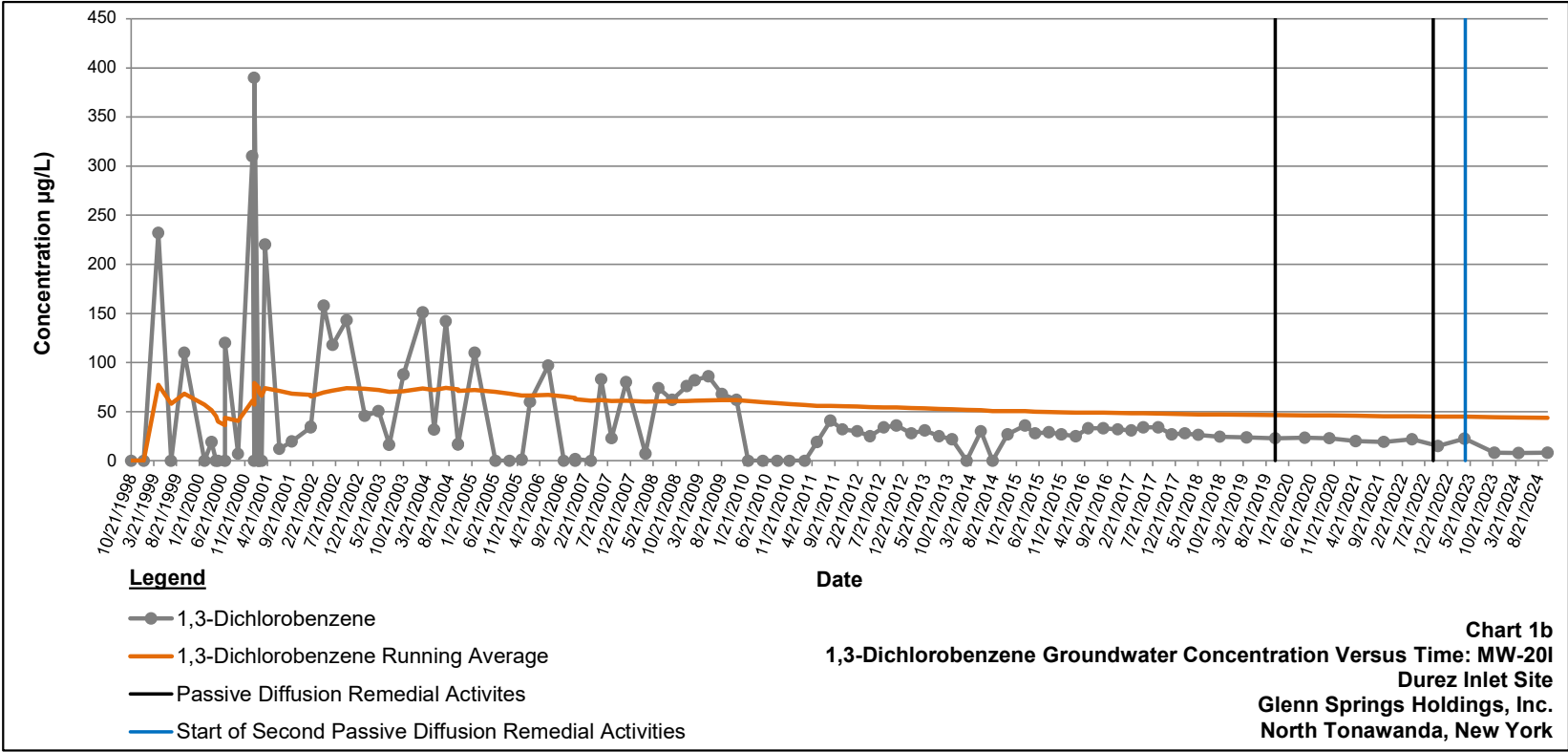
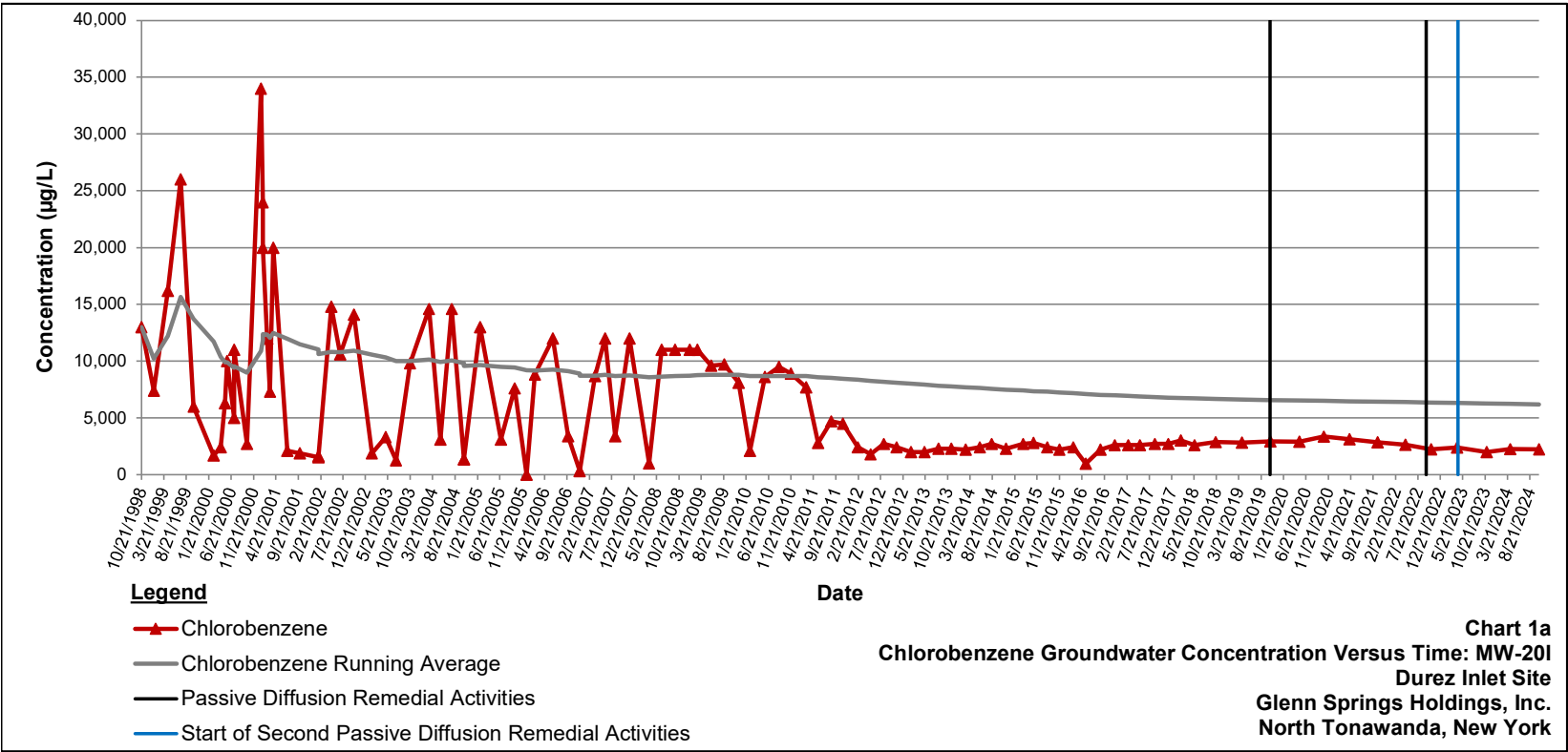
FIGURE
2.8

PROJECT NO: TR1045

JANUARY 2025

Chart Index

Groundwater Concentration Versus Time: MW-201
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site



Note:

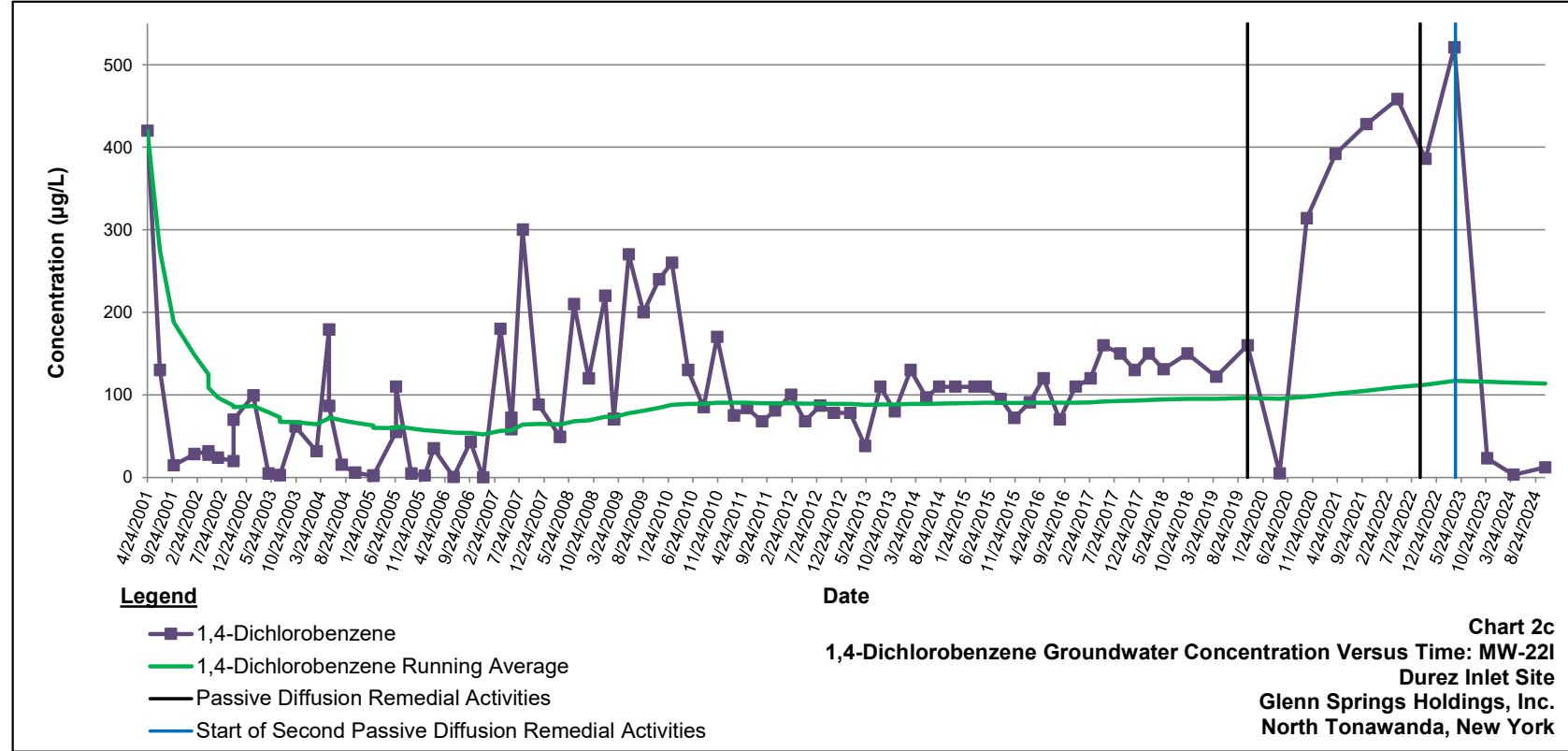
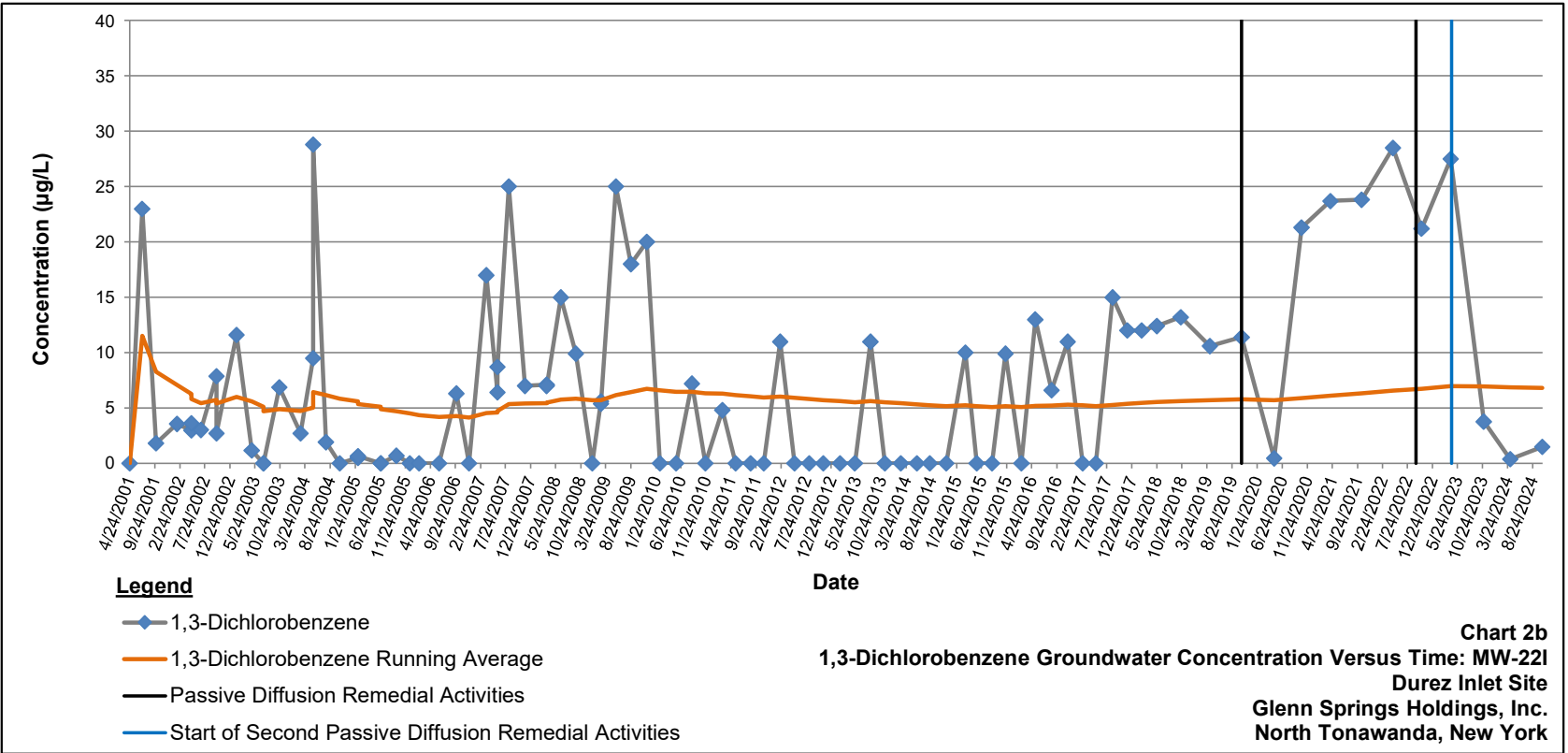
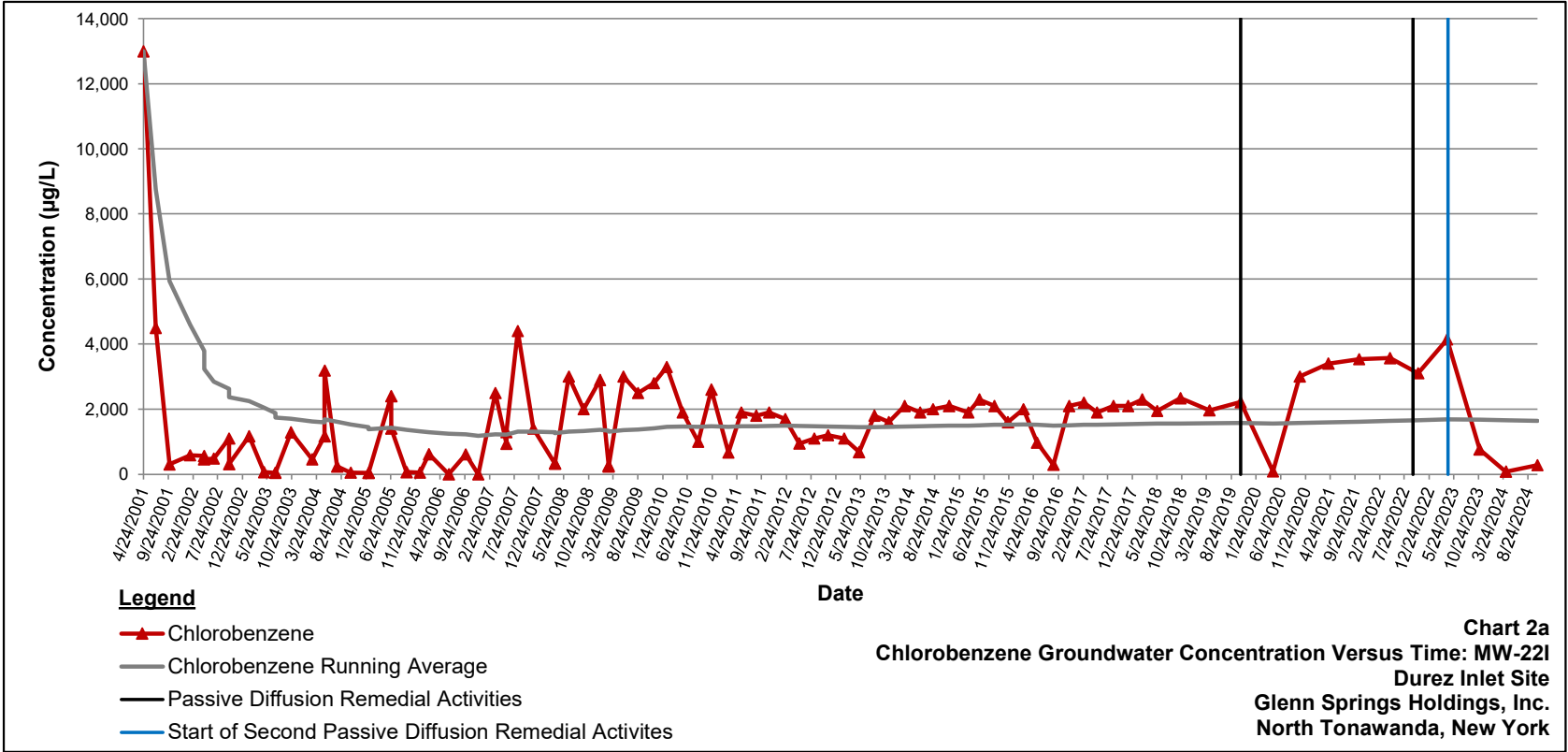
The running average is the equally weighted arithmetic means of the concentrations for the parameter of interest charted. The period is all data beginning October 21, 1998 through the date for each monitoring event. The running average can be represented by the following formula: $Ave = (a_1 + a_2 + \dots + a_n) / n$ where i varies from 1 to n

Ave = arithmetic mean or running average

n = number of values

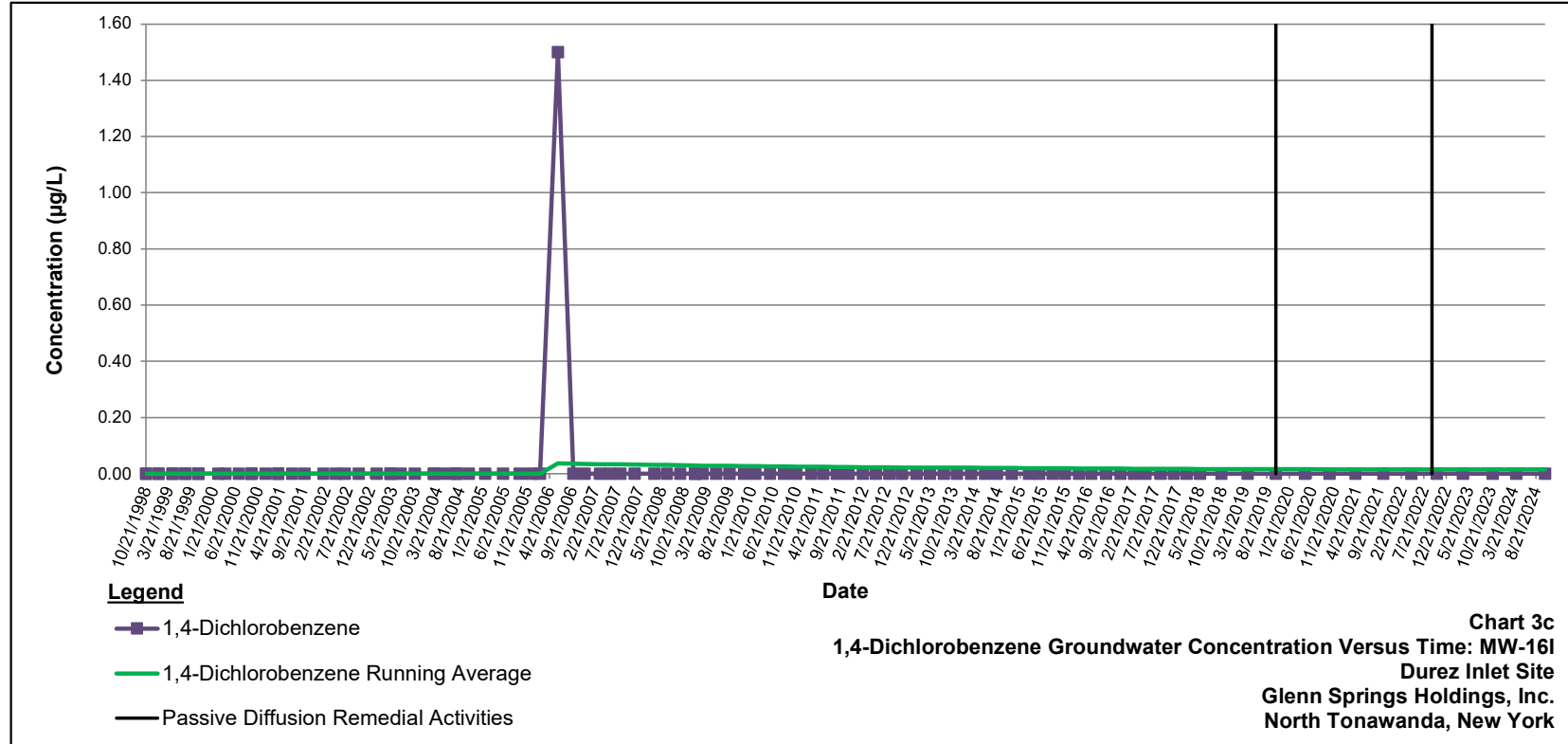
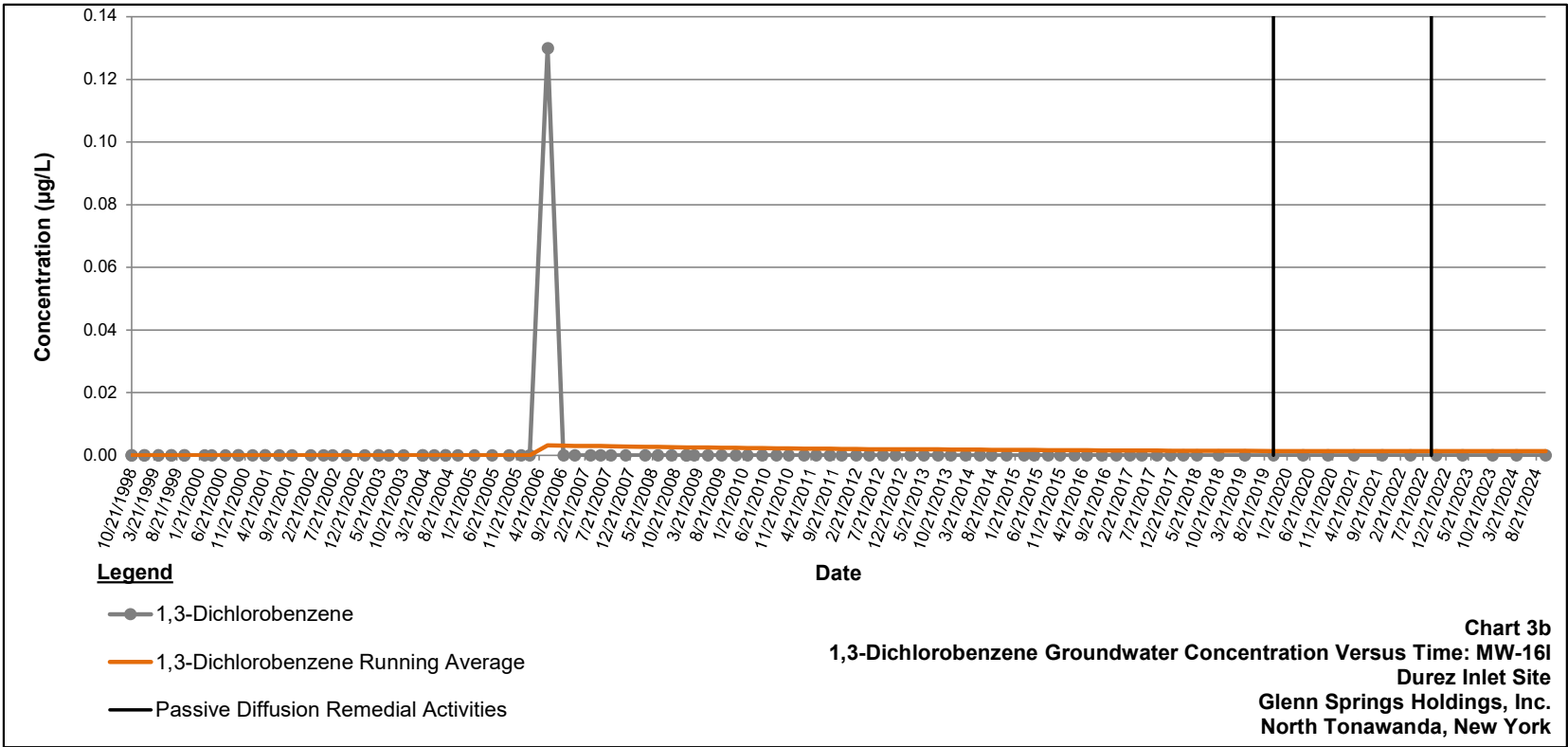
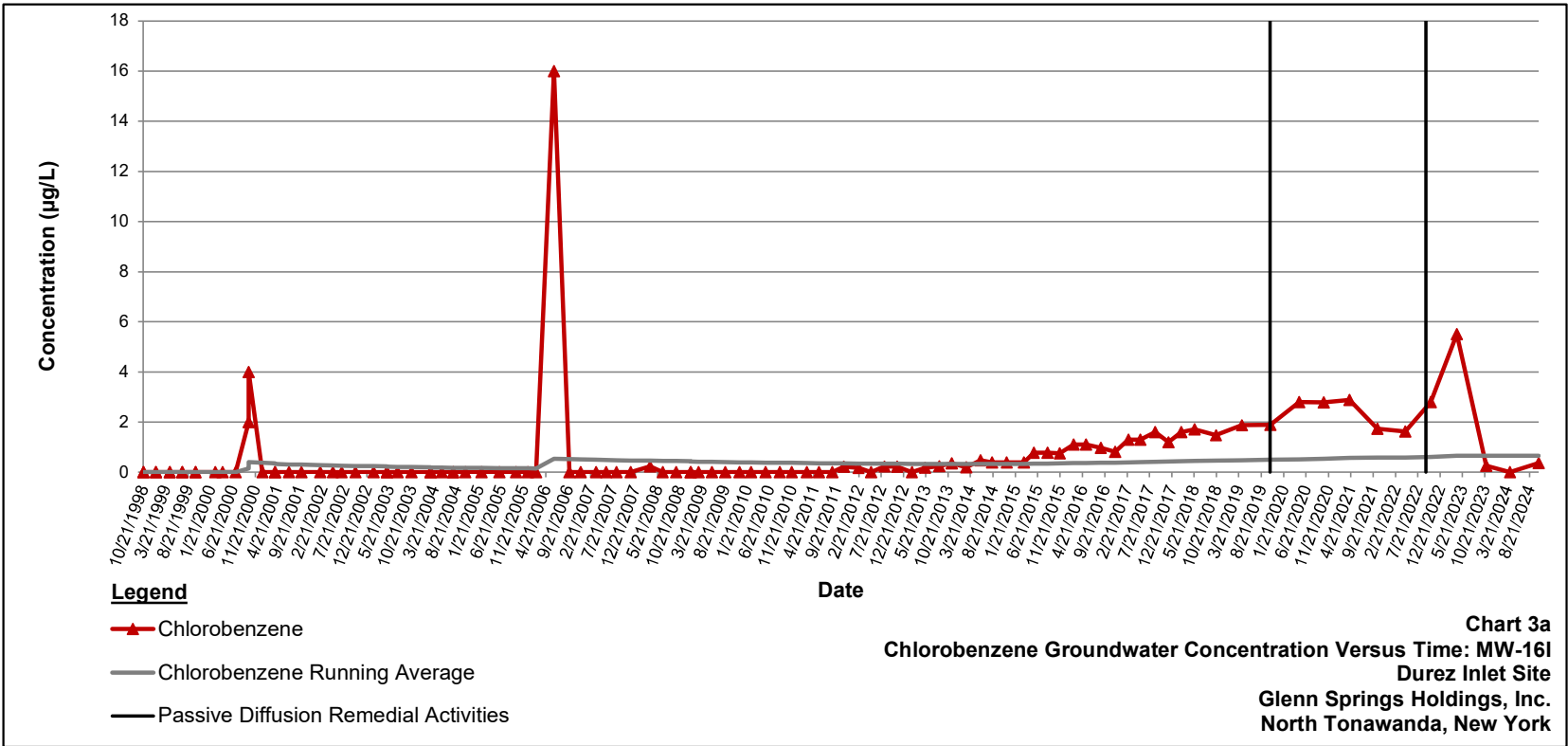
a = data set values

Groundwater Concentration Versus Time: MW-221
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site



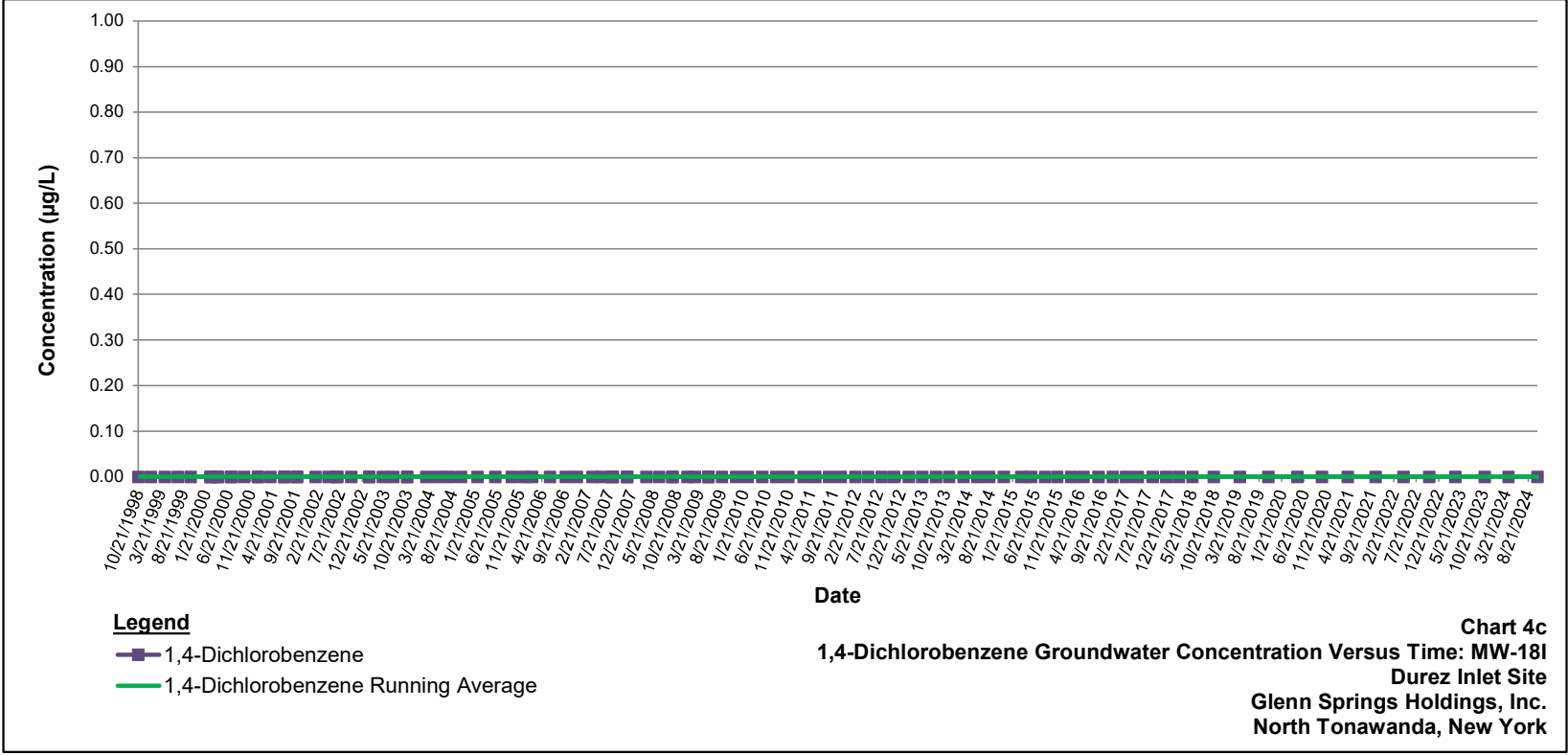
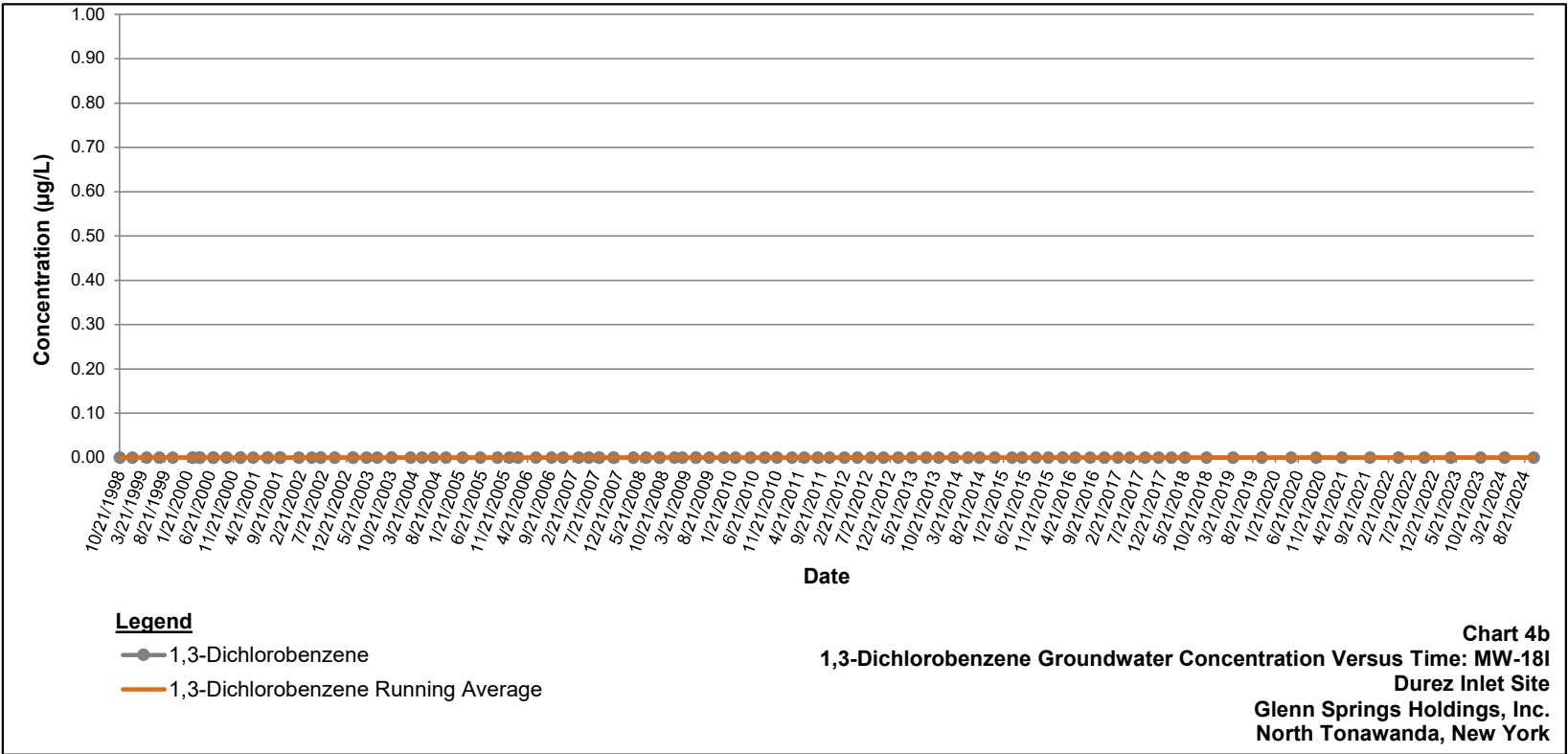
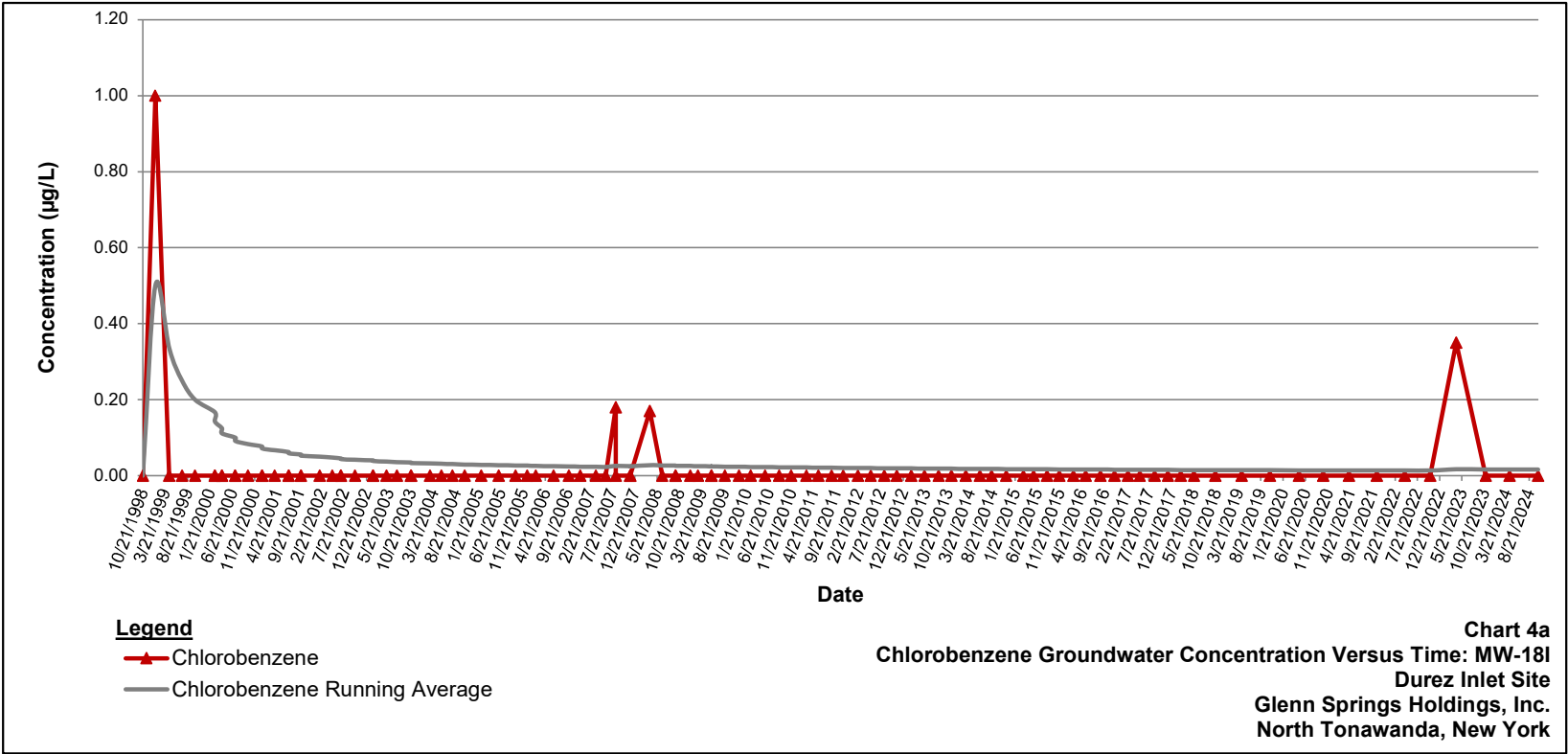
Note:
The running average is the equally weighted arithmetic means of the concentrations for the parameter of interest charted. The period is all data beginning October 21, 1998 through the date for each monitoring event. The running average can be represented by the following formula: Ave= (a1 + a2 + + an) / n
where *i* varies from 1 to *n*
Ave = arithmetic mean or running average
n = number of values
a = data set values

Groundwater Concentration Versus Time: MW-161
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site



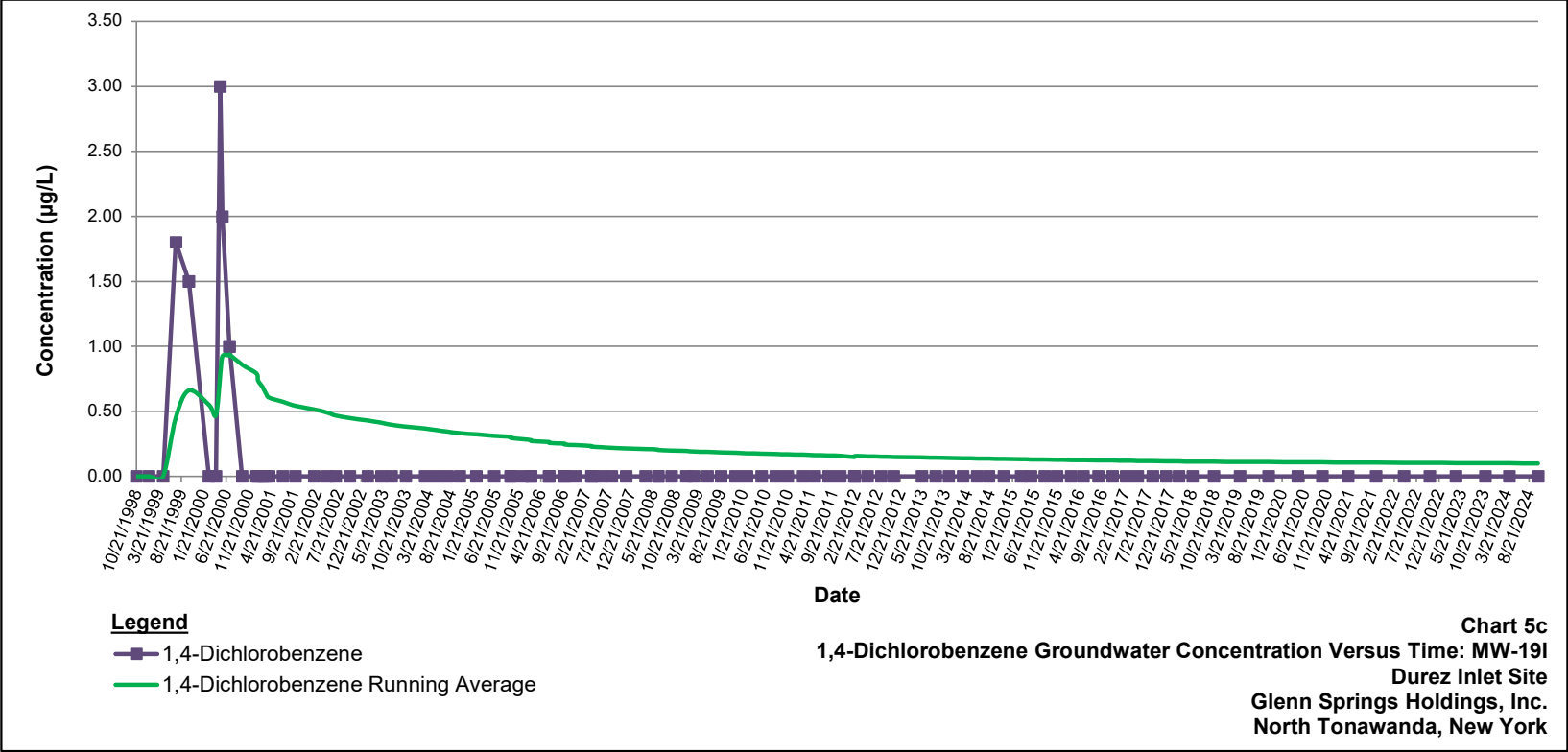
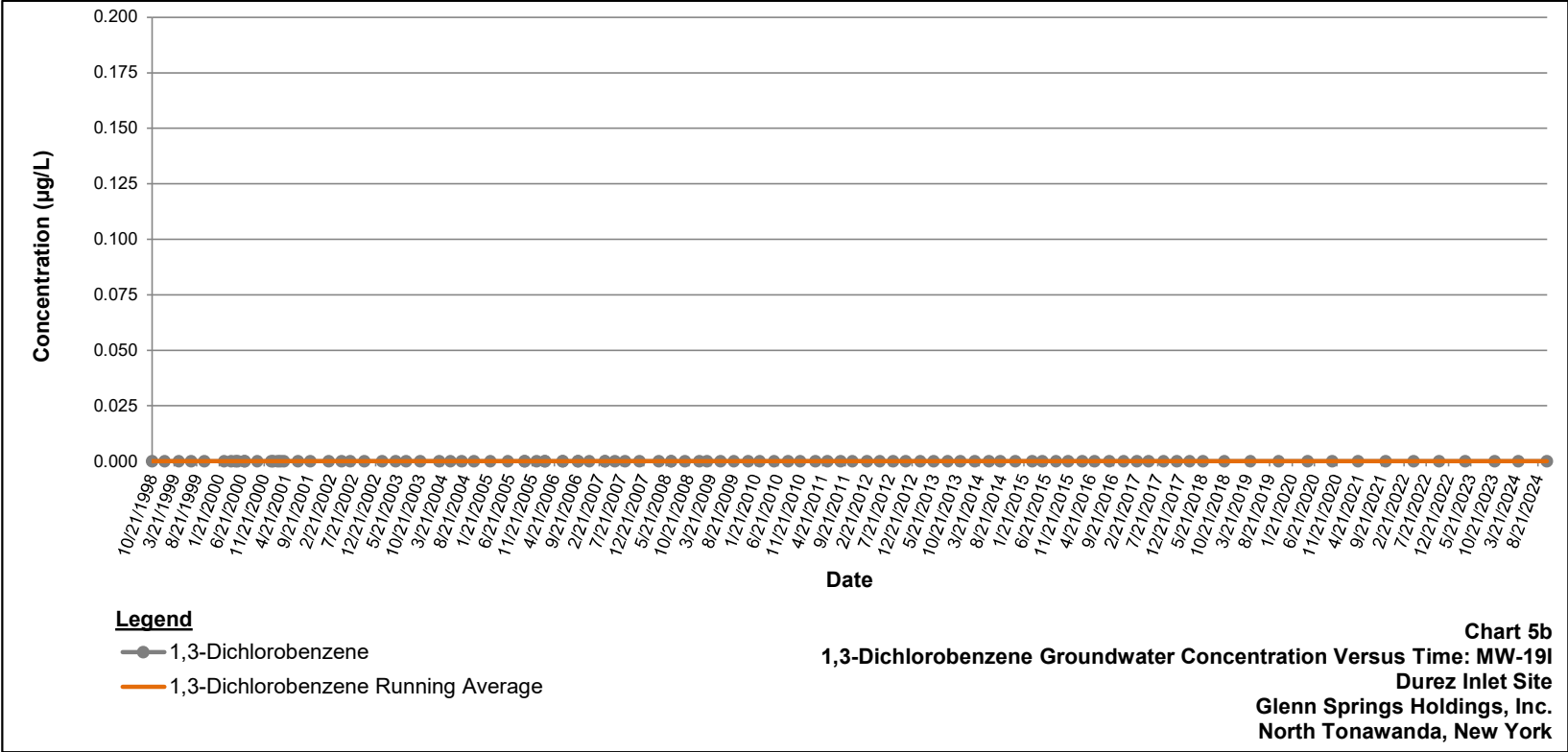
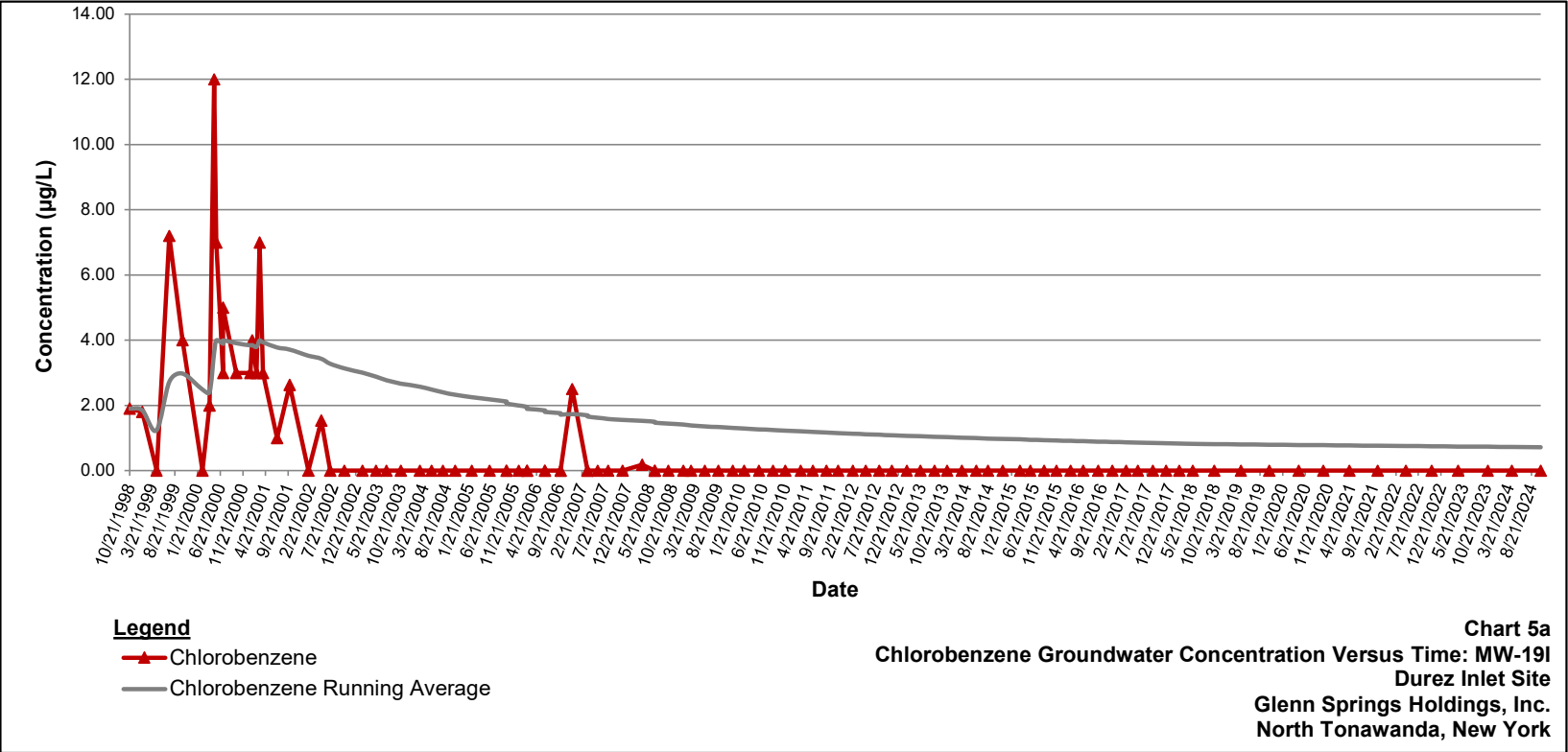
Note:
The running average is the equally weighted arithmetic means of the concentrations for the parameter of interest charted. The period is all data beginning October 21, 1998 through the date for each monitoring event. The running average can be represented by the following formula: Ave= (a1 + a2 + + an) / n
where *i* varies from 1 to *n*
Ave = arithmetic mean or running average
n = number of values
a = data set values

Groundwater Concentration Versus Time: MW-18l
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site



Note:
The running average is the equally weighted arithmetic means of the concentrations for the parameter of interest charted. The period is all data beginning October 21, 1998 through the date for each monitoring event. The running average can be represented by the following formula: Ave= (a1 + a2 + + an) / n
where *i* varies from 1 to *n*
Ave = arithmetic mean or running average
n = number of values
a = data set values

Groundwater Concentration Versus Time: MW-19I
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site



Note:
The running average is the equally weighted arithmetic means of the concentrations for the parameter of interest charted. The period is all data beginning October 21, 1998 through the date for each monitoring event. The running average can be represented by the following formula: Ave= (a1 + a2 + + an) / n
where *i* varies from 1 to *n*
Ave = arithmetic mean or running average
n = number of values
a = data set values

Appendix A

Institutional and Engineering Controls

Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

11/12/2024

Joseph Branch
Project Manager
OCC/Glenn Springs Holdings, Inc.
7601 Old Channel Trail
Montague, MI 49437
Joseph_Branch@oxy.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Durez Div. - Occidental Chemical Corp.

Site No.: 932018

Site Address: Walck Road/River Road
North Tonawanda, NY 14120

Dear Joseph Branch:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 30, 2025**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Benjamin Mcpherson, the Project Manager, at 716-851-7235 or benjamin.mcpherson@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
700 Delaware Ave
Buffalo, NY 14209-2202

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Occidental Chemical Corporation - joseph_branch@oxy.com

ec: w/ enclosures

Benjamin Mcpherson, Project Manager
Andrea Caprio, Hazardous Waste Remediation Supervisor, Region 9

GHD - Margaret Popek - margaret.popek@ghd.com
GHD - John Pentilchuk - John.Pentilchuk@ghd.com
B&B Engineers and Geologists of New York, P.C. - Dennis Hoyt - dhoyt@geosyntec.com

The following parcel owner did not receive an ec:

National Grid - Parcel Owner
Oar Marina, Llc - Parcel Owner

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Site Details

Site No. 932018

Box 1

Site Name Durez Div. - Occidental Chemical Corp.

Site Address: Walck Road/River Road

Zip Code: 14120

City/Town: North Tonawanda

Walck Road = 67.45 acres

County: Niagara

Site Acreage: ~~79.500~~ 72.23

River Road (Inlet) = 4.78 acres

Reporting Period: January 1, 2024 to December 31, 2024

YES NO

1. Is the information above correct?

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?

Industrial

7. Are all ICs in place and functioning as designed?

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date _____

Description of Institutional ControlsParcelOwnerInstitutional Control**181.20-2-9**

Oar Marina, LLC

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans. At the Inlet Site, site management includes groundwater quality monitoring, NAPL removal from extraction wells during the off-boating season, and maintenance of the cover system.

Groundwater Quality Monitoring; Durez Third Stipulation and PCJ and associated minor changes to the PCJ (currently minor change number 10, Rev.2, September 1999).

DNAPL Removal: Inlet Monitoring Plan, GHD 2019.

182.06-3-19

Occidental Chemical Corporation

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans.

182.06-3-20

Occidental Chemical Corporation

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans.

182.06-3-21

Occidental Chemical Corporation

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans.

182.07-1-14

Occidental Chemical Corporation

Monitoring Plan
O&M Plan

Appendix B, Durez Partial Consent Judgement (PCJ) "Monitoring, Operations, and Maintenance Plan" (1989) Subsequent Minor Modification #10, Rev. 2 "Minor Change to Appendix B" Monitoring, Operations, and Maintenance Plan"(September 1999) (Minor Change No. 10) groundwater monitoring.

PCJ 1992; amended by Minor Change No. 5 to allow for semi-annual reporting to the NYSDEC on quarterly hydraulic groundwater data.

Plant Site: OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells, fencing/access points and the panhandle area.

182.32.-1-47

Occidental Chemical Corporation

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans.

p/o 182.07-1-17

National Grid

Monitoring Plan
O&M Plan

Site Operation, Maintenance and Monitoring (OMM) is conducted by the RP in accordance with the February 1989 Record of Decision and approved work plans.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

181.20-2-9

Cover System
Groundwater Containment
Monitoring Wells
Subsurface Barriers

Sheet pile wall, NAPL extraction wells and cover system.

182.06-3-19

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

At the Plant Site, OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells, fencing/access points and the panhandle area.

182.06-3-20

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

At the Plant Site, OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells, fencing/access points and the panhandle area.

182.06-3-21

Parcel

Engineering Control

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

At the Plant Site, OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells, fencing/access points and the panhandle area.

182.07-1-14

Point-of-Entry Water Treatment
Monitoring Wells
Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

Soil cover system with encompassing groundwater interceptor trench and conveyance to an onsite treatment plant.

182.32.-1-47

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

At the Plant Site, OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells, fencing/access points and the panhandle area.

p/o 182.07-1-17

Monitoring Wells
Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

At the Plant Site, OMM includes operation, maintenance and monitoring of the cover system, groundwater collection system, groundwater conveyance system, groundwater treatment system, groundwater monitoring wells and fencing/access points. The Right Of Way (ROW) for National Grid is on site. Reporting is done by the RP; OCC/Glenn Springs Holdings, Inc.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☐ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 932018

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joseph Branch at 7601 Old Channel Trail
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

1-29-2025
Date

NT

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

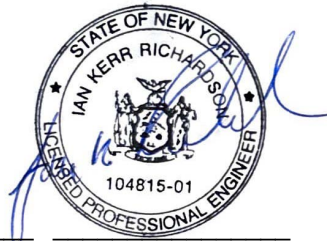
I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ian Richardson, P.E., P.Eng. at B&B Engineers & Geologists of New York P.C.
PO Box 351 Ransomville, NY 14131,
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

29 January 2024

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.

- C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.
- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix B

Data Validation Memoranda



Data Verification Report

May 3, 2024

To	Joseph Branch	Project No.	11223794
Copy to	Dennis Hoyt, Christa Bucior	DVR No.	70
Alicia Ferber	Alicia Ferber/cs/70-NF	Contact No.	720-245-2755
Project Name	Glenn Springs Holdings, Inc. – Durez Inlet	Email	Alicia.ferber@ghd.com
Subject	Analytical Results and Data Verification Semiannual Groundwater Sampling Durez Inlet North Tonawanda, New York April 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Semiannual Groundwater sampling event at the Durez Inlet site during April 2024. Samples were submitted to ALS Environmental (ALS) located in Rochester, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike samples (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 1 and applicable guidance from the document entitled:

1. National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA), 540-R-20-005, November 2020

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and analytical report was used to determine sample holding times. All samples were analyzed within the required holding times with the exception of the field duplicate sample. The field duplicate was collected in an improperly preserved vial and was analyzed outside of the holding time. Based on review of historical data and the comparable results of the parent sample, professional judgement was used to qualify the sample results as estimated (see Table 4).

Most samples were properly preserved with the exception listed above, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per analytical batch.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and one field duplicate sample.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with the duplicate sample must be less than 50 percent for water samples.

All field duplicate results met the above criteria, demonstrating acceptable sampling and analytical precision.

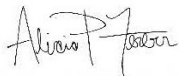
8. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein

Regards,



Alicia Ferber
Digital Intelligence - Data Management Team - Data Validator

Table 1

Sample Collection and Analysis Summary
Semiannual GW Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
North Tonawanda, NY
April 2024

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
						VOC	Comments
R2402902	INLETTRIP-0424	--	Water	04/09/2024	--	X	Trip Blank
	MW-16I-0424	MW-16I	Groundwater	04/09/2024	10:15	X	MS/MSD
	MW-18I-0424	MW-18I	Groundwater	04/09/2024	09:30	X	
	MW-19I-0424	MW-19I	Groundwater	04/09/2024	08:35	X	
	MW-20I-0424	MW-20I	Groundwater	04/09/2024	13:05	X	
	MW-22I-0424	MW-22I	Groundwater	04/09/2024	11:15	X	
	MW-9I-0424	MW-18I	Groundwater	04/09/2024	09:30	X	FD(MW-18I-0424)

Notes:

FD - Field Duplicate Sample of sample in parenthesis
MS/MSD - Matrix Spike/Matrix Spike Duplicate
VOC - Volatile Organic Compounds
-- - Not Applicable

Table 2

**Analytical Results Summary
Semiannual GW Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
North Tonawanda, New York
April 2024**

Location ID:		MW-16I	MW-18I	MW-18I	MW-19I	MW-20I	MW-22I
Sample Name:		MW-16I-0424	MW-18I-0424	MW-9I-0424	MW-19I-0424	MW-20I-0424	MW-22I-0424
Sample Date:		04/09/2024	04/09/2024	04/09/2024	04/09/2024	04/09/2024	04/09/2024
				Duplicate			
Parameters	Unit						
Volatile Organic Compounds							
1,2,3-Trichlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	25.0 U	1.00 U
1,2,4-Trichlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	25.0 U	1.00 U
1,2-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	25.0 U	1.00 U
1,3-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	7.90 J	0.392 J
1,4-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	105	3.11
Benzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	25.8	2.14
Chlorobenzene	µg/L	1.00 U	1.00 U	1.00 UJ	1.00 U	2260	79.8
Toluene	µg/L	1.14	1.00 U	1.00 UJ	0.275 J	25.0 U	1.00 U

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Semiannual GW Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
North Tonawanda, NY
April 2024

Parameter	Method	Matrix	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds	EPA 624.1	Groundwater	14* 7**

Notes:

* - Preserved

** - Unpreserved

Method Reference:

EPA - Environmental Protection Agency

Table 4

Qualified Sample Data Due To Sample Holding Time Violations
Semiannual GW Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
North Tonawanda, NY
April 2024

	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Result	Units
Volatile Organic Compounds	MW-9I-0424	9	7	1,2,3-Trichlorobenzene	1.00 UJ	µg/L
				1,2,4-Trichlorobenzene	1.00 UJ	µg/L
				1,2-Dichlorobenzene	1.00 UJ	µg/L
				1,3-Dichlorobenzene	1.00 UJ	µg/L
				1,4-Dichlorobenzene	1.00 UJ	µg/L
				Benzene	1.00 UJ	µg/L
				Chlorobenzene	1.00 UJ	µg/L
				Toluene	1.00 UJ	µg/L

Notes:

UJ - Not detected; associated reporting limit is estimated



Data Verification Report

November 12, 2024

To	Joseph Branch [joseph_branch@oxy.com]	Project No.	11223794
Copy to	Dennis Hoyt, Christa Bucior	DVR No.	81
Alicia Ferber	Alicia Ferber/cs/81-NF	Contact No.	720-245-2755
Project Name	GSHDM: Durez Inlet Data Mgmt.	Email	Alicia.ferber@ghd.com
Subject	Analytical Results and Data Verification Semiannual Groundwater Sampling Glenn Springs Holdings, Inc., - Durez Inlet North Tonawanda, New York October 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for water samples collected in support of the Semiannual Groundwater Sampling event at the Durez Inlet site during October 2024. Samples were submitted to ALS Environmental (ALS) located in Rochester, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report form, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 1 and applicable guidance from the document entitled:

1. National Functional Guidelines for Organic Superfund Methods Data Review",
United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020

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The sample holding time criterion for the analysis is summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were analyzed within the required holding time.

Most samples were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per analytical batch.

The LCS contained all compounds/analytes of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample, and one field duplicate sample.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. Low levels of 1,4-dichlorobenzene were detected; however, all associated results were either non-detect or significantly greater than the blank contamination and were reported without qualification. All other results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results met the above criteria, demonstrating acceptable sampling and analytical precision.

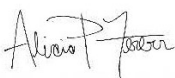
8. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards,



Alicia Ferber
Digital Intelligence - Data Management Team - Data Validator

Table 1

**Sample Collection and Analysis Summary
Semiannual Groundwater Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
Tonawanda, New York
October 2024**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>	
					VOCs	Comments
INLETTRIP-102124	Trip Blank	Water	10/21/2024	--	X	Trip Blank
MW-16I-1024	MW-16I	Water	10/21/2024	10:50	X	
MW-18I-1024	MW-18I	Water	10/21/2024	08:40	X	
MW-19I-1024	MW-19I	Water	10/21/2024	09:40	X	MS/MSD
MW-20I-1024	MW-20I	Water	10/21/2024	12:25	X	
MW-22I-1024	MW-22I	Water	10/21/2024	13:00	X	
MW-9I-1024	MW-16I	Water	10/21/2024	10:50	X	FD(MW-16I-1024)

Notes:

- | | |
|--------|---|
| FD | - Field Duplicate Sample of sample in parenthesis |
| MS/MSD | - Matrix Spike/Matrix Spike Duplicate |
| VOCs | - Volatile Organic Compounds |
| -- | - Not Applicable |

Table 2

**Analytical Results Summary
Semiannual Groundwater Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
North Tonawanda, New York
October 2024**

Location ID:	MW-16I	MW-16I	MW-18I	MW-19I	MW-20I	MW-22I
Sample Name:	MW-16I-1024	MW-9I-1024	MW-18I-1024	MW-19I-1024	MW-20I-1024	MW-22I-1024
Sample Date:	10/21/2024	10/21/2024	10/21/2024	10/21/2024	10/21/2024	10/21/2024
		Duplicate				

Parameters	Unit						
Volatile Organic Compounds							
1,2,3-Trichlorobenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2,4-Trichlorobenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	20.0 U	0.479 J
1,3-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	8.20 J	1.48
1,4-Dichlorobenzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	151	12.1
Benzene	µg/L	1.00 U	1.00 U	1.00 U	1.00 U	20.0 U	19.9
Chlorobenzene	µg/L	0.301 J	0.361 J	1.00 U	1.00 U	2220	284
Toluene	µg/L	0.235 J	0.294 J	1.00 U	1.00 U	20.0 U	0.358 J

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

Table 3

Analytical Methods
Semiannual Groundwater Sampling
Glenn Springs Holdings, Inc. - Durez Inlet
Tonawanda, New York
October 2024

Parameter	Method	Matrix	Holding Time
			Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	EPA 624	Water	14

Method Reference:

EPA "Methods for Chemical Analysis of Water and Waste," EPA-600/4-79-020,
revised March 1983, with subsequent revisions.

Appendix C

Historical Groundwater Chemistry

Monitoring Analytical Results

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-16I																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Jan-98	Apr-98	Jul-98	Oct-98
Benzene	1	1	1.0 U	1.0 U	0.62 J	5.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1 U	1.0 U	1.0 U	1.0 U/1.0 U
Total Targeted Site Compounds			0.0	0.0	0.62	5.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Reported Values													
			Jan-99	Apr-99	Jul-99	Oct-99	Feb-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Feb-02	May-02
Benzene	1	1	1.0 U/2.8	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
Toluene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	2/4	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1 U	1 U	1 U/1 U	1.0 U	2.0 U/2.0 U	1 U	1.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			0.0/2.8	0.0/0.0	0.0/0.0	0.0/0.0	0.0	0.0	0.0	2/4	0.0	0.0/0.0	0.0	0.0	0.0	0.0
			Reported Values													
			Jul-02	Oct-02	Feb-03	May-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04	Oct-04	Feb-05	Jun-05	Sep-05	Dec-05
Benzene	1	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,3-Trichlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Total Targeted Site Compounds			0.0	0.0	0.0	0.0/0.0	0.0	0.0	0.0/0.0	0.0	0.0/0.0	0.0	0.0	0.0	0.0	0.0

Notes:

J - Estimated

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

8.5/9.0 - Results of investigative and duplicate sample

38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-161 - Continued																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Aug-07	Nov-07	Mar-08	Jun-08	Sep-08	Jan-09	Feb-09	May-09
Benzene	1	1	1.0 U	1.0 U	0.47 J	0.54 J	1.0 U	1.0 U	0.55 J	0.64 J	0.34 J	0.42 J	1.0 U	0.62 J/0.67 J	1.0 U	0.70 J
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0.0	17.63	0.47	0.54	0.0	0.0	0.55	0.64	0.57	0.42	0.0	0.62/0.67	0.0	0.7
Reported Values																
			Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10	Mar-11	May-11	Aug-11	Nov-11	Feb-12	May-12	Aug-12	Nov-12
Benzene	1	1	1.2	0.68 J	0.84 J	0.77 J	0.61 J	0.57 J	0.60 J	0.64 J/0.63 J	0.76 J/0.71 J	0.94 J/0.96 J	0.89 J/0.88 J	0.63 J/0.68 J	0.65 J/0.68 J	0.95 J
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	0.22 J/0.22 J	0.17 J/0.21 J	1.0 U/1.0 U	0.23 J/0.23 J	0.22 J
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U
Total Targeted Site Compounds			1.2	0.68	0.84	0.77	0.61	0.57	0.60	0.64/0.63	0.76/0.71	1.16/1.18	1.06/1.09	0.63/0.68	0.88/0.91	1.17
Reported Values																
			Feb-13	May-13	Aug-13	Nov-13	Feb-14	May-14	Aug-14	Nov-14	Feb-15	May-15	Aug-15	Nov-15	Feb-16	May-16
Benzene	1	1	0.80 J	0.73 J/0.67 J	0.84 J	1.1/1.0	0.58 J	1.1	0.90 J/0.88 J	1.1	0.23 J	1.2 / 1.2	0.95 J	0.93 J	1.3	0.92 J
Toluene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	0.18 J/1.0 U	0.24 J	0.35 J/0.42 J	0.20 J	0.48 J	0.39 J/0.42 J	0.46 J	1.0 U	0.78 J / 0.72 J	0.92 J	0.75 J	1.1	1.1
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0.80	0.91/0.67	1.08	1.45/1.42	0.78	1.58	1.29 J/1.30 J	1.56	0.23	1.98 / 1.92	1.87	1.68	2.4	2.0
Reported Values																
			Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Oct-18	Apr-19	Oct-19	May-20	Oct-20	Apr-21
Benzene	1	1	0.72 J	0.70 J	1.1	1.0 U	0.74 J / 0.75 J	0.69 J / 0.67 J	1.1 / 1.1	0.970 J / 0.978 J	0.760 J / 0.730 J	0.910 J	0.510 J / 0.520 J	0.866 J / 0.949 J	0.595 J / 1.0 U	0.622 J / 0.673 J
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
Chlorobenzene	5	1	0.97 J	0.82 J	1.3	1.3	1.6 / 1.6	1.2 / 1.2	1.6 / 1.6	1.71 / 1.76	1.47 / 1.57	1.88	1.89 / 1.76	2.80 / 3.07	2.79 J / 7.04 J	2.88 / 3.01
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.82	1.0 U / 1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U/1.0 U	1.00 U / 1.00 U	1.00 U / 1.00 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
Total Targeted Site Compounds			1.69	1.52	2.40	1.3	2.34 / 2.33	1.87	2.7 / 2.7	2.68 / 2.74	2.23 / 2.30	2.79	2.40 / 2.28	3.67 / 4.02	3.39 / 8.86	3.50 / 3.68

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-16I - Continued									
Reported Values									
			Oct-21	Apr-22	Oct-22	Apr-23	Oct-23	Apr-24	Oct-24
Benzene	1	1	0.222 J / 0.295 J	0.236 J	0.254 J	0.260 J / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
Toluene	5	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.14	0.235 J / 0.294 J
Chlorobenzene	5	1	1.73 / 2.04	1.63	2.8	5.51 / 5.13	0.262 J	1.00 U	0.301 J / 0.361 J
1,2-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
1,3-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
1,4-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U / 1.0 U	1.0 U	1.0 U	1.00 U / 1.00 U	1.00 U	1.00 U	1.00 U / 1.00 U
Total Targeted Site Compounds			1.95 / 2.34	1.87	3.05	5.78 / 5.13	0.262	1.14	0.536 / 0.655

Notes:

- J - Estimated
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- µg/L - Micrograms per liter
- * - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)
- 8.5/9.0 - Results of investigative and duplicate sample
- 38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-181																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Jan-98	Apr-98	Jul-98	Oct-98
Benzene	1	1	1.0 U	1.4	8.5 J	0.9 J/0.8 J	1.0 U/1.0 U	1.0 U/0.38 J	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/0.21 J	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Total Targeted Site Compounds			0.0	1.4	8.5	0.9 J/0.8 J	0.0/0.0	0.0/0.59 J	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0
			Reported Values													
			Jan-99	Apr-99	Jul-99	Oct-99	Feb-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Feb-02	May-02
Benzene	1	1	2.6/2.8	1.9/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
Toluene	5	1	1.0 U/1.0 U	1.4/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
Chlorobenzene	5	1	1.0/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1 U/1 U	1 U/1 U	1 U	1 U/1 U	2 U	1 U/1 U	1.00 U/1.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			3.6/2.8	3.3/0.0	0.0/0.0	0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0	0.0/0.0	0.0	0.0/0.0	0.0/0.0	0.0	0.0
			Reported Values													
			Jul-02	Oct-02	Feb-03	May-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04	Oct-04	Feb-05	Jun-05	Sep-05	Dec-05
Benzene	1	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,3-Trichlorobenzene	5	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1	1.00 U/1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Total Targeted Site Compounds			0.0/0.0	0.0	0.0/0.0	0.0	0.0	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

J - Estimated

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

8.5/9.0 - Results of investigative and duplicate sample

38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-18I - Continued																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Aug-07	Nov-07	Mar-08	Jun-08	Sep-08	Jan-09	Feb-09	May-09
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/0.18 J	1.0 U/1.0 U	0.17 J	1.0 U	1.0 U/1.0 U	1.0 UJ	1.0 U	1.0 U/1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ	1.0 U	1.0 U/1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ	1.0 U	1.0 U/1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ	1.0 U	1.0 U/1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U/1.0 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.0	0.0	0.0	0.0/0.18	0.0	0.17	0.0	0.0/0.0	0.0	0.0	0.0/0.0
			Reported Values													
			Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10	Mar-11	May-11	Aug-11	Nov-11	Feb-12	May-12	Aug-12	Nov-12
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.0	0.0	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Reported Values													
			Feb-13	May-13	Aug-13	Nov-13	Feb-14	May-14	Aug-14	Nov-14	Feb-15	May-15	Aug-15	Nov-15	Feb-16	May-16
Benzene	1	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
Toluene	5	1	1.0 U/0.20 J	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
Chlorobenzene	5	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,2-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,3-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,4-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U
Total Targeted Site Compounds			0/0.20	0.0	0.0/0.0	0.0	0/0	0/0	0	0	0	0	0/0	0/0	0.0	0.0
			Reported Values													
			Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Oct-18	Apr-19	Oct-19	May-20	Oct-20	Apr-21
Benzene	1	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0/0	0/0	0/0	0/0	0	0	0	0	0	0	0	0.0	0.0	0.0

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-18I - Continued									
Reported Values									
			Oct-21	Apr-22	Oct-22	Apr-23	Oct-23	Apr-24	Oct-24
Benzene	1	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
Toluene	5	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 0.212 J	1.00 U / 1.00 UJ	1.00 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U / 1.0 U	0.350 J	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U / 1.0 U	1.00 U	1.00 U / 1.00 U	1.00 U / 1.00 UJ	1.00 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.4	0.00 / 0.212	0.00 / 0.00	0.00

Notes:

- J - Estimated
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- µg/L - Micrograms per liter
- * - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)
- 8.5/9.0 - Results of investigative and duplicate sample
- 38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-19I																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Jan-98	Apr-98	Jul-98	Oct-98
Benzene	1	1	6.2	7.2	9.1 J	0.9 J	0.24 J	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	25	14	13	3.8	13	13	12	5.0	14.0	5.2	1.4	1.5	11	1.9
1,2-Dichlorobenzene	3	1	5.8	3.3	3	2.6	3.1	3.2	2.8	1.9	3.4	1.8	1.0 U	1.0	3.1	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	2.4	1.7	1.4	1.2	1.4	1.5	1.3	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.2	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			39.4	26.2	26.5	8.5	17.7	18.58 J	16.1	6.9	18.8	7.0	1.4	2.5	15.3	1.9
			Reported Values													
			Jan-99	Apr-99	Jul-99	Oct-99	Feb-00	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Feb-02	May-02
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	5	1	1.8	1.0 U	7.2	4.0	1.0 U	2	3	3	3	3	1	2.63	1.00 U	1.53
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	3.1	2.3	1.0 U	1 U	3	1	1	3	1	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	1 U	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.8	1.5	1.0 U	1 U	1	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	2 U	1 U	1.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			1.8	0.0	12.1	7.8	0.0	3	7	4	4	6	2	2.63	0.0	1.53
			Reported Values													
			Jul-02	Oct-02	Feb-03	May-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04	Oct-04	Feb-05	Jun-05	Sep-05	Dec-05
Benzene	1	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
Toluene	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
Chlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
1,2,3-Trichlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 UJ
Total Targeted Site Compounds			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0/0.0	0.0

Notes:

J - Estimated

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

8.5/9.0 - Results of investigative and duplicate sample

38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-19I - Continued																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Aug-07	Nov-07	Mar-08	Jun-08	Sep-08	Jan-09	Feb-09	May-09
Benzene	1	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	2.5	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	0.18 J	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	0.16 J	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0.0/0.0	0.0/0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0
			Reported Values													
			Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10	Mar-11	May-11	Aug-11	Nov-11	Feb-12	May-12	Aug-12	Nov-12
Benzene	1	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Toluene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 UJ	1.0 U/1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U/1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.0/0.0	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0	0/0	0/0	0/0
			Reported Values													
			Feb-13	May-13	Aug-13	Nov-13	Feb-14	May-14	Aug-14	Nov-14	Feb-15	May-15	Aug-15	Nov-15	Feb-16	May-16
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U/1.0 U	1.0 U / 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.0	0	0	0	0/0	0/0	0	0.0	0/0	0/0	0.0
			Reported Values													
			Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Oct-18	Apr-19	Oct-19	May-20	Oct-20	Apr-21
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Targeted Site Compounds			0.0	0/0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

			MW-19I - Continued						
			Reported Values						
			Oct-21	Apr-22	Oct-22	Apr-23	Oct-23	Apr-24	Oct-24
Benzene	1	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	5	1	1.0 U	1.0 U	1.0 U	1.00 U	0.349 J	1.00 U	1.00 U
Chlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	3	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	1.0 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			0.0	0.0	0.0	0.0	0.3	0.00	0.00

Notes:

- J - Estimated
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- µg/L - Micrograms per liter
- * - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)
- 8.5/9.0 - Results of investigative and duplicate sample
- 38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-201																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Jan-98	Apr-98	Jul-98	Oct-98
Benzene	1	1	7700	3300	8300	4600	5500	6100	4300	4000	4800	3100	3200	1900	1000	2200
Toluene	5	1	1000 U	1000 U	500 U	100 U	500 U	2000 U	2000 U	2000 U	2000 U	2000 U	50 U	200 U	200 U	400 U
Chlorobenzene	5	1	28000	18000	32000	19000	27000	37000	20000	26000	32000	96000	32000	8100	6600	13000
1,2-Dichlorobenzene	3	1	2000	1400	2700	1300	1600	1,900 J	2000 U	2000 U	2000 U	2000 U	1100	310	200	400 U
1,3-Dichlorobenzene	3	1	1000 U	1000 U	370 J	210	260 J	2000 U	2000 U	2000 U	2000 U	2000 U	360	200 U	200 U	400 U
1,4-Dichlorobenzene	3	1	1600	1400	2500	1200	1700	2300	2000 U	2000 U	2000 U	2000 U	2300	630	500	870
1,2,3-Trichlorobenzene	5	1	1000 U	1000 U	500 U	100 U	500 U	2000 U	2000 U	2000 U	2000 U	2000 U	50 U	200 U	200 U	400 U
1,2,4-Trichlorobenzene	5	1	1000 U	1000 U	500 U	100 U	500 U	2000 U	2000 U	2000 U	2000 U	2000 U	50 U	200 U	200 U	400 U
Total Targeted Site Compounds			39300	24100	45870	26310	36060	47300	24300	30000	36800	99100	38960	10940	8300	16070
Reported Values																
			Jan-99	Apr-99	Jul-99	Oct-99	Feb-99	Apr-00	Jul-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Feb-02	May-02
Benzene	1	1	1600	2660	3600	890	310	220	1100	230	1400	660	90	118	142/135	391
Toluene	5	1	400 U	50 U	1000 U	50 U	100 U	1 U	1	5 U	13 U	100 U	2 U	1.00 U	1.00 U/1.00 U	1.61 J
Chlorobenzene	5	1	7400	16200	26000	6000	1700	2400	11000	2700	34000	20000	2100	1880	1630/1540	14800
1,2-Dichlorobenzene	3	1	400 U	329	1000 U	100	100 U	18	54	9	58	100 U	8	12.0	20.2/20.4	83.0 J
1,3-Dichlorobenzene	3	1	400 U	232	1000 U	110	100 U	19	120	7	310	220	12	19.7	34.6/34.1	158
1,4-Dichlorobenzene	3	1	400 U	1640	2200	210	280	140	430	56	2500	1900	80	150	215/203	1270
1,2,3-Trichlorobenzene	5	1	400 U	50 U	1000 U	50 U	100 U	1 U	1 U	5 U	13 U	100 U	2 U	1.00 U	1.00 U/1.00 U	1.0 U
1,2,4-Trichlorobenzene	5	1	400 U	50 U	1000 U	50 U	100 U	1 U	1 U	5 U	13 U	100 U	2 U	1.00 U	1.87/2.03	1.0 U
Total Targeted Site Compounds			9000	21061	31800	7310	2290	2797	12705	3002	38268	22780	2290	2180	2044/1935	16703.61
Reported Values																
			Jul-02	Oct-02	Feb-03	May-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04	Oct-04	Feb-05	Jun-05	Sep-05	Dec-05
Benzene	1	1	664	347	74.5	89.4	18.5	164	41.5	44.8	34.5 J	8.92/9.40	500 U	250 U	500 U	1.0 UJ
Toluene	5	1	1.00 U	100 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U/1.00U	500 U	250 U	500 U	1.0 UJ
Chlorobenzene	5	1	10600	14100	1880	3310	1270	9810	14600	3100	14600	1370/1330	13000	3100	7600	9.5 J
1,2-Dichlorobenzene	3	1	66	100 U	23.5	27.0	7.47	1.00 U	1.00 U	14.8	1.00 U	6.08/ 6.16	500 U	250 U	500 U	0.26 J
1,3-Dichlorobenzene	3	1	118	143	45.7	50.4	16.3	87.7	151	31.7	142 J	16.8/16.7	110 J	250 U	500 U	0.91 J
1,4-Dichlorobenzene	3	1	779	1200	285	363	119	680	1220	194	1110	112/107	990	280	620	1.7 J
1,2,3-Trichlorobenzene	5	1	1.00 U	100 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U/1.00U	500 U	250 U	500 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1	1.00 U	100 U	1.75	1.72	1.00 U	3.24	1.00 U	1.70	1.00 U	1.00 U/1.08	500 U	250 U	500 U	1.0 UJ
Total Targeted Site Compounds			12227.3	15790	2310.45	3841.5	1431	10745	16013	3387	15886.5	1513/1469	14100	3380	8220	12.4

Notes:

J - Estimated

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

8.5/9.0 - Results of investigative and duplicate sample

38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-201 - Continued																
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Aug-07	Nov-07	Mar-08	Jun-08	Sep-08	Jan-09	Feb-09	May-09
Benzene	1	1	500 U	500 U	250 U	15 U/20 U	500 U	170 U	50 U	330 U	12 U	250 U	250 UJ	200 U	11	11 J
Toluene	5	1	500 U	500 U	250 U	15 U/20 U	500 U	170 U	50 U	330 U	12 U	250 U	250 UJ	200 U	1.0 U	1.0 U
Chlorobenzene	5	1	8800	12000	3400	340 /320	8700	12000	3400	12000	1000	11000	11000 J	11000	11000	9600
1,2-Dichlorobenzene	3	1	500 U	500 U	250 U	15 U/20 U	500 U	170 U	50 U	330 U	12 U	250 UJ	250 UJ	200 U	5	1.0 U
1,3-Dichlorobenzene	3	1	60 J	97 J	250 U	1.7 J/20 U	500 U	83	23 J	80 J	7.4 J	74 J	62 J	76 J	82	86 J
1,4-Dichlorobenzene	3	1	620	940	270	20 /20	630	950	270	910	83	860 J	810 J	910	830	910
1,2,3-Trichlorobenzene	5	1	500 U	500 U	250 U	15 U/20 U	500 U	170 U	50 U	330 U	12 U	250 U	250 U	200 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1	500 U	500 U	250 U	15 U/20 U	500 U	170 U	50 U	330 U	12 U	250 U	250 U	200 U	1.0 U	1.0 U
Total Targeted Site Compounds			9480	2237	3670	361.7/340	9330	13033	3693	12990	1090	11934	11872	11986	11928	10607
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10	Mar-11	May-11	Aug-11	Nov-11	Feb-12	May-12	Aug-12	Nov-12
Benzene	1	1	15 J/14 J	10 J	200 U	500 U	500 U	500 U	500 U/400 U	120 U	250 U/200 U	250 U	200 U/200 U	80 U	100 U/130 U	100 U/16 J
Toluene	5	1	1.0 U/1.0 U	1.0 U	200 U	500 U	500 U	500 U	500 U/400 U	120 U	250 U/250 U	250 U	200 U/200 U	80 U	100 U/130 U	100 U/100 U
Chlorobenzene	5	1	9600/9700	8100	2100	8600	9500	8900	7700/8100	2800	4700/4400	4500	2400/3300	1800	2600/2700	2100/2400
1,2-Dichlorobenzene	3	1	5.2 J/5.9 J	5.4 J	200 U	500 U	500 U	500 U	500 U/400 U	120 U	250 U/200 U	250 U	200 U/200 U	80 U	100 U/130 U	100 U/100 U
1,3-Dichlorobenzene	3	1	68 J/68 J	62 J	200 U	500 U	500 U	500 U	500 U/400 U	19 J	29 J/41 J	32 J	30 J/334 J	25 J	36 J/34 J	36 J/25 J
1,4-Dichlorobenzene	3	1	820/840	720	150 J	670	630	540	590/670	320	510/470	530	540/390	320	460/460	410/410
1,2,3-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U	200 U	500 U	500 U	500 U	500 U/400 U	120 U	250 U/200 U	250 U	200 U/200 U	80 U	100 U/130 U	100 U/100 U
1,2,4-Trichlorobenzene	5	1	1.0 U/1.0 U	1.0 U	200 U	500 U	500 U	500 U	500 U/400 U	120 U	250 U/200 U	250 U	200 U/200 U	80 U	100 U/130 U	100 U/100 U
Total Targeted Site Compounds			10508/10628	8897	2250	9270	10130	9440	8,290/8,770	3139	5239/4911	5062	2970/3724	2145	3096/3194	2546/2851
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-13	May-13	Aug-13	Nov-13	Feb-14	May-14	Aug-14	Nov-14	Feb-15	May-15	Aug-15	Nov-15	Feb-16	May-16
Benzene	1	1	130 U	130 U	21 J	17 J	200 U	27 J	26 J	25 J	26 J	37 J	23 J	35	32 J	8.1
Toluene	5	1	130 U	130 U	100 U	100 U	200 U	200 U	200 U	200 U	100 U	200 U	200 U	0.20 J	100 U	5.0 U
Chlorobenzene	5	1	2000	2000	2300	2300	2200	2400	2700	2300	2700	2800	2400	2200	2400	960
1,2-Dichlorobenzene	3	1	130 U	130 U	100 U	100 U	200 U	200 U	200 U	200 U	100 U	200 U	200 U	4.8	100 U	5.1
1,3-Dichlorobenzene	3	1	28 J	31 J	25 J	22 J	200 U	30 J	200 U	27 J	36 J	28 J	29 J	27	25 J	33
1,4-Dichlorobenzene	3	1	390	340	380	370	430	360	420	350	480	390	390	300	330	340
1,2,3-Trichlorobenzene	5	1	130 U	130 U	100 U	100 U	200 U	200 U	200 U	200 U	100 U	200 U	200 U	1.0 U	100 U	5.0 U
1,2,4-Trichlorobenzene	5	1	130 U	130 U	100 U	100 U	200 U	200 U	200 U	200 U	100 U	200 U	200 U	1.0 U	100 U	5.0 U
Total Targeted Site Compounds			2418	2371	2726	2709	2630	2817	3146	2702	3242	3255	2842	2567	2787.0	1346.0
Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Oct-18	Apr-19	Oct-19	May-20	Oct-20	Apr-21
Benzene	1	1	29	29	25	23	25	19 J	20	16.3 J	15.0 J	12.8 J	12.8 J	17.4	17.8 J	20.2 J
Toluene	5	1	10 U	20 U	20 U	20 U	25 U	25 U	20 U	20.0 U	20.0 U	20.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Chlorobenzene	5	1	2200	2600	2600	2600	2700	2700	3000	2590	2870	2830	2940	2910	3340	3130
1,2-Dichlorobenzene	3	1	4.8 J	20 U	20 U	20 U	25 U	25 U	20 U	20.0 U	20.0 U	20.0 U	25.0 U	25.0 U	25.0 U	25.0 U
1,3-Dichlorobenzene	3	1	33	32	31	34	34	27	28	26.5	24.4	23.6	22.8 J	23.5 J	22.9 J	19.9 J
1,4-Dichlorobenzene	3	1	420	420	370	440	420	410	410	362	388	388	398	421	441	376
1,2,3-Trichlorobenzene	5	1	10 U	20 U	20 U	20 U	25 U	25 U	20 U	20.0 U	20.0 U	20.0 U	25.0 U	25.0 U	25.0 U	25.0 U
1,2,4-Trichlorobenzene	5	1	10 U	20 U	20 U	20 U	25 U	25 U	20 U	20.0 U	20.0 U	20.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Total Targeted Site Compounds			2687	3081	3026	3097	3179	3156	3458	2995	3297	3254	3374	3372	3822	3546

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

			MW-201 - Continued						
			Reported Values						
			Oct-21	Apr-22	Oct-22	Apr-23	Oct-23	Apr-24	Oct-24
Benzene	1	1	18.3 J	15.6 J / 14.9 J	12.1 J	12.0 J	15.1 J	25.8	20.0 U
Toluene	5	1	25.0 U	25.0 U / 25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U
Chlorobenzene	5	1	2850	2650 / 2340	2230	2380	1990	2260	2220
1,2-Dichlorobenzene	3	1	25.0 U	25.0 U / 25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U
1,3-Dichlorobenzene	3	1	19.2 J	22.0 J / 21.7 J	14.9 J	22.5 J	8.18 J	7.90 J	8.20 J
1,4-Dichlorobenzene	3	1	341	367 / 295	254	322	123	105	151
1,2,3-Trichlorobenzene	5	1	25.0 U	25.0 U / 25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U
1,2,4-Trichlorobenzene	5	1	25.0 U	25.0 U / 25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U
Total Targeted Site Compounds			3229	3055 / 2672	2511	2737	2136	2398.7	2379.2

Notes:

- J - Estimated
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- µg/L - Micrograms per liter
- * - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)
- 8.5/9.0 - Results of investigative and duplicate sample
- 38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-221

Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Jul-01	Oct-01	Feb-02	May-02	Jul-02	Oct-02	Feb-03	May-03	Jul-03	Oct-03	Feb-04	May-04	Jul-04	Oct-04
Benzene	1	1	150	66.9	24.3	5.11/5.76	4.55	14.1/16.0	3.3	1.00 U	1.00 U/1.00 U	1.86	1.00 U	1.80 J/4.89 J	1.00 U	1.00 U
Toluene	5	1	1 U	1.00 U	1.00 U	1.00 U/1.00U	1.00 U	2.50 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U
Chlorobenzene	5	1	4500	308	583	459/566	485	1100 J/315 J	1170	68.4	40.3 /47.5	1290 J	455	1170 J /3190 J	243	53.2
1,2-Dichlorobenzene	3	1	47	3.00	1.58	1.00 U/1.00U	1.00 U	2.50 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	3	1	23	1.81	3.56	2.98/3.62	3.01	7.86 J/2.71 J	11.6	1.15	1.00 U/1.00 U	6.88	2.72	9.49 J/28.8 J	1.91	1.00 U
1,4-Dichlorobenzene	3	1	130	14.7	28.2	27.2/31.6	23.8	69.7 J/19.8 J	99.3	4.41	2.48 /2.73	61.7 J	31.6	86.4 J /179 J	15.4	5.78
1,2,3-Trichlorobenzene	5	1	1 U	1.00 U	1.00 U	1.00 U/1.00U	1.00 U	2.50 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	1 U	1.00 U	1.00 U	1.00 U/1.00U	1.00 U	2.50 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U	1.00 U/1.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			4,850	394	641	494.29/606.98	516	1192/353.51	1,284	73.96	42.78/50.23	1,360	489	1268/3403	260	58.98

Reported Values																
			Feb-05	Jun-05	Sep-05	Dec-05	Feb-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Aug-07	Nov-07	Mar-08	Jun-08
Benzene	1	1	2.0 U/2.0 U	200 U/50 U	5.0 U	4.0 U	50 U	1.0 U	0.92 J	1.0 U	120 U	20 U/20 U	50 U	25 U	5.0 U/5.0 U	50 U
Toluene	5	1	2.0 U/2.0 U	201 U/50 U	5.0 U	4.0 U	50 U	1.0 U	1.0 U	1.0 U	120 U	20 U/20 U	50 U	25 U	5.0 U/5.0 U	50 U
Chlorobenzene	5	1	46/41	2400 J/1400 J	66	52	620	1.4	610	0.78 J	2500	940/1,300	4400	1400	330/330	3000
1,2-Dichlorobenzene	3	1	2.0 U/2.0 U	200 U/50 U	5.0 U	4.0 U	50 U	1.0 U	0.83 J	1.0 U	120 U	20 U/20 U	50 U	25 U	1.1 J/0.71 J	50 U
1,3-Dichlorobenzene	3	1	0.51 J/0.65 J	200 U/50 U	0.70 J	4.0 U	50 U	1.0 U	6.3	1.0 U	17 J	6.4/8.7	25 J	7.0 J	7.1/7.0	15 J
1,4-Dichlorobenzene	3	1	1.9 J/2.1	110 J/55 J	4.5 J	2.3 J	35 J	0.39 J	43 J	1.0 U	180	58/72	300	88	49/49	210
1,2,3-Trichlorobenzene	5	1	2.0 U/2.0 U	200 U/50 U	5.0 U	4.0 U	50 U	1.0 U	1.0 U	1.0 U	120 U	20 U/20 U	50 U	25 U	5.0 U/5.0 U	50 U
1,2,4-Trichlorobenzene	5	1	2.0 U/2.0 U	200 U/50 U	5.0 U	4.0 U	50 U	1.0 U	1.0 U	1.0 U	120 U	20 U/20 U	50 U	25 U	5.0 U/5.0 U	50 U
Total Targeted Site Compounds			48.41/43.75	2510/1455	71.2	54.3	655	1.79	661	0.78	2697	1004/1381	4725	1495	387.2/386.71	3225

Reported Values																
			Sep-08	Jan-09	Feb-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10	Mar-11	May-11	Aug-11	Nov-11
Benzene	1	1	50 U	100 U	1.0 U/1 U	2.9	3.5	2.5 J	250 U/250 U	120 U	50 U	250 U	30 U	100 U	100 U	100 U
Toluene	5	1	50 U	100 U	1.0 U/1 U	1.0 U	1.0 U	1.0 U	251 U/250 U	120 U	50 U	250 U	30U	100 U	75 U	100 U
Chlorobenzene	5	1	2000	2900	240/270	3000	2500	2800	3001/3300	1900	1000	2600	670	1900	1800	1900
1,2-Dichlorobenzene	3	1	50 U	100 U	1.0 U/1 U	1.0 U	1.0 U	3.1 J	250 U/250 U	120 U	50 U	250 U	30 U	100 U	100 U	100 U
1,3-Dichlorobenzene	3	1	9.9 J	100 U	5.6/5.4	25	18	20 J	250 U/250 U	120 U	7.2 J	250 U	4.8 J	100 U	100 U	100 U
1,4-Dichlorobenzene	3	1	120	200	71/70	270	200	240	250/260	130	85	170 J	75	84 J	68 J	81 J
1,2,3-Trichlorobenzene	5	1	50 U	100 U	1.0 U/1 U	1.0 U	1.0 U	1.0 U	250 U/250 U	120 U	50 U	250 U	30 U	100 U	100 U	100 U
1,2,4-Trichlorobenzene	5	1	50 U	100 U	1.0 U/1 U	1.0 U	1.0 U	1.0 U	250 U/250 U	120 U	50 U	250 U	30 U	100 U	100 U	100 U
Total Targeted Site Compounds			2129.9	3100	316.6/345.4	3298	2722	3046	3250/3560	2030	1092.2	2770	749.8	1984	1868	1981

Notes:

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- U - Not detected at the associated reporting limit
- UU - Not detected; associated reporting limit is estimated
- µg/L - Micrograms per liter
- * - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)
- 8.5/9.0 - Results of investigative and duplicate sample
- 38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Historical Groundwater Chemistry Monitoring - Analytical Results
Durez Inlet Remediation Project
Groundwater Monitoring Program
Durez Inlet Site

MW-22I - Continued

Compound/Parameter	* Standard Value (µg/L)	Quantitation Limit (µg/L)	Reported Values													
			Feb-12	May-12	Aug-12	Nov-12	Feb-13	May-13	Aug-13	Nov-13	Feb-14	May-14	Aug-14	Nov-14	Feb-15	May-15
Benzene	1	1	14 J/15 J	6.7 J/50 U	17 J/19 J	20 J/100 U	100 U	40 U	23 J	20 J	200 U	32 J	38 J	36 J	34 J	40 J
Toluene	5	1	100 U/100 U	50 U/50 U	50 U/50 U	100 U/100 U	100 U	40 U	100 U	100 U	200 U	200 U	200 U	200 U	50 U	200 U
Chlorobenzene	5	1	1700/1700	950/950	1100/1200	1300/1200	1100	680	1800	1600	2100	1900	2000	2100	1900	2300
1,2-Dichlorobenzene	3	1	100 U/100 U	50 U/50 U	50 U/50 U	100 U/100 U	100 U	40 U	100 U	100 U	200 U	200 U	200 U	200 U	50 U	200 U
1,3-Dichlorobenzene	3	1	100 U/11 J	6.3 J/50 U	50 U/50 U	11 J/100 U	100 U	40 U	11 J	100 U	200 U	200 U	200 U	200 U	10 J	200 U
1,4-Dichlorobenzene	3	1	110/100	75/68	87/83	78 J/87 J	78 J	38 J	110	80 J	130 J	97 J	110 J	110 J	110	110 J
1,2,3-Trichlorobenzene	5	1	100 U/100 U	50 U/50 U	50 U/50 U	100 U/100 U	100 U	40 U	100 U	100 U	200 U	200 U	200 U	200 U	50 U	200 U
1,2,4-Trichlorobenzene	5	1	100 U/100 U	50 U/50 U	50 U/50 U	100 U/100 U	100 U	40 U	100 U	100 U	200 U	200 U	200 U	200 U	50 U	200 U
Total Targeted Site Compounds			1824/1826	1038/1018	1204/1302	1409/1287	1178	718	1944	1700	2230	2029	2148	2246	2054	2450

			Reported Values													
			Aug-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Oct-18	Apr-19
Benzene	1	1	31 J	38	42 J	25	8.1	36	38	40	35	34	33	28.2	30.6	21.0 / 21.2
Toluene	5	1	100 U	0.16 J	100 U	10 U	5.0 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20.0 U	20.0 U	20.0 U / 1.0 U
Chlorobenzene	5	1	2100	1600	2,000	970	290	2100	2200	1900	2100	2100	2300	1950	2340	1930 / 2040
1,2-Dichlorobenzene	3	1	100 U	2.7	100 U	10 U	2.0 J	3.1 J	20 U	20 U	20 U	20 U	20 U	20.0 U	20.0 U	20.0 U / 1.53
1,3-Dichlorobenzene	3	1	100 U	9.9	100 U	13	6.6	11	20 U	20 U	15 J	12 J	12 J	12.4 J	13.2 J	10.6 J / 10.4
1,4-Dichlorobenzene	3	1	95 J	72 J	91 J	120	70	110	120	160	150	130	150	131	150	122 / 117
1,2,3-Trichlorobenzene	5	1	100 U	1.0 U	100 U	10 U	5.0 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20.0 U	20.0 U	20.0 U / 1.0 U
1,2,4-Trichlorobenzene	5	1	100 U	1.0 U	100 U	10 U	5.0 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20.0 U	20.0 U	20.0 U / 1.0 U
Total Targeted Site Compounds			2226	1723	2,133	1,128	377	2,260	2358	2100	2300	2276	2495	2122	2534	2084 / 2189

			Reported Values										
			Oct-19	May-20	Oct-20	Apr-21	Oct-21	Apr-22	Oct-22	Apr-23	Oct-23	Apr-24	Oct-24
Benzene	1	1	29.4	0.824 J	72.6	54.7	58.7	47.7	329	29.3	28.4	2.14	19.9
Toluene	5	1	20.0 U	1.0 U	1.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	0.358 J
Chlorobenzene	5	1	2220	88.8	3000	3400	3540	3570	3110	4150	761	79.8	284
1,2-Dichlorobenzene	3	1	20.0 U	1.0 U	2.47	25.0 U	25.0 U	25.0 U	25.0 U	5.25 J	1.58 J	1.00 U	0.479 J
1,3-Dichlorobenzene	3	1	11.4 J	0.460 J	21.3	23.7 J	23.8 J	28.5	21.2 J	27.5	3.76	0.392 J	1.48
1,4-Dichlorobenzene	3	1	160	4.80	314	392	428	458	386	521	23.1	3.11	12.1
1,2,3-Trichlorobenzene	5	1	20.0 U	1.0 U	1.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	5	1	20.0 U	1.0 U	1.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	1.00 U
Total Targeted Site Compounds			2421	94.9	3410	3870	4051	4104	3846	4733	818	85.442	318.3

Notes:

J - Estimated

U - Not detected at the associated reporting limit

UU - Not detected; associated reporting limit is estimated

µg/L - Micrograms per liter

* - New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

8.5/9.0 - Results of investigative and duplicate sample

38 - Exceeds New York State Ambient Water Quality Standards and Water Guidance's Values (GA Water Class)

Appendix D

2024 Completed Semiannual Inspection Field Sheets



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL INSPECTION - DUREZ INLET

Site: Durez Inlet

Date: 4/8/24

Inspector: SHAWN GARDNER

Weather:

SUN/CLOUDS 38°F
WINDS ESE 0-5MPH

Inspection Item	Inspect For	
1. <u>Shoreline</u>	- signs of erosion	Y/N
2. <u>River Bank</u>	- signs of erosion	Y/N
3. <u>Aquatic Areas</u>	- signs of erosion	Y/N
4. <u>Cove Cap</u>	- signs of erosion/disturbance - exposed portion	Y/N
	- signs of erosion/disturbance - submerged portion	Y/N
5. <u>North Lobe</u>	- evidence of activity or penetration that could impact effectiveness of cutoff wall	Y/N

Comments/Remarks (Note: If repair/maintenance is recommended, describe its location/extent below)

MW-15I - BURROWING ANIMAL UNDER CONCRETE PAD, HOLES NORTH AND SOUTH OF PAD

Shawn Gardner



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL INSPECTION - DUREZ INLET

Site: Durez Inlet

Date: 10/17/2024

Inspector: S GARDNER

Weather: CLOUDY, FOGGY 30-58°F
WINDS W 0-5MPH

Inspection Item	Inspect For	
1. <u>Shoreline</u>	- signs of erosion	Y <input checked="" type="radio"/> N
2. <u>River Bank</u>	- signs of erosion	Y <input checked="" type="radio"/> N
3. <u>Aquatic Areas</u>	- signs of erosion	Y <input checked="" type="radio"/> N
4. <u>Cove Cap</u>	- signs of erosion/disturbance - exposed portion	Y <input checked="" type="radio"/> N
	- signs of erosion/disturbance - submerged portion	Y <input checked="" type="radio"/> N
5. <u>North Lobe</u>	- evidence of activity or penetration that could impact effectiveness of cutoff wall	Y <input checked="" type="radio"/> N

Comments/Remarks (Note: If repair/maintenance is recommended, describe its location/extent below)

MW-1SI - BURROWING ANIMAL UNDER CONCRETE PAD, HOLES
NORTH AND SOUTH OF PAD

EW-2 - BURROWING ANIMAL UNDER CONCRETE PAD, HOLES
SOUTH OF PAD

11/18/24 FILLED IN HOLES AT WELLS MW-1SI AND EW-2

Shawn Gardner

Appendix E

2024 Passive Diffusion Summary Report



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

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

7601 Old Channel Trail
Montague, MI 49437

January 30, 2025

Reference No. 11230176

Mr. Benjamin McPherson, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
700 Delaware Avenue
Buffalo, NY 14209

Dear Mr. McPherson:

**Re: Summary Report for Passive Diffusion Remediation Program – 2024 Update
Durez Inlet - Durez Division, Occidental Chemical Corporation, Site No. 932018 (Site)
North Tonawanda, Niagara County**

1. Purpose and Background

Glenn Springs Holdings, Inc. (GSH) initially completed a three-year passive diffusion remediation program at groundwater monitoring wells MW-16I, MW-20I, and MW-22I at the Durez Inlet Site located in North Tonawanda, New York. This work was conducted in accordance with "Letter Work Plan for Proposed Passive Diffusion Remediation at MW-16I, MW-20I, and MW-22I" for the Site dated July 23, 2019, revised August 9, 2019, and approved by the New York State Department of Environmental Conservation (NYSDEC) via email on August 13, 2019. The purpose of the passive diffusion remediation program was to decrease the concentrations of Targeted Site Compounds (TSCs) in wells MW-16I, MW-20I, and MW-22I over time. The TSCs consist of benzene; toluene; chlorobenzene; 1,2-, 1-3, and 1-4-dichlorobenzene; and 1,2,3- and 1,2,4-trichlorobenzene. A Site plan is included as Figure 1.

The initial three-year passive diffusion remediation program began on October 21, 2019 with the installation of Oxygen Release Compound® (ORC®) socks into wells MW-16I, MW-20I, and MW-22I immediately following the conclusion of the fall 2019 semiannual groundwater sampling event. The intent of the use of ORC® socks was to produce aerobic conditions in the formation, as chlorobenzene and benzene degrade readily in the presence of oxygen. The solid peroxides in the ORC® socks release oxygen as they dissolve slowly over time. The initial program concluded on October 18, 2022 with completion of the fall 2022 semiannual groundwater sampling event. A summary report¹ detailing the methods and results of the initial three-year program was submitted to the NYSDEC on January 30, 2023 (Summary Report).

¹ Summary Report for Passive Diffusion Remediation Program, Durez Inlet – Durez Division, Occidental Chemical Corporation, Site No. 932018, North Tonawanda, Niagara County, dated January 30, 2023, prepared by Glenn Springs Holdings, Inc.

NYSDEC approved GSH's recommendation to continue the passive diffusion remediation program in a letter dated April 4, 2023 with some program modifications, including collection of additional groundwater samples for TSC analysis from MW-20I and MW-22I immediately following sock removal to provide TSC concentration data while the wells are super-saturated with dissolved oxygen (DO). Passive diffusion treatment was also discontinued at MW-16I. On May 15, 2023, NYSDEC approved inclusion of an annual assessment of the passive diffusion program in the Periodic Review Report (PRR).

This summary report presents an updated evaluation of the efficacy of the passive diffusion remediation program incorporating the results obtained during 2024.

2. ORC Sock Installation and Data Collection

2.1 Sock Installation

In 2023, ORC® socks ("socks") were last replaced in wells MW-20I and MW-22I on December 13, 2023. The socks were then removed on March 12, 2024, approximately one month prior to the spring 2024 semiannual groundwater sampling event, to allow the effects of the ORC® to abate prior to sampling. The additional groundwater samples requested by the NYSDEC were collected from MW-20I and MW-22I immediately following sock removal. New socks were then installed on April 9, 2024, immediately following the conclusion of the spring 2024 semiannual sampling event and were replaced on June 28, 2024.

The socks were subsequently removed on September 19, 2024, approximately one month prior to the fall 2024 semiannual groundwater sampling event. The additional groundwater samples requested by the NYSDEC were collected from MW-20I and MW-22I immediately following removal. New socks were then installed on October 21, 2024, immediately following the conclusion of the fall 2024 sampling event and were replaced on December 20, 2024. This marked the end of the passive diffusion program in 2024. Refer to Table 1 for a log of sock installation, removal, and replacement events since implementation of the passive diffusion program in 2019.

During each sock installation or replacement event, seven feet of ORC® socks were installed at the bottom of each of the wells in the passive diffusion remediation program to cover the five-foot screened interval. Spent ORC® socks were placed into a drum located at the Durez North Tonawanda Site and transported off site for disposal in accordance with applicable regulations.

2.2 Field Parameter Data Collection

During each semiannual groundwater sampling event, temperature, conductivity, and pH were measured in all monitoring wells using a hand-held water quality meter following completion of low-flow purging and stabilization of water quality parameters. Beginning with the February 2021 sock replacement event, these three parameters as well as DO and oxidation-reduction potential (ORP) were measured in all monitoring wells during all sock removal, replacement, and installation events to assist in evaluating the performance of the socks in producing the aerobic conditions needed for TSC degradation. Measurement

of these parameters at the time of sock replacement was discontinued in 2023 due to confirmation that the life expectancy of each sock is at least 2.5 to 3 months.

In 2024, field parameters continued to be measured in all wells at the time of semiannual groundwater sampling, and in the passive diffusion wells (MW-20I and MW-22I) during the additional groundwater sampling conducted immediately following sock removal.

Field water quality parameter data are presented in Table 1. As ORC® socks have never been installed MW-18I or MW-19I, the field parameters measured in these wells represent geochemical conditions in the formation without socks present. These measurements are shaded blue in Table 1 to indicate “no sock present”. Parameters measured during semiannual groundwater sampling events represent geochemical conditions in the formation following a period in which the passive diffusion wells have been sock-free for at least one month. This period is sufficient time for the effects of the artificially elevated DO caused by the physical presence of the socks to abate (refer to Summary Report). Therefore, the groundwater data are representative of conditions in the formation. As such, measurements collected at the time of semiannual groundwater sampling events are also shaded blue in Table 1 to indicate “no sock present.”

Parameters measured during sock replacement events (prior to 2023) and sock removal events in the passive diffusion wells are measured immediately following removal of the socks, and therefore, represent geochemical conditions under the influence of the artificially elevated DO due to the physical presence of the socks. Measurements collected during these times of “sock present” in the passive diffusion wells are shaded orange in Table 1.

3. Results

The results of the semiannual groundwater sampling completed at the Site from implementation of the passive diffusion remediation program in October 2019 through 2024 are presented in Table 2. Concentrations are compared to New York State Class GA Water Quality Standards (Class GA Groundwater Standards). These results, as well as sampling results for approximately ten years prior to implementation of the program, are shown on Charts 1 through 5. Duplicate sample results are included in Table 2 but are not shown on the charts or included in the trend analyses.

An overall comparison of TSC concentrations before and after implementation of the passive diffusion remediation program is presented below. The results of the additional VOC sampling events completed immediately following sock removal are not included in Table 2 or on Charts 1 through 5. These additional samples were collected when the formation was artificially elevated with DO due to the physical presence of the socks and therefore, do not provide data on sustained changes in TSC concentrations resulting from the program.

MW-20I

- **Chlorobenzene (Chart 1a):** Overall, the concentration of chlorobenzene decreased from 2,940 micrograms per liter (µg/L) at the beginning of the passive diffusion program to 1,990 µg/L at the October 2023 semiannual sampling event and has been sustained at less than 2,300 µg/L since that time. This is a sustained decrease of approximately 22 percent since the beginning of the program.

The concentration had been slowly increasing since 2013 and had not been below 2,300 µg/L since August 2016. The concentrations were 2,260 µg/L and 2,220 µg/L in the April 2024 and October 2024 semiannual sampling events, respectively.

- **1,3-Dichlorobenzene (Chart 1b):** Overall, the concentration of 1,3-dichlorobenzene decreased from 22.8 µg/L (estimated) at the beginning of the passive diffusion program to 8.18 µg/L (estimated) at the October 2023 semiannual sampling event and has been sustained at less than 10 µg/L since that time. This is a sustained decrease of approximately 56 percent since the beginning of the program. The concentration had already been slowly decreasing prior to implementation of the program but had not been below 10 µg/L since two isolated non-detects in February 2014 and August 2014. The concentrations were 7.90 µg/L (estimated) and 8.20 µg/L (estimated) in the April 2024 and October 2024 semiannual sampling events, respectively.
- **1,4-Dichlorobenzene (Chart 1c):** Overall, the concentration of 1,4-dichlorobenzene decreased from 398 µg/L at the beginning of the passive diffusion program to 123 µg/L at the October 2023 semiannual sampling event and has been sustained at less than 200 µg/L since that time. This is a sustained decrease of approximately 50 percent since the beginning of the program. The concentration had been stable at approximately 400 µg/L since 2012 and had not been below 200 µg/L since an isolated detection of 150 µg/L in 2010. The concentrations were 105 µg/L and 151 µg/L in the April 2024 and October 2024 semiannual sampling events, respectively.

Although not displayed graphically, the concentration of benzene has increased since the beginning of the passive diffusion program (Table 2). The concentration increased initially from 12.8 µg/L (estimated) in October 2019 to 20.2 µg/L (estimated) in April 2021, then decreased steadily to 12.0 µg/L (estimated) in April 2023, then increased to 15.1 µg/L (estimated) in October 2023 and 25.8 µg/L in April 2024. Benzene was non-detect at a reporting limit of 20.0 µg/L in October 2024.

As indicated in Table 1, with a few isolated exceptions, DO has typically been less than 5 milligrams per liter (mg/L) at the end of the approximate one-month sock-free periods in this well (blue shading on Table 1), indicating that one month continues to be sufficient time for the artificially elevated DO caused by the physical presence of the sock to dissipate prior to sampling.

Prior to 2023, when measured, DO was typically on average approximately 25 to 35 mg/L or greater at the end of the approximate two-month “sock present” periods prior to sock removal or replacement (orange shading on Table 1), indicating that the ORC® in the sock had caused the groundwater to become super-saturated with oxygen. Beginning in 2023, following a decrease in sock removal/replacement frequency to every 2.5 to 3 months, DO has typically been at or slightly below the oxygen saturation threshold of 9 mg/L (at 20 degrees C) during the sock removal events. This suggests that most of the DO provided by the sock has been spent by the time of sock removal/replacement in this well, and therefore the 2.5 to 3-month removal/replacement frequency is still appropriate.

Prior to October 2023, when measured, with a few isolated exceptions, conductivity was typically less than 3 millisiemens per centimeter (mS/cm) at the end of the approximate one-month sock-free periods in this well (blue shading) and was typically on average approximately 10 to 15 mS/cm at the end of the approximate two-month “sock present” periods prior to removal or replacement (orange shading). Beginning in October 2023, conductivity has been slightly higher than previous at the end of the sock-free

periods, ranging from 4.75 mS/cm to 5.91 mS/cm. The reason for this is not clear. With the decrease in sock removal/replacement frequency in 2023 to every 2.5 to 3 months, conductivity has also decreased at the time of sock removal/replacement compared to prior and has ranged from 5.40 mS/cm to 6.23 mS/cm. This also suggests that most of the DO provided by the sock is being spent by the time of sock removal/replacement in this well.

With one exception, when measured, ORP has been negative at the end of the approximate one-month sock-free periods (blue shading), as expected in the absence of the sock. Prior to 2023, when measured, ORP had typically remained negative or was slightly positive at the end of the approximate two-month “sock present” periods prior to removal or replacement (orange shading). Starting in 2023, ORP has been negative at the end of the approximate 2.5 to 3-month “sock present” periods prior to removal/replacement, further suggesting that most of the DO provided by the sock is being spent by the time of sock removal/replacement in this well.

MW-22I

- **Chlorobenzene (Chart 2a):** Overall, the concentration of chlorobenzene decreased from 2,220 µg/L at the beginning of the passive diffusion program to 761 µg/L at the October 2023 semiannual sampling event and has been sustained at less than 1,000 µg/L since that time. This is a sustained decrease of approximately 55 percent since the beginning of the program. The concentration prior to implementation of the program had been stable at approximately 2,000 µg/L since 2013. The concentrations were 79.8 µg/L and 284 µg/L in the April 2024 and October 2024 semiannual sampling events, respectively.
- **1,3-Dichlorobenzene (Chart 2b):** Overall, the concentration of 1,3-dichlorobenzene decreased from 11.4 µg/L (estimated) at the beginning of the passive diffusion program to 3.76 µg/L (estimated) at the October 2023 semiannual sampling event and has been sustained at less than 5 µg/L since that time. This is a sustained decrease of approximately 56 percent since the beginning of the program. The concentration prior to implementation of the program had been stable at approximately 12 µg/L since 2016. The concentrations were 0.392 µg/L (estimated) and 1.48 µg/L in the April 2024 and October 2024 semiannual sampling events, respectively. These concentrations were below the Class GA Groundwater Standard of 3 µg/L.
- **1,4-Dichlorobenzene (Chart 2c):** Overall, the concentration of 1,4-dichlorobenzene decreased from 160 µg/L at the beginning of the passive diffusion program to 23.1 µg/L at the October 2023 semiannual sampling event and has been sustained at less than 25 µg/L since that time. This is a sustained decrease of approximately 84 percent since the beginning of the program. The concentration prior to implementation of the program had been slowly increasing since 2011 and had not been below 25 µg/L since prior to 2008. The concentrations were 3.11 µg/L and 12.1 µg/L at the April 2024 and October 2024 semiannual sampling events, respectively.

Although not displayed graphically, the concentration of benzene increased from 29.4 µg/L at the beginning of the passive diffusion program in October 2019 to 72.6 µg/L at the October 2020 semiannual sampling event and has been declining since that time (Table 2). The concentrations were 2.14 µg/L and 19.9 µg/L in the April 2024 and October 2024 semiannual sampling events, respectively.

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As indicated in Table 1, prior to October 2023, DO had typically been less than 5 mg/L at the end of the approximate one-month sock-free periods in this well (blue shading on Table 1), indicating that one month had been sufficient time for the artificially elevated DO caused by the physical presence of the sock to dissipate prior to sampling. DO had also been on average typically approximately 25 to 35 mg/L or greater at the end of the approximate two-month “sock present” periods prior to sock removal or replacement (orange shading on Table 1), indicating that the ORC® in the sock had caused the groundwater to become super-saturated with oxygen.

Beginning in October 2023, DO at the end of the approximate one-month sock-free periods (blue shading) has ranged from 19.63 mg/L to 33.66 mg/L. These values are similar to the DO measured at the end of the approximate 2.5 to 3-month “sock present” periods and indicates that groundwater at MW-22I is still super-saturated with oxygen one month following sock removal. The reason for this is not clear. It is possible that some ORC® was released from a sock and is sitting in the well providing a continuous source of oxygen. Even if the oxygen was not being consumed due to low levels of remaining contaminant mass, DO would not be expected to remain above the solubility of oxygen in water.

Prior to October 2023, conductivity was typically less than 3 mS/cm at the end of the approximate one-month sock-free periods (blue shading) and was typically on average approximately 7 to 12 mS/cm at the end of the approximate two-month “sock present” periods prior to removal or replacement (orange shading). Beginning in October 2023, conductivity has been slightly higher than previous at the end of the sock-free periods, ranging from 4.45 mS/cm to 7.42 mS/cm. The reason for this is not clear. Conductivity at the time of sock removals since October 2023 has remained in the same approximate range as prior to this date.

Prior to September 2023, ORP in this well had been negative or slightly positive at the end of both the sock-free periods and the “sock present” periods (orange shading). Beginning in October 2023, ORP has been negative at the end of the both the sock-free and “sock present” periods.

MW-16I

- **Chlorobenzene (Chart 3a):** Overall, the concentration of chlorobenzene decreased from 1.89 µg/L at the beginning of the passive diffusion program to 0.262 µg/L (estimated) at the October 2023 semiannual sampling event and has been sustained at less than 0.5 µg/L since that time. This is a sustained decrease of approximately 74 percent since the beginning of the program. The concentration prior to implementation of the program had been slowly increasing since 2012 and had not been below 0.5 µg/L since March 2015. All concentrations have been below the Class GA Groundwater Standard of 5 µg/L since 2007 with the exception of an isolated low-level detection in 2023 and a duplicate sample result in October 2020 (Table 2). The concentrations were non-detect and 0.30 µg/L (estimated) in the April 2024 and October 2024 semiannual sampling events, respectively.
- **1,3-Dichlorobenzene (Chart 3b):** The concentration of 1,3-dichlorobenzene has remained non-detect during implementation of the passive diffusion program.
- **1,4-Dichlorobenzene (Chart 3c):** The concentration of 1,4-dichlorobenzene has remained non-detect during implementation of the passive diffusion program.

Although not displayed graphically, the concentration of benzene has remained either non-detect or at estimated concentrations lower than the Class GA Groundwater Standard of 1 µg/L during implementation of the passive diffusion program (Table 2). The concentrations were non-detect in the April 2024 and October 2024 semiannual sampling events.

MW-16I has been without a sock since September 2022. Refer to Summary Report – 2023 Update for a discussion of field parameter data in this well prior to 2024. Without the presence of a sock in this well in 2024, DO and conductivity have remained low. ORP has remained negative to slightly positive. Refer to Table 1.

MW-18I and MW-19I

Concentrations of TSCs in MW-18I and MW-19I, which have never had socks installed, have remained non-detect during the passive diffusion program (Charts 4 and 5, respectively), with the exception of a few isolated low-level detections.

As indicated in Table 1, following installation of the socks in the passive diffusion wells each April and October from October 2020 through April 2022, DO concentrations in MW-18I and MW-19I typically increased slightly, from less than 5 mg/L to collectively approximately 6 to 15 mg/L, indicating that the ORC® in the socks was oxygenating groundwater throughout the formation proximate to the well field. Conductivity in MW-18I and MW-19I was not observably impacted by the introduction of the socks in the passive diffusion wells during this time period, but ORP in these two wells did increase following some of the sock installation events. Collection of field parameter data in MW-18I and MW-19I following sock installation and replacement events in the passive diffusion wells ended in September 2022.

ORP in MW-19I has generally remained very positive throughout implementation of the program. This well is less impacted with organic compounds and therefore the carbon source that is causing the microbes to consume oxygen and other electron acceptors and naturally create reducing conditions is not present in this well. Although concentrations of TSCs have also generally been non-detect in MW-18I, ORP has generally been negative in MW-18I when the socks have been absent from the passive diffusion wells, suggesting that conditions may be naturally reducing proximate to MW-18I.

Additional Sampling Events

At the request of the NYSDEC, immediately following removal of the socks in September 2023, March 2024, and September 2024, samples were collected for VOC analysis from MW-20I and MW-22I, as described in Section 2. Results are shown in Table 3 and on Charts 6 and 7. In MW-20I (Chart 6), concentrations of chlorobenzene and 1,4-dichlorobenzene in September 2023 were slightly lower than predicted based on the trends established by the semiannual sampling events, and concentrations of these compounds in March 2024 and September 2024 were generally consistent with the trends established by the semiannual sampling events. As concentrations of 1,3-dichlorobenzene detected in MW-20I since October 2023 have been low-level, estimated concentrations (below 8.2 µg/L), this compound is not used for comparison.

As the low to moderate concentrations of DO in September 2023, March 2024, and September 2024 at MW-20I at the end of the approximate 2.5 to 3-month “sock present” periods suggest that most of the

oxygen provided by the socks had been consumed at the time of sock removal, it is not surprising that the concentrations of chlorobenzene and 1,4-dichlorobenzene at the time of sock removal in this well were approximately consistent with the trends established by the semiannual sampling events, which are conducted following a sock-free period of approximately one month.

In MW-22I (Chart 7), the concentrations of chlorobenzene and 1,4-dichlorobenzene at the time of sock removal in September 2023, March 2024, and September 2024 were also approximately consistent with the trends established by the semiannual sampling events. Similar to MW-20I, 1,3-dichlorobenzene was not used for comparison due to the low-level, estimated concentrations (below 3.8 µg/L) detected in both sets of data.

As the VOC data collected immediately following sock removal events is approximately consistent with the trends established by the semiannual sampling data at the current frequency of sock removal and replacement, it is recommended to discontinue the additional sampling event.

4. Discussion

As indicated in Section 3, with the exception of benzene in MW-20I, concentrations of TSCs in MW-20I, MW-22I, and MW-16I have decreased significantly since the beginning of the passive diffusion program and have been sustained at lower concentrations since October 2023. In all three of these wells, concentrations of TSCs increased initially following installation of the first ORC® socks in October 2019, peaked between 2020 and 2023, and then started declining to current levels. These increases and decreases are not consistent with the natural variability observed in the long-term data sets prior to implementation of the passive diffusion program and were most pronounced in MW-22I. This pattern suggests a response triggered by a sudden change in conditions, most likely the sudden change in geochemical conditions induced by introduction of the socks in the fall of 2019. The initial increase in TSC concentrations were likely due to the release of organic compounds bound to organic carbon in the soil as the organic carbon was degraded under the aerobic conditions induced by the socks. The subsequent decrease in TSC concentrations were likely due to the degradation of the released organic compounds in groundwater. It is possible that the increase in benzene concentration in MW-20I since the beginning of the program represents continued release of benzene from organic carbon into groundwater or is the product of dechlorination of chlorobenzene to benzene in anaerobic pockets in the formation.

In MW-20I, the field parameter data suggest that the oxygen provided by the ORC® socks is being consumed, and the socks are approaching the end of their life expectancy at the time of removal and replacement. This indicates that the 2.5 to 3-month sock removal/replacement frequency in this well is still appropriate. The concentrations of chlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene have decreased by approximately 22 percent, 56 percent, and 50 percent, respectively, since the beginning of the passive diffusion program. The decrease in chlorobenzene concentration is not as large as the decrease in dichlorobenzene concentrations at this well because chlorobenzene is likely being formed as the dichlorobenzenes degrade, so it is being both produced and degraded at the same time. Continued implementation of the passive diffusion program at MW-20I in 2025 is recommended.

In MW-22I, the concentrations of chlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene have decreased by approximately 55 percent, 56 percent, and 84 percent, respectively, since the beginning of the passive diffusion program. Benzene concentrations have also decreased. Concentrations in this well decreased sharply in October 2023, coinciding with sharp decreases in concentration also observed at MW-20I and MW-16I at this time. It is recommended that following removal of the ORC® sock currently in this well in March 2025 (approximately one month prior to the spring 2025 sampling event), the sock not be re-installed in this well. This will allow the excess DO to dissipate and it can be observed if the concentrations are sustained at the current relatively low levels.

In MW-16I, the concentration of chlorobenzene has decreased by approximately 74 percent since the beginning of the passive diffusion program. Concentrations of 1,3-dichlorobenzene and 1,4-dichlorobenzene have remained non-detect, and benzene has remained non-detect or at estimated concentrations lower than the Class GA Groundwater Standard of 1 µg/L. Continued monitoring of this well is recommended.

Although groundwater in the passive diffusion wells became super-saturated with oxygen following installation of the socks, and saturation or super-saturation was maintained throughout the periods in which the socks were present, the generally negative or only slightly positive ORP values and elevated conductivity that was not always maintained during these time periods indicates that the ORP and conductivity values were out of step with the DO values. The data suggest that ORP, which is a general measurement of oxidizing versus reducing conditions in the formation, was not strongly affected by the high DO values. This does not mean that the passive diffusion program is not effective. This only suggests that the oxygen from the socks may have been quickly consumed by aerobic bacteria using oxygen as a terminal electron acceptor for contaminant oxidation, contaminant oxidation being the goal of the program, before it could cause a sustained change from anaerobic conditions to aerobic conditions in the formation. This quick consumption of the oxygen introduced by the socks is likely to continue as long as degradable compounds are present in the groundwater. Therefore, a large, sustained increase in ORP would not be expected until concentrations of chlorobenzenes and other organic compounds in the groundwater have been reduced to low concentrations. Provided that oxygen continues to be provided to the formation by the socks, the passive diffusion program will continue to be effective in causing the desorption and biodegradation of TSCs, despite the fact that the oxygen is being consumed by bacteria that are degrading the TSCs and other organic matter before it can cause sustained changes in geochemical conditions in the formation.

5. Recommendations

GSH recommends that the passive diffusion program be continued in 2025, after which, an evaluation will be performed to determine future action. GSH does not recommend any changes to the program except for the following:

- Starting with the March 2025 ORC® sock removal event, discontinue the additional VOC sampling event at MW-20I and MW-22I that was requested by the NYSDEC. Results from this additional sampling event conducted in September 2023, March 2024, and September 2024 do not currently provide significant value in evaluating remedial efficacy.

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- Following removal of the ORC® sock in MW-22I in March 2025, discontinue the passive diffusion program at this well to allow excess DO to dissipate and monitor the resulting effects on TSC concentrations. An evaluation of the 2025 data will assist in determining if passive diffusion should be reinstated in this well in 2026.

The proposed schedule for implementation of the program through mid-April 2025 was approved in NYSDEC's May 20, 2024 letter approving the 2023 PRR. The approved schedule with the proposed modifications presented above, along with the proposed schedule for the remainder of 2025 and early 2026, is as follows:

2025

- **Mid-March 2025:** Removal of ORC® socks from MW-20I and MW-22I.
- **Mid-April 2025:** Semiannual groundwater sampling of MW-16I, MW-18I, MW-19I, MW-20I, and MW-22I. Install ORC® sock in MW-20I immediately following end of sampling event.
- **Late June 2025:** Replacement of ORC® sock in MW-20I.
- **Mid-September 2025:** Removal of ORC® sock from MW-20I.
- **Mid-October 2025:** Semiannual groundwater sampling of MW-16I, MW-18I, MW-19I, MW-20I, and MW-22I. Install ORC® sock in MW-20I immediately following end of sampling event.
- **Late December 2025:** Replacement of ORC® sock in MW-20I.

2026

- **Late January 2026:** Submittal of annual assessment of passive diffusion program with PRR, incorporating 2025 results.
- **Mid-March 2026:** Removal of ORC® sock from MW-20I.
- **Mid-April 2026:** Semiannual groundwater sampling of MW-16I, MW-18I, MW-19I, MW-20I, and MW-22I. Install ORC® sock in MW-20I immediately following end of sampling event if passive diffusion program is to be continued in 2026.

The NYSDEC will continue to be notified prior to each of the events listed above.

If you have any questions regarding this submittal, please feel free to contact me at 231-670-6809 or by email at joseph_branch@oxy.com.

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.



Joseph Branch
Project Manager

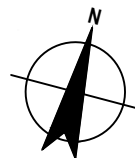
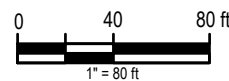
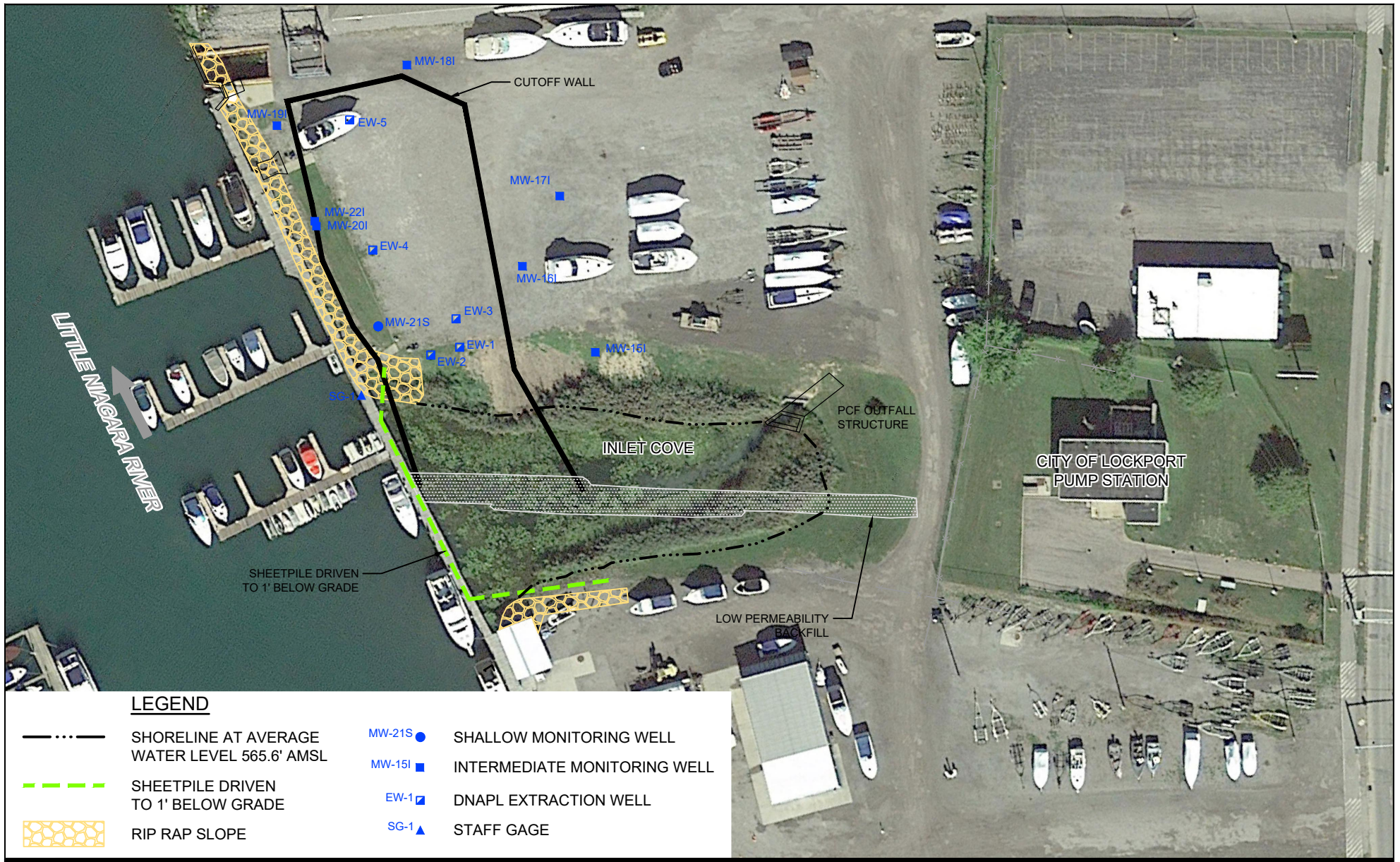
January 30, 2025

Reference No. 11230176

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MP
Encl.

cc: John Pentilchuk, GHD
Margaret Popek, GHD
Dennis Hoyt, Geosyntec
Robert J. Kunkel, Jr., Oar Marina LLC



GLENN SPRINGS HOLDINGS, INC.
DUREZ INLET SITE
NORTH TONAWANDA, NEW YORK

Project No. 11230176
Date January 2025

SITE PLAN

FIGURE 1

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

MW-16I													
Parameter	October 2019	December 2019	February 2020	March 2020	May 2020	July 2020	September 2020	October 2020	December 2020	February 2021	March 2021	April 2021	June 2021
Event	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement
Data Reflects:	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present
Temperature (°C)	13.3	NM	NM	NM	12.7	NM	NM	14.3	NM	10.7	10.2	12.2	12.5
Conductivity (mS/cm)	1.16	NM	NM	NM	0.8	NM	NM	1.56	NM	5.87	10.11	0.99	9.42
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	3.37	NM	NM	2.4	NM	43.14	45.30	2.37	28.90
pH	7.07	NM	NM	NM	8.59	NM	NM	7.81	NM	12.45	12.75	9.44	11.69
ORP (mV)	NM	NM	NM	NM	-140.9	NM	NM	-122	NM	30.4	-100.3	-60.4	-64.9
MW-19I													
Parameter	October 2019	December 2019	February 2020	March 2020	May 2020	July 2020	September 2020	October 2020	December 2020	February 2021	March 2021	April 2021	June 2021
Event	GW Sampling	NA	NA	NA	GW Sampling	NA	NA	GW Sampling	NA	NA	NA	GW Sampling	NA
	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	13.91	NM	NM	NM	11.8	NM	NM	12.4	NM	9.1	10.7	12.2	13.4
Conductivity (mS/cm)	1.17	NM	NM	NM	1.09	NM	NM	1.08	NM	1.34	0.94	0.92	0.95
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	2.98	NM	NM	4.57	NM	5.83	10.03	5.06	5.97
pH	7.25	NM	NM	NM	7.41	NM	NM	6.58	NM	9.15	7.07	7.48	7.15
ORP (mV)	NM	NM	NM	NM	-50	NM	NM	0.3	NM	46.5	118.8	72.5	155.5
MW-22I													
Parameter	October 2019	December 2019	February 2020	March 2020	May 2020	July 2020	September 2020	October 2020	December 2020	February 2021	March 2021	April 2021	June 2021
Event	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement
	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present
Temperature (°C)	13.4	NM	NM	NM	9.9	NM	NM	11.8	NM	7.1	8.3	11.3	13.6
Conductivity (mS/cm)	2.02	NM	NM	NM	NM	NM	NM	2.45	NM	5.88	12.16	2.16	10.49
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	5.41	NM	NM	1.74	NM	42.83	54.90	3.38	26.28
pH	7.46	NM	NM	NM	11.45	NM	NM	8.27	NM	13.23	12.28	10.02	11.92
ORP (mV)	NM	NM	NM	NM	-74.8	NM	NM	-125.3	NM	8.5	-82.9	21.1	-55.6

Notes:

- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
- ***

- Initial 3-year passive diffusion remediation program concluded in October 2022. New ORC socks are not installed during evaluation of initial program results.
- Sock Replacement

- Sock replacement event. New ORC socks are installed in the designated wells and the existing socks are disposed. From February 2021 through July 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing, prior to sock replacement. Starting in 2023, field parameters are not measured prior to sock replacement.
- Sock Removal

- Sock removal event. The ORC socks in the designated wells are removed and are not replaced. From March 2021 through September 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing. Starting in 2023, field parameters are measured at the time of VOC sampling (following low-flow purging) immediately following sock removal.
- Field parameter measurement represents groundwater without ORC sock present.
- Field parameter measurement represents groundwater with ORC sock present.
- NA

- Not Applicable. Well not part of passive diffusion remedial program. From February 2021 through September 2022, field parameters are still measured for comparison to wells that have ORC socks installed during sock removal and replacement events.
- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

MW-16I													
Parameter	August 2021	September 2021	October 2021	December 2021	February 2022	March 2022	April 2022	July 2022	September 2022	October 2022	April 2023	June 2023	September 2023
Event	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling***	GW Sampling	NA	NA
Data Reflects:	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	15.9	18.15	13.2	12.0	9.7	9.0	10.5	14.3	18.8	12.0	13.9	NM	NM
Conductivity (mS/cm)	9.49	7.85	0.77	8.85	1.37	9.01	0.615	17.84	0.034	0.73	0.80	NM	NM
Dissolved Oxygen (mg/L)	30.07	24.88	3.40	26.86	24.56	32.40	5.02	37.53	15.14	NM	6.45	NM	NM
pH	12.11	12.75	9.52	12.56	12.02	13.8	9.85	12.63	5.01	9.33	8.31	NM	NM
ORP (mV)	-29.6	-62.1	-84.6	5.8	26.2	-28.4	-8.2	-96.6	-264.7	NM	-23.6	NM	NM
MW-19I													
Parameter	August 2021	September 2021	October 2021	December 2021	February 2022	March 2022	April 2022	July 2022	September 2022	October 2022	April 2023	June 2023	September 2023
Event	NA	NA	GW Sampling	NA	NA	NA	GW Sampling	NA	NA	GW Sampling	GW Sampling	NA	NA
	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	17.7	20.4	12.8	11.5	8.7	8.6	11.4	15	18.3	11.9	13.4	NM	NM
Conductivity (mS/cm)	0.96	0.95	0.96	0.95	0.95	0.96	0.98	1.93	1.07	1.06	1.03	NM	NM
Dissolved Oxygen (mg/L)	10.18	2.53	1.37	7.35	7.12	6.13	2.71	7.56	9.25	NM	3.96	NM	NM
pH	7.13	7.38	7.49	7.72	7.04	7.16	7.98	7.26	8.22	7.52	7.39	NM	NM
ORP (mV)	157.8	201.6	183.7	142.1	185	165.8	150.9	90.2	152.1	NM	68.5	NM	NM
MW-22I													
Parameter	August 2021	September 2021	October 2021	December 2021	February 2022	March 2022	April 2022	July 2022	September 2022	October 2022	April 2023	June 2023	September 2023
Event	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling***	GW Sampling and Sock Installation	Sock Replacement	Sock Removal
	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	no sock present	sock present	sock present
Temperature (°C)	18.1	19.5	13.3	9.8	7.6	7.2	9.9	15.2	18.8	11.8	12.9	NM	15.8
Conductivity (mS/cm)	7.66	7.78	2.15	10.55	3	38.29	1.99	16.31	0.044	2.02	2.02	NM	8.11
Dissolved Oxygen (mg/L)	25.46	22.20	2.38	30.34	30.95	38.07	2.81	30.17	12.75	NM	4.64	NM	21.77
pH	12.43	12.79	10.59	13.07	12.7	12.95	10.35	12.77	8.83	10.15	9.29	NM	12.01
ORP (mV)	6.7	-46.5	-36.4	-0.1	-12.4	-21.6	74.9	-93.5	146.7	NM	12	NM	-111.6

- Notes:
- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
- ***

- Initial 3-year passive diffusion remediation program concluded in October 2022. New ORC socks are not installed during evaluation of initial program results.
- Sock Replacement

- Sock replacement event. New ORC socks are installed in the designated wells and the existing socks are disposed. From February 2021 through July 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing, prior to sock replacement. Starting in 2023, field parameters are not measured prior to sock replacement.
- Sock Removal

- Sock removal event. The ORC socks in the designated wells are removed and are not replaced. From March 2021 through September 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing. Starting in 2023, field parameters are measured at the time of VOC sampling (following low-flow purging) immediately following sock removal.
- Field parameter measurement represents groundwater without ORC sock present.
- Field parameter measurement represents groundwater with ORC sock present.
- NA

- Not Applicable. Well not part of passive diffusion remedial program. From February 2021 through September 2022, field parameters are still measured for comparison to wells that have ORC socks installed during sock removal and replacement events.
- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

MW-16I								
Parameter	October 2023	December 2023	March 2024	April 2024	June 2024	September 2024	October 2024	December 2024
Event	GW Sampling	NA	NA	GW Sampling	NA	NA	GW Sampling	NA
Data Reflects:	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	10.5	NM	NM	14.0	NM	NM	17.2	NM
Conductivity (mS/cm)	1.05	NM	NM	0.98	NM	NM	1.00	NM
Dissolved Oxygen (mg/L)	6.19	NM	NM	3.90	NM	NM	2.31	NM
pH	11.09	NM	NM	10.87	NM	NM	10.77	NM
ORP (mV)	-25.6	NM	NM	16	NM	NM	-97	NM
MW-19I								
Parameter	October 2023	December 2023	March 2024	April 2024	June 2024	September 2024	October 2024	December 2024
Event	GW Sampling	NA	NA	GW Sampling	NA	NA	GW Sampling	NA
	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	10.4	NM	NM	11.7	NM	NM	17.0	NM
Conductivity (mS/cm)	1.18	NM	NM	1.11	NM	NM	1.14	NM
Dissolved Oxygen (mg/L)	0.31	NM	NM	0.99	NM	NM	0.67	NM
pH	7.27	NM	NM	7.32	NM	NM	7.43	NM
ORP (mV)	39.1	NM	NM	116	NM	NM	-4	NM
MW-22I								
Parameter	October 2023	December 2023	March 2024	April 2024	June 2024	September 2024	October 2024	December 2024
Event	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement
	no sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	sock present
Temperature (°C)	10.4	NM	9.9	14.5	NM	18.1	19.7	NM
Conductivity (mS/cm)	7.42	NM	9.30	4.45	NM	8.67	6.52	NM
Dissolved Oxygen (mg/L)	19.63	NM	42.31	33.66	NM	27.71	24.58	NM
pH	12.59	NM	12.75	12.56	NM	12.63	12.59	NM
ORP (mV)	-90.1	NM	-38	-32	NM	-62	-75	NM

Notes:

- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
- ***

- Initial 3-year passive diffusion remediation program concluded in October 2022. New ORC socks are not installed during evaluation of initial program results.
- Sock Replacement

- Sock replacement event. New ORC socks are installed in the designated wells and the existing socks are disposed. From February 2021 through July 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing, prior to sock replacement. Starting in 2023, field parameters are not measured prior to sock replacement.
- Sock Removal

- Sock removal event. The ORC socks in the designated wells are removed and are not replaced. From March 2021 through September 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing. Starting in 2023, field parameters are measured at the time of VOC sampling (following low-flow purging) immediately following sock removal.
- Field parameter measurement represents groundwater without ORC sock present.
- Field parameter measurement represents groundwater with ORC sock present.
- NA

- Not Applicable. Well not part of passive diffusion remedial program. From February 2021 through September 2022, field parameters are still measured for comparison to wells that have ORC socks installed during sock removal and replacement events.
- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

MW-18I													
Parameter	October 2019	December 2019	February 2020	March 2020	May 2020	July 2020	September 2020	October 2020	December 2020	February 2021	March 2021	April 2021	June 2021
Event	GW Sampling	NA	NA	NA	GW Sampling	NA	NA	GW Sampling	NA	NA	NA	GW Sampling	NA
Data Reflects:	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	13.5	NM	NM	NM	11.6	NM	NM	14	NM	8.2	9.7	12.2	13.7
Conductivity (mS/cm)	1.18	NM	NM	NM	0.95	NM	NM	0.702	NM	0.410	0.276	1.24	0.348
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	3.3	NM	NM	4.06	NM	8.10	11.77	1.84	7.61
pH	6.95	NM	NM	NM	7.4	NM	NM	10.36	NM	10.79	8.20	7.46	6.55
ORP (mV)	NM	NM	NM	NM	-103.9	NM	NM	-44	NM	-15.9	-13.8	-80.3	136.8
MW-20I													
Parameter	October 2019	December 2019	February 2020	March 2020	May 2020	July 2020	September 2020	October 2020	December 2020	February 2021	March 2021	April 2021	June 2021
Event	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement
	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present
Temperature (°C)	13.36	NM	NM	NM	11.7	NM	NM	11.2	NM	8.2	7.9	11.4	13.7
Conductivity (mS/cm)	2.67	NM	NM	NM	2.28	NM	NM	2.42	NM	12.91	15.59	2.01	10.06
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	4.85	NM	NM	1.14	NM	41.04	52.18	4.45	27.09
pH	7.61	NM	NM	NM	8.84	NM	NM	7.82	NM	12.59	12.73	9.63	12.04
ORP (mV)	NM	NM	NM	NM	-21.2	NM	NM	-120.6	NM	125.4	-94.3	-49.2	-48.9

- Notes:
- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
- ***

- Initial 3-year passive diffusion remediation program concluded in October 2022. New ORC socks are not installed during evaluation of initial program results.
- Sock Replacement

- Sock replacement event. New ORC socks are installed in the designated wells and the existing socks are disposed. From February 2021 through July 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing, prior to sock replacement. Starting in 2023, field parameters are not measured prior to sock replacement.
- Sock Removal

- Sock removal event. The ORC socks in the designated wells are removed and are not replaced. From March 2021 through September 2022, field parameters are measured immediately upon sock removal on water bailed from the well casing. Starting in 2023, field parameters are measured at the time of VOC sampling (following low-flow purging) immediately following sock removal.
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- Field parameter measurement represents groundwater with ORC sock present.
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- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

Parameter	MW-18I												
	August 2021	September 2021	October 2021	December 2021	February 2022	March 2022	April 2022	July 2022	September 2022	October 2022	April 2023	June 2023	September 2023
	NA	NA	GW Sampling	NA	NA	NA	NA	NA	NA	GW Sampling	GW Sampling	NA	NA
	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	17.8	19.8	13.4	13.3	9.3	9.3	10.5	15.6	18.5	12.2	12.6	NM	NM
Conductivity (mS/cm)	0.261	0.295	0.95	0.252	0.21	0.32	0.89	0.81	0.539	0.94	0.89	NM	NM
Dissolved Oxygen (mg/L)	9.34	2.49	2.63	9.39	12.83	8.28	2.58	15.45	7.61	NM	4.22	NM	NM
pH	6.42	6.74	7.45	6.90	7.10	6.31	7.94	6.83	8.59	7.44	7.47	NM	NM
ORP (mV)	150.8	215.5	-83.4	144.7	150.6	206.6	72.7	97.3	142.6	NM	-33.3	NM	NM

Parameter	MW-20I												
	August 2021	September 2021	October 2021	December 2021	February 2022	March 2022	April 2022	July 2022	September 2022	October 2022	April 2023	June 2023	September 2023
	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling***	GW Sampling and Sock Installation	Sock Replacement	Sock Removal
	sock present	sock present	no sock present	sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	no sock present	sock present	sock present
Temperature (°C)	17.9	19.2	13.5	9.5	7.6	7.4	10.3	16.5	18.9	12.1	12.9	NM	14.4
Conductivity (mS/cm)	11.53	12.11	2.01	10.20	2.69	9.76	1.92	18.57	0.016	1.90	1.89	NM	5.40
Dissolved Oxygen (mg/L)	25.51	23.86	2.50	30.33	29.19	37.76	3.15	31.37	13.54	NM	7.42	NM	3.54
pH	12.33	12.89	9.97	13.12	12.34	12.69	10.4	12.69	7.92	9.86	9.09	NM	11.61
ORP (mV)	-23.2	-58.4	-111.5	-2.3	9.6	-14.3	51.7	-96.4	75.9	NM	-22.6	NM	-151.7

Notes:

- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
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- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 1
Water Quality Parameters
Durez Inlet Site
North Tonawanda, New York

MW-18I								
Parameter	October 2023	December 2023	March 2024	April 2024	June 2024	September 2024	October 2024	December 2024
Event	GW Sampling	NA	NA	GW Sampling	NA	NA	GW Sampling	NA
Data Reflects:	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present	no sock present
Temperature (°C)	10.1	NM	NM	13.6	NM	NM	16.9	NM
Conductivity (mS/cm)	1.07	NM	NM	1.02	NM	NM	1.10	NM
Dissolved Oxygen (mg/L)	0.60	NM	NM	0.64	NM	NM	0.81	NM
pH	7.25	NM	NM	7.28	NM	NM	6.81	NM
ORP (mV)	-111.2	NM	NM	-56	NM	NM	-123	NM

MW-20I								
Parameter	October 2023	December 2023	March 2024	April 2024	June 2024	September 2024	October 2024	December 2024
Event	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement	Sock Removal	GW Sampling and Sock Installation	Sock Replacement
	no sock present	sock present	sock present	no sock present	sock present	sock present	no sock present	sock present
Temperature (°C)	10.6	NM	9.7	18.4	NM	17.0	18.4	NM
Conductivity (mS/cm)	5.65	NM	6.23	5.91	NM	5.69	4.75	NM
Dissolved Oxygen (mg/L)	1.78	NM	9.60	11.39	NM	7.29	2.13	NM
pH	11.85	NM	12.28	12.42	NM	12.03	11.78	NM
ORP (mV)	-98.6	NM	-73	-103	NM	-79	-166	NM

Notes:

- Well part of passive diffusion remediation program.
- GW Sampling

- Semiannual groundwater sampling event. The ORC socks are removed approximately one month prior to this sampling event and are not replaced.
Field parameters are measured in all wells at the time of semiannual sampling (following purging), and then new ORC socks are installed in the designated wells.
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- NM

- Not Measured
- °C

- Degrees Celsius
- mS/cm

- Millisiemens per centimeter
- mg/L

- Milligrams per liter
- mV

- Millivolts

Table 2

Groundwater Chemistry Monitoring Analytical Results Durez Inlet Site North Tonawanda, New York															
Sample Location:				MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I
Sample ID:				MW-16I-1019	MW-9I-1019	MW-16I-0420	MW-9I-0420	MW-16I-1020	MW-9I-1020	MW-16I-0421	MW-9I-0421	MW-16I-1021	MW-9I-1021	MW16I-0422	MW-16I-1022
Sample Date:				10/21/2019	10/21/2019 Duplicate	5/6/2020	5/6/2020 Duplicate	10/19/2020	10/19/2020 Duplicate	4/13/2021	4/13/2021 Duplicate	10/19/2021	10/19/2021 Duplicate	4/27/2022	10/18/2022
Compound/Parameter	Units	GW Standard*	Reporting Limit												
1,2,3-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.82	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Benzene	ug/L	1	1	0.510 J	0.520 J	0.886 J	0.949 J	0.595 J	1.00 U	0.622 J	0.673 J	0.222 J	0.295 J	0.236 J	0.254 J
Chlorobenzene	ug/L	5	1	1.89	1.76	2.80	3.07	2.79 J	7.04 J	2.88	3.01	1.73	2.04	1.63	2.80
Toluene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

- Notes:
- U
- Not detected at the associated reporting limit.
- J
- Estimated concentration.
- µg/L
- Micrograms per liter
- *
- New York State Class GA Groundwater Standard
-
- Exceeds New York State Class GA Groundwater Standard
-
- 2024 Results

Table 2

Groundwater Chemistry Monitoring Analytical Results															
Durez Inlet Site															
North Tonawanda, New York															
Sample Location:				MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-16I	MW-18I	MW-18I	MW-18I	MW-18I	MW-18I	MW-18I
Sample ID:				MW-16I-0423	MW-9I-0423	MW-16I-1023	MW-16I-0424	MW-16I-1024	MW-9I-1024	MW-18I-1019	MW-18I-0420	MW-18I-1020	MW-18I-0421	MW-18I-1021	MW18I-0422
Sample Date:				4/13/2023	4/13/2023	10/31/2023	4/9/2024	10/21/2024	10/21/2024	10/21/2019	5/6/2020	10/19/2020	4/13/2021	10/19/2021	4/27/2022
				Duplicate			Duplicate								
Compound/Parameter	Units	GW Standard*	Reporting Limit												
1,2,3-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Benzene	ug/L	1	1	0.260 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	ug/L	5	1	5.51	5.13	0.262 J	1.00 U	0.301 J	0.361 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.14	0.235 J	0.294 J	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Notes:															
U	-Not detected at the associated reporting limit.														
J	-Estimated concentration.														
µg/L	-Micrograms per liter														
*	- New York State Class GA Groundwater Standard														
	- Exceeds New York State Class GA Groundwater Standard														
	- 2024 Results														

Table 2

Groundwater Chemistry Monitoring Analytical Results Durez Inlet Site North Tonawanda, New York															
Sample Location: Sample ID: Sample Date:				MW-18I MW-18I-1022 10/18/2022	MW-18I MW-9I-1022 10/18/2022 Duplicate	MW-18I MW-18I-0423 4/13/2023	MW-18I MW-18I-1023 10/31/2023	MW-18I MW-9I-1023 10/31/2023 Duplicate	MW-18I MW-18I-0424 4/9/2024	MW-18I MW-9I-0424 4/9/2024 Duplicate	MW-18I MW-18I-1024 10/21/2024	MW-19I MW-19I-1019 10/21/2019	MW-19I MW-19I-0420 5/6/2020	MW-19I MW-19I-1020 10/19/2020	MW-19I MW-19I-0421 4/13/2021
Compound/Parameter	Units	GW Standard*	Reporting Limit												
1,2,3-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Benzene	ug/L	1	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	ug/L	5	1	1.00 U	1.00 U	0.350 J	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	0.212 J	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

Notes:

U -Not detected at the associated reporting limit.

J -Estimated concentration.

µg/L -Micrograms per liter

* - New York State Class GA Groundwater Standard

- Exceeds New York State Class GA Groundwater Standard

- 2024 Results

Table 2

Groundwater Chemistry Monitoring Analytical Results
Durez Inlet Site
North Tonawanda, New York

Sample Location:				MW-19I	MW-19I	MW-19I	MW-19I	MW-19I	MW-19I	MW-19I	MW-20I	MW-20I	MW-20I	MW-20I	MW-20I
Sample ID:				MW19I-1021	MW19I-0422	MW-19I-1022	MW-19I-0423	MW-19I-1023	MW-19I-0424	MW-19I-1024	MW-20I-1019	MW-20I-0420	MW-20I-1020	MW-20I-0421	MW-20I-1021
Sample Date:				10/19/2021	4/27/2022	10/18/2022	4/13/2023	10/31/2023	4/9/2024	10/21/2024	10/21/2019	5/6/2020	10/19/2020	4/13/2021	10/19/2021
Compound/Parameter	Units	GW Standard*	Reporting Limit												
1,2,3-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
1,2,4-Trichlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
1,2-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
1,3-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	22.8 J	23.5 J	22.9 J	19.9 J	19.2 J
1,4-Dichlorobenzene	ug/L	3	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	398	421	441	376	341
Benzene	ug/L	1	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	12.8 J	17.4 J	17.8 J	20.2 J	18.3 J
Chlorobenzene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2940	2910	3340	3130	2850
Toluene	ug/L	5	1	1.00 U	1.00 U	1.00 U	1.00 U	0.349 J	0.275 J	1.00 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U

Notes:

U -Not detected at the associated reporting limit.

J -Estimated concentration.

µg/L -Micrograms per liter

* - New York State Class GA Groundwater Standard

- Exceeds New York State Class GA Groundwater Standard

- 2024 Results

Table 2

Groundwater Chemistry Monitoring Analytical Results
Durez Inlet Site
North Tonawanda, New York

Sample Location:				MW-20I	MW-20I	MW-20I	MW-20I	MW-20I	MW-20I	MW-20I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I
Sample ID:				MW20I-0422	MW9I-0422	MW-20I-1022	MW-20I-0423	MW-20I-1023	MW-20I-0424	MW-20I-1024	MW-22I-1019	MW-22I-0420	MW-22I-1020	MW-22I-0421	MW22I-1021
Sample Date:				4/27/2022	4/27/2022	10/18/2022	4/13/2023	10/31/2023	4/9/2024	10/21/2024	10/21/2019	5/6/2020	10/19/2020	4/13/2021	10/19/2021
				Duplicate											
Compound/Parameter	Units	GW Standard*	Reporting Limit												
1,2,3-Trichlorobenzene	ug/L	5	1	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U	20.0 U	1.00 U	1.00 U	25.0 U	25.0 U
1,2,4-Trichlorobenzene	ug/L	5	1	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U	20.0 U	1.00 U	1.00 U	25.0 U	25.0 U
1,2-Dichlorobenzene	ug/L	3	1	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U	20.0 U	1.00 U	2.47	25.0 U	25.0 U
1,3-Dichlorobenzene	ug/L	3	1	22.0 J	21.7 J	14.9 J	22.5 J	8.18 J	7.90 J	8.20 J	11.4 J	0.460 J	21.3	23.7 J	23.8 J
1,4-Dichlorobenzene	ug/L	3	1	367	295	254	322	123	105	151	160	4.80	314	392	428
Benzene	ug/L	1	1	15.6 J	14.9 J	12.1 J	12.0 J	15.1 J	25.8	20.0 U	29.4	0.824 J	72.6	54.7	58.7
Chlorobenzene	ug/L	5	1	2650	2340	2230	2380	1990	2260	2220	2220	88.8	3000	3400	3540
Toluene	ug/L	5	1	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	20.0 U	20.0 U	1.00 U	1.00 U	25.0 U	25.0 U

- Notes:
- U
- Not detected at the associated reporting limit.
- J
- Estimated concentration.
- µg/L
- Micrograms per liter
- *
- New York State Class GA Groundwater Standard
-
- Exceeds New York State Class GA Groundwater Standard
-
- 2024 Results

Table 2

Groundwater Chemistry Monitoring Analytical Results
Durez Inlet Site
North Tonawanda, New York

Sample Location:				MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I
Sample ID:				MW22I-0422	MW-22I-1022	MW-22I-0423	MW-22I-1023	MW-22I-0424	MW-22I-1024
Sample Date:				4/27/2022	10/18/2022	4/13/2023	10/31/2023	4/9/2024	10/21/2024
Compound/Parameter	Units	GW Standard*	Reporting Limit						
1,2,3-Trichlorobenzene	ug/L	5	1	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	ug/L	5	1	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	ug/L	3	1	25.0 U	25.0 U	5.25 J	1.58 J	1.00 U	0.479 J
1,3-Dichlorobenzene	ug/L	3	1	28.5	21.2 J	27.5	3.76 J	0.392 J	1.48
1,4-Dichlorobenzene	ug/L	3	1	458	386	521	23.1	3.11	12.1
Benzene	ug/L	1	1	47.7	32.9	29.3	28.4	2.14	19.9
Chlorobenzene	ug/L	5	1	3570	3110	4150	761	79.8	284
Toluene	ug/L	5	1	25.0 U	25.0 U	25.0 U	5.00 U	1.00 U	0.358 J

- Notes:
- U -Not detected at the associated reporting limit.
 - J -Estimated concentration.
 - µg/L -Micrograms per liter
 - * - New York State Class GA Groundwater Standard
 - Exceeds New York State Class GA Groundwater Standard
 - 2024 Results

Table 3

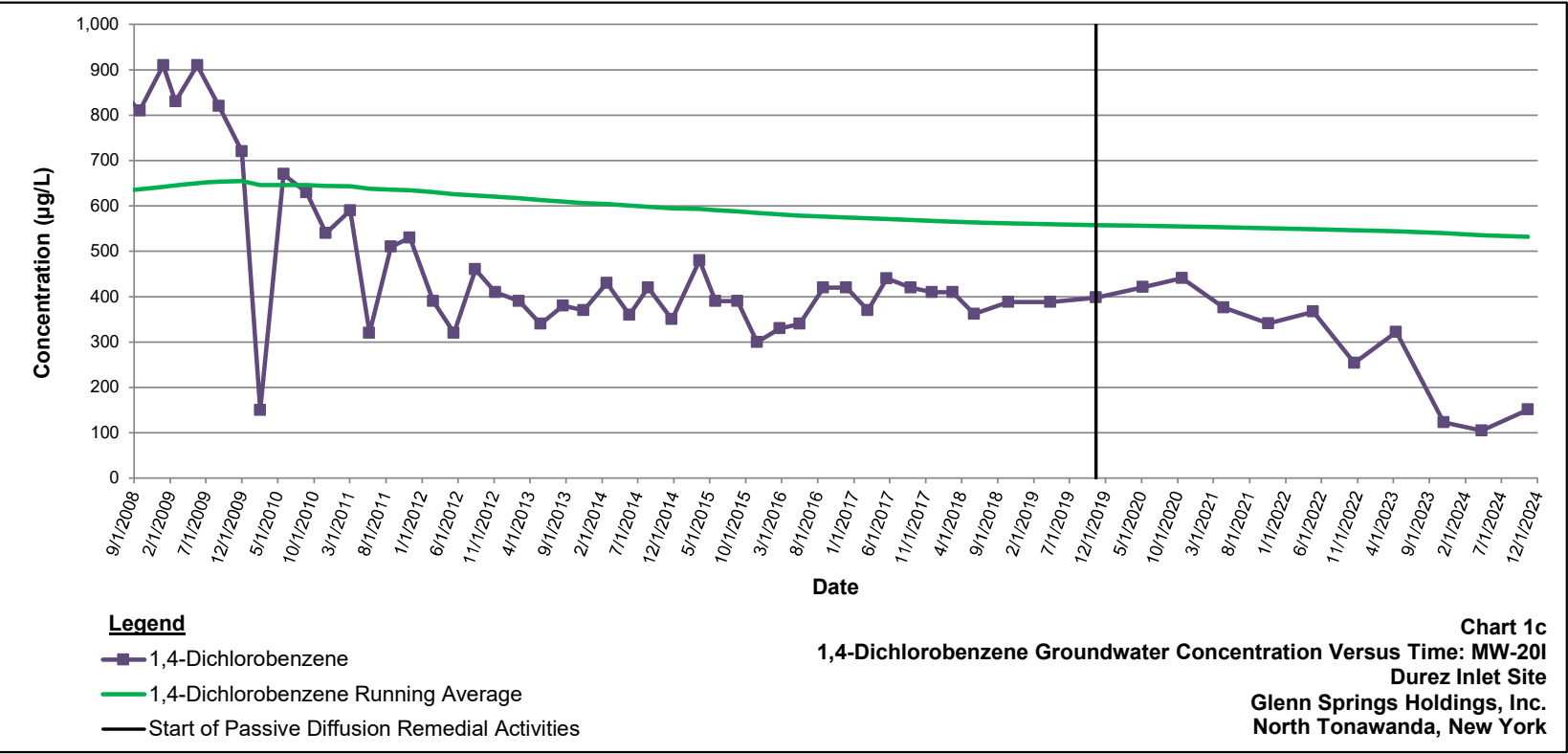
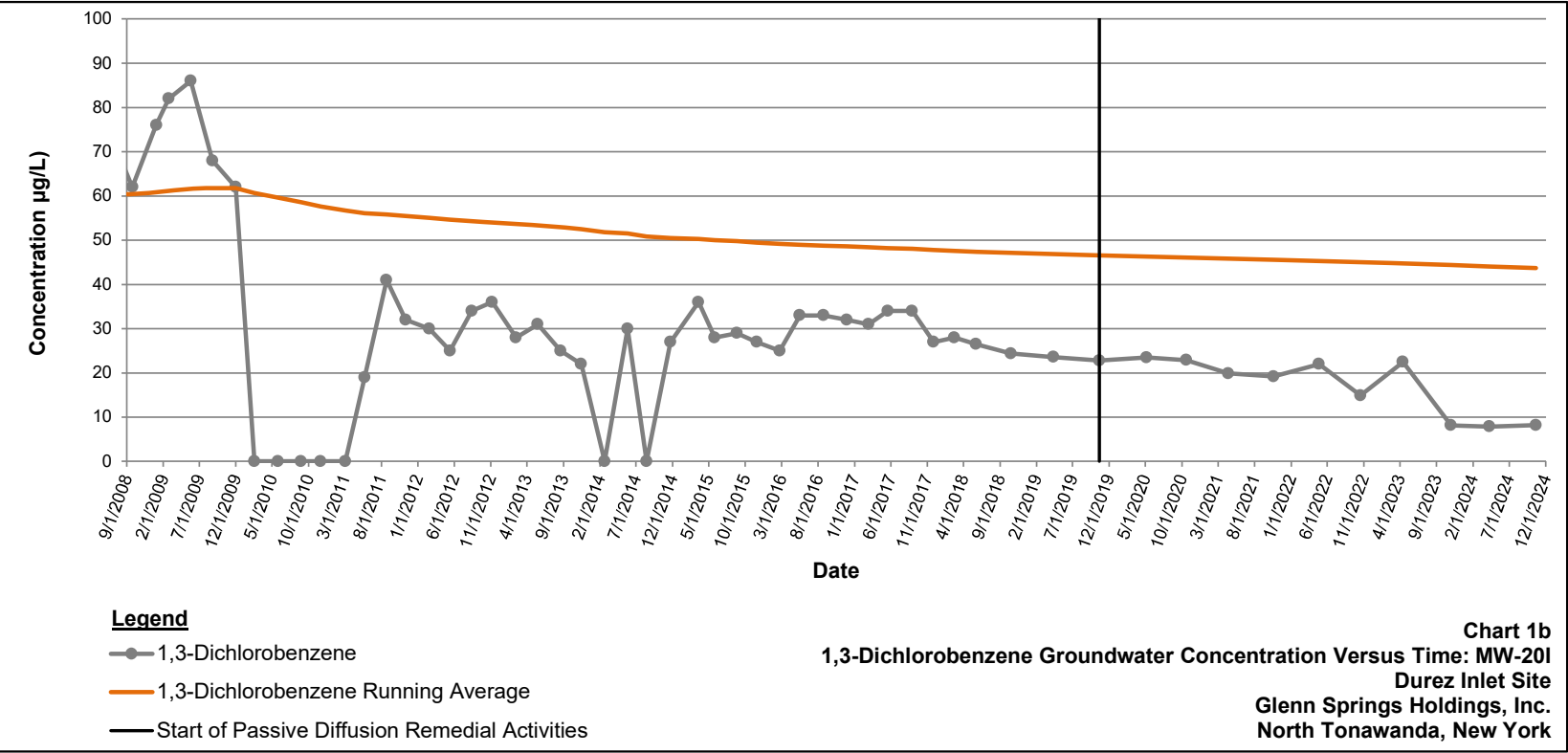
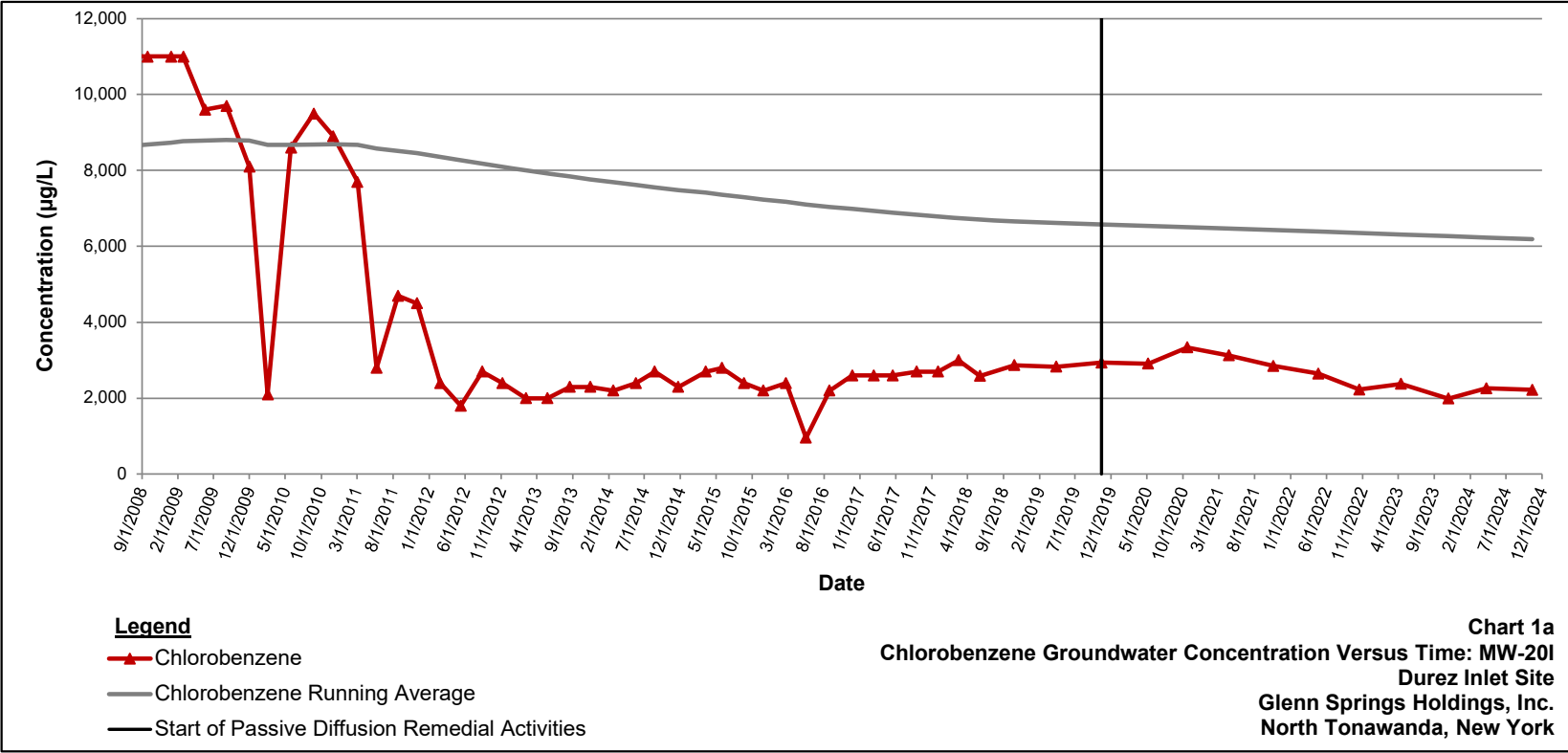
Post-ORC Sock Removal Analytical Results
Durez Inlet Site
North Tonawanda, New York

Sample Location:				MW-20I	MW-20I	MW-20I	MW-22I	MW-22I	MW-22I
Sample ID:				MW-20I-0923	MW-20I-0324	MW-20I-0924	MW-22I-0923	MW-22I-0324	MW-22I-0924
Sample Date:				9/25/2023	3/12/2024	9/19/2024	9/25/2023	3/12/2024	9/19/2024
Compound/Parameter	Units	GW Standard*	Reporting Limit						
1,2,3-Trichlorobenzene	ug/L	5	1	10.0 U	20.0 U	20.0 U	5.00 U	5.00 U	1.00 U
1,2,4-Trichlorobenzene	ug/L	5	1	10.0 U	20.0 U	20.0 U	5.00 U	5.00 U	1.00 U
1,2-Dichlorobenzene	ug/L	3	1	10.0 U	20.0 U	20.0 U	5.00 U	5.00 U	1.00 U
1,3-Dichlorobenzene	ug/L	3	1	10.0 U	20.0 U	20.0 U	5.00 U	5.00 U	2.06
1,4-Dichlorobenzene	ug/L	3	1	74.0	137	113	34.9	17.7	10.7
Benzene	ug/L	1	1	12.9	26.8	33.5	24.3	17.7	22.6
Chlorobenzene	ug/L	5	1	1450	2220	2310	723	400	394
Toluene	ug/L	5	1	10.0 U	20.0 U	20.0 U	5.00 U	5.00 U	1.00 U

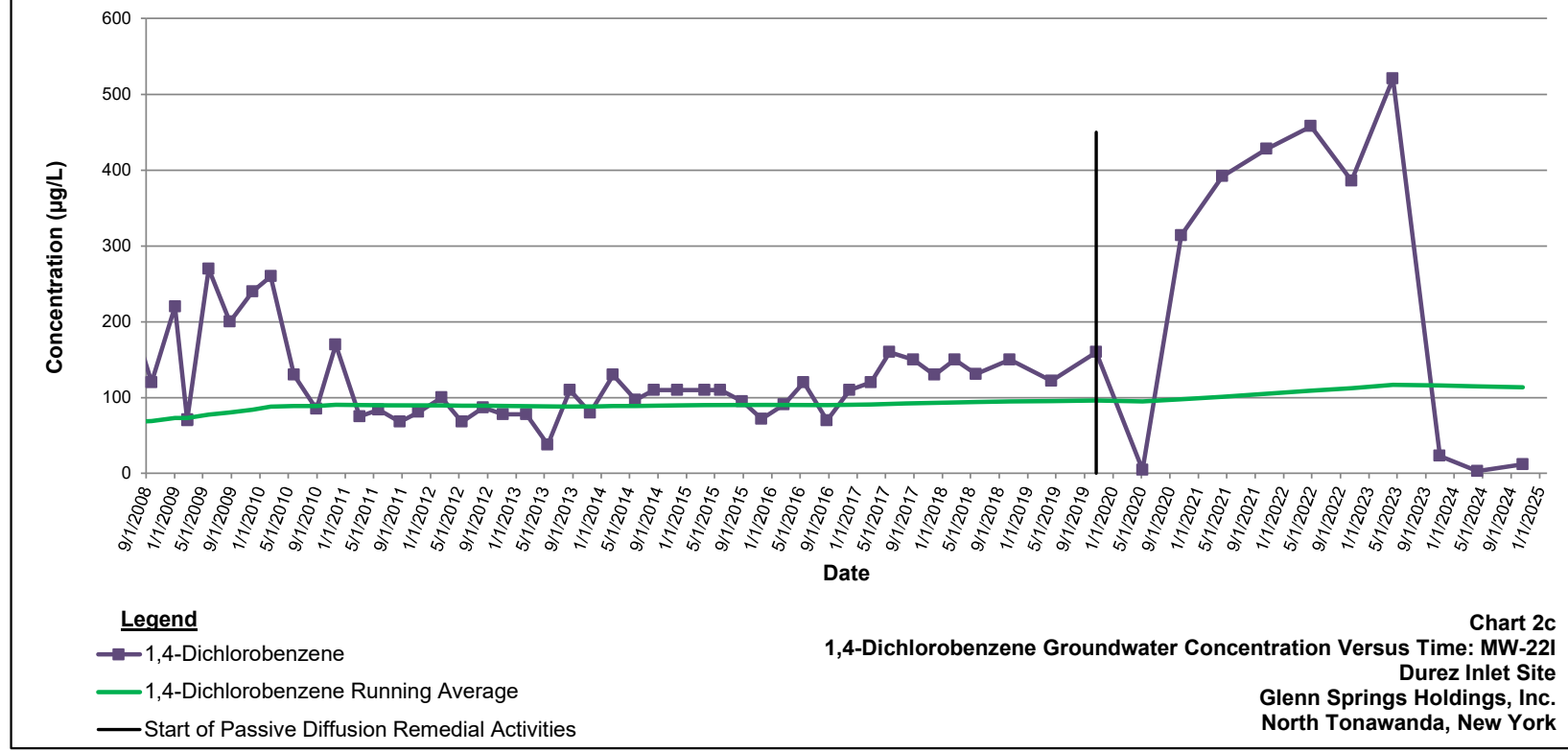
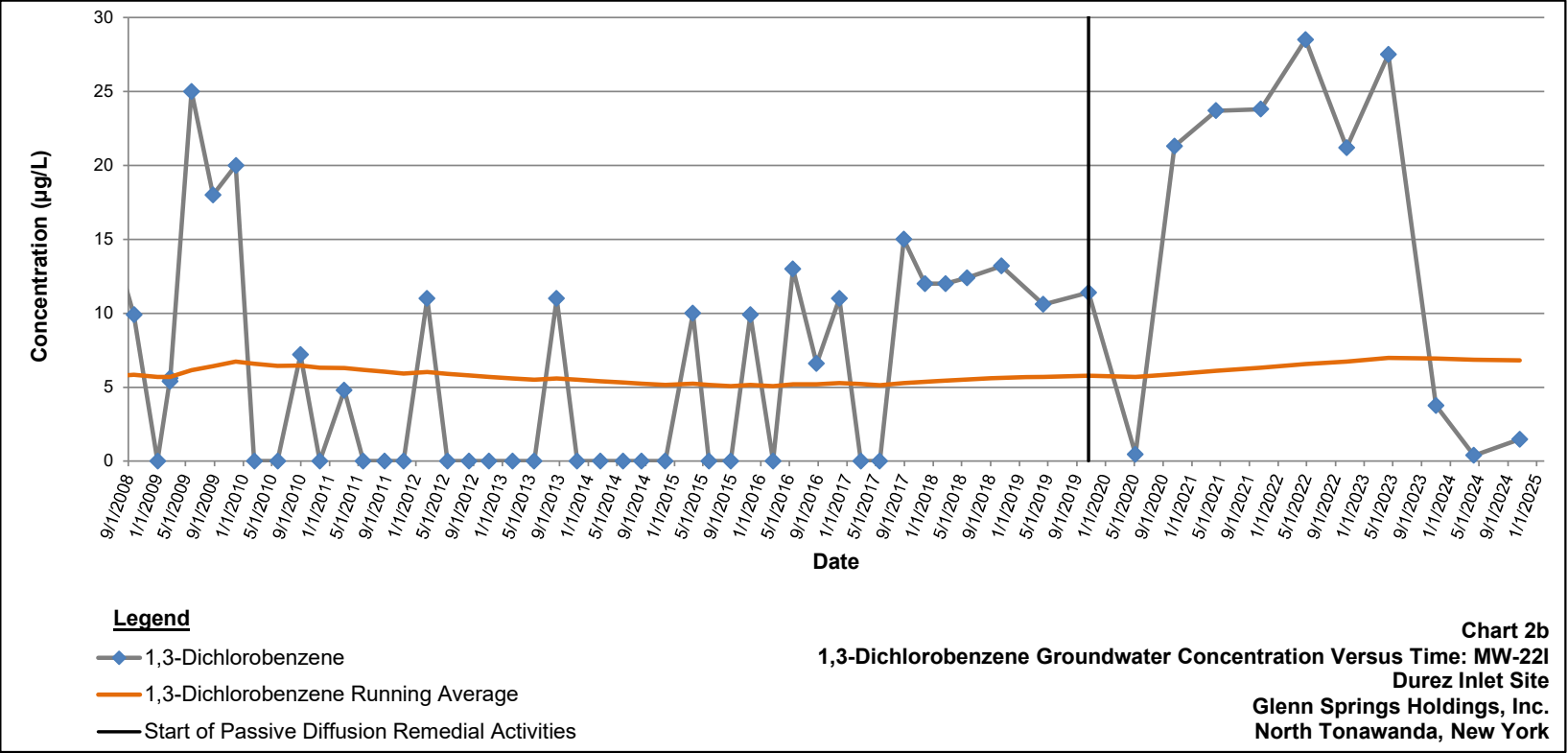
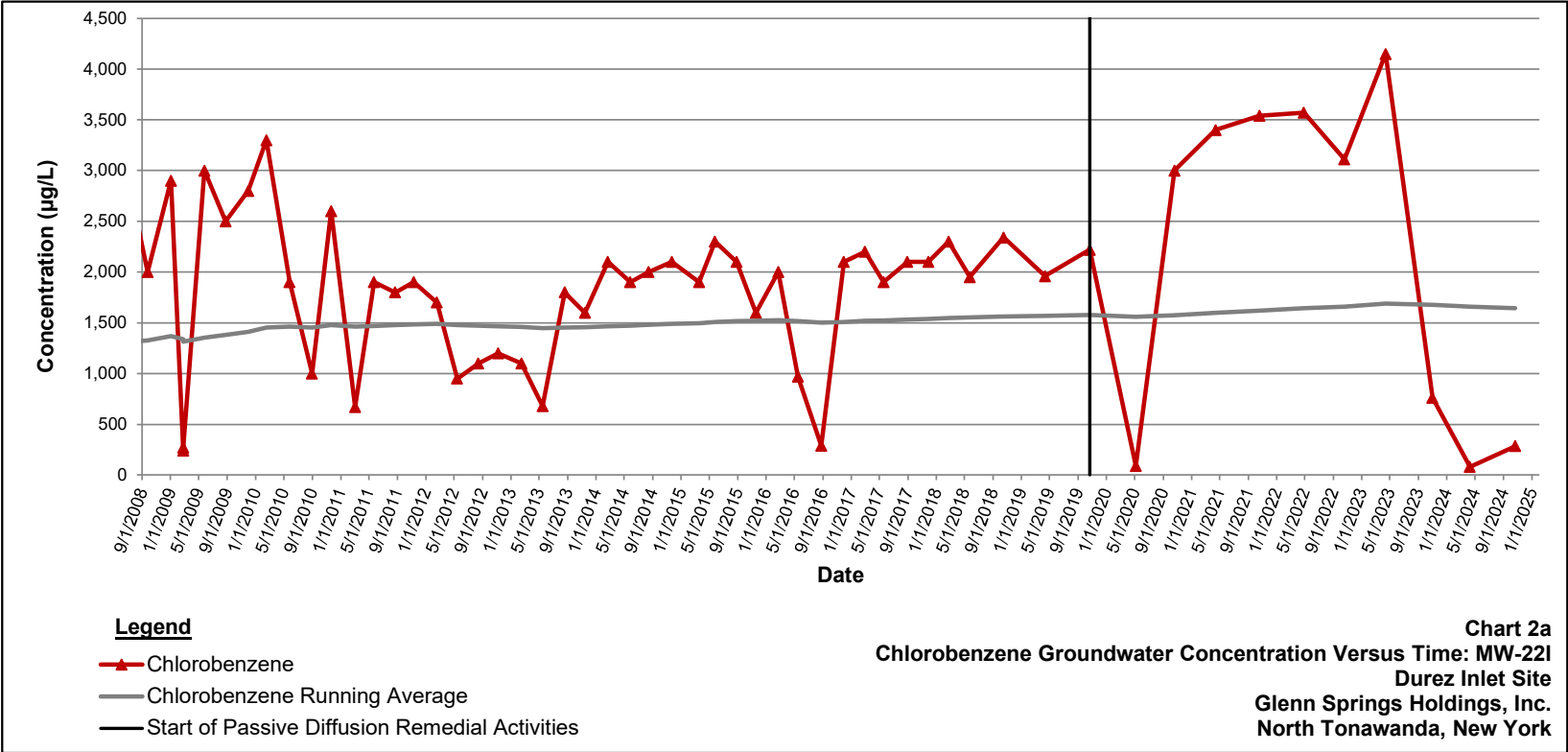
Notes:

- U
- Not detected at the associated reporting limit.
- µg/L
- Micrograms per liter
- *
- New York State Class GA Groundwater Standard
-
- Exceeds New York State Class GA Groundwater Standard

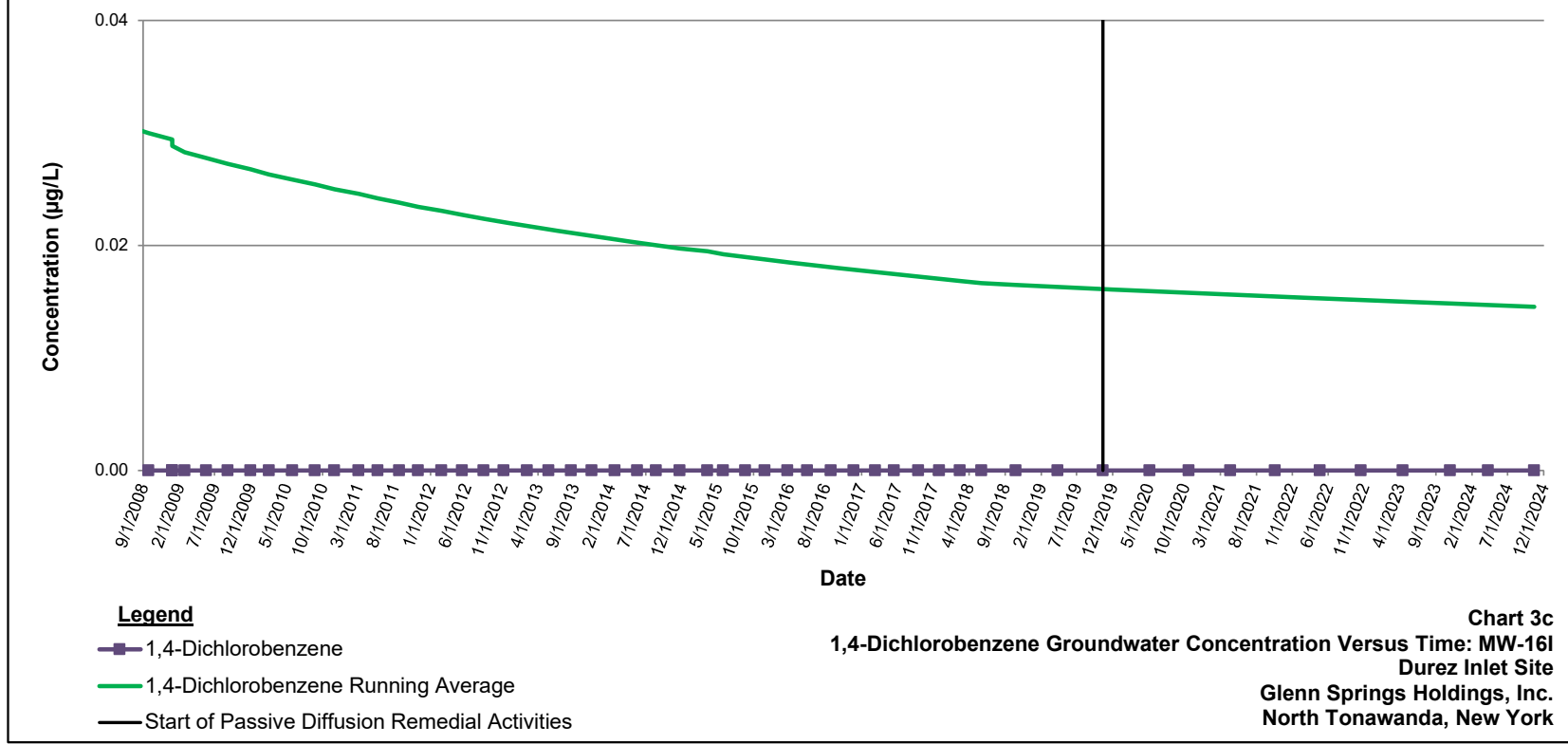
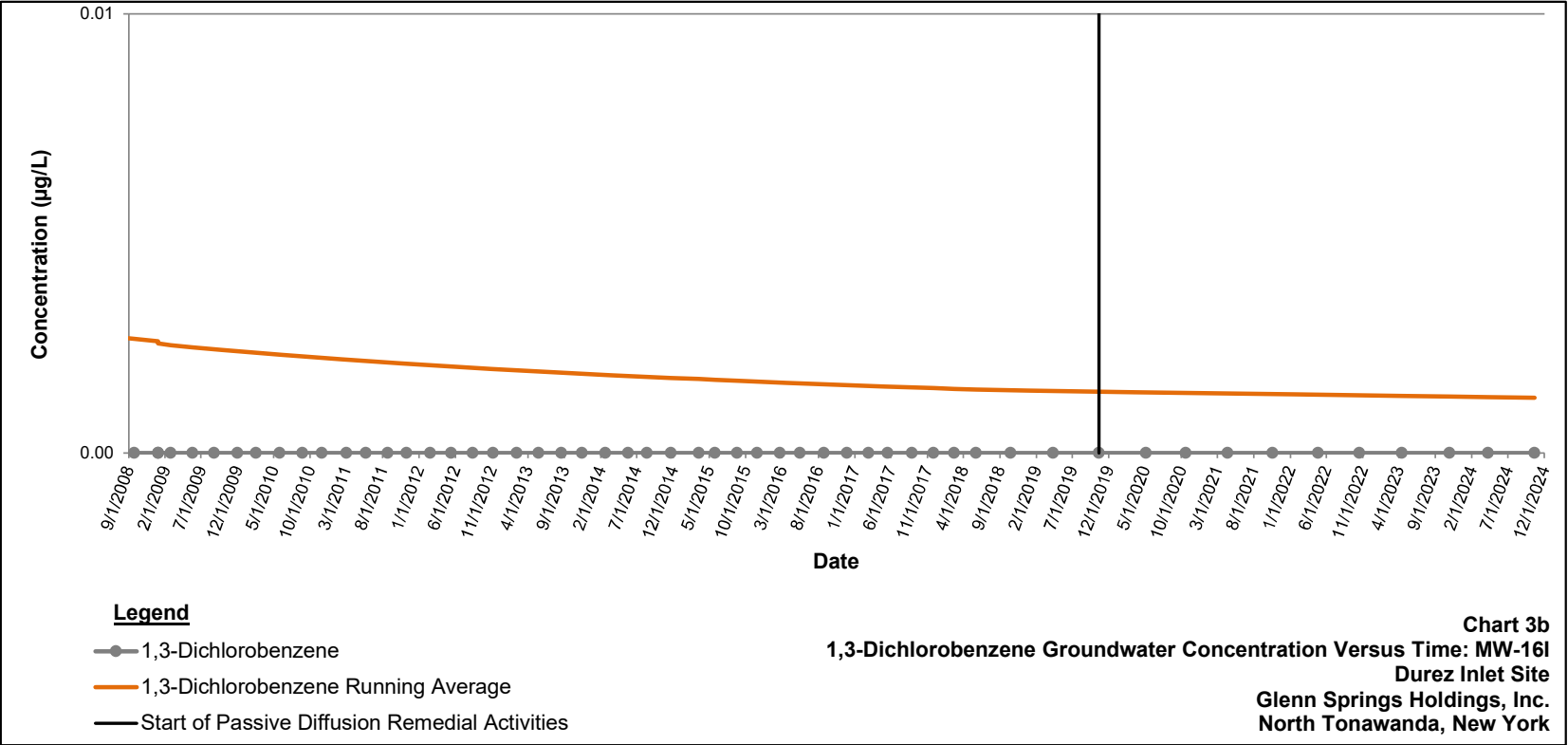
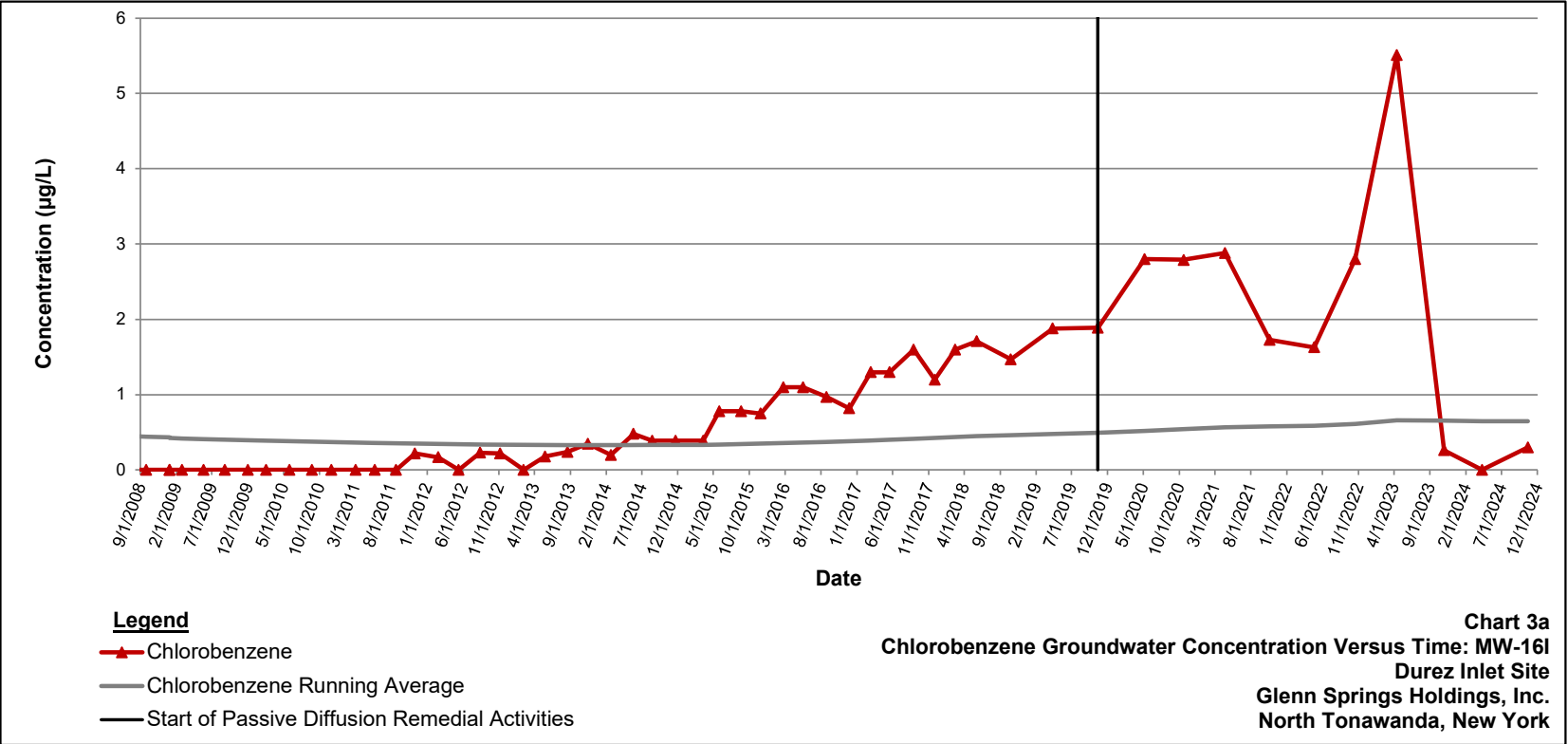
Groundwater Concentration Versus Time: MW-20I
Durez Inlet Site
North Tonawanda, New York



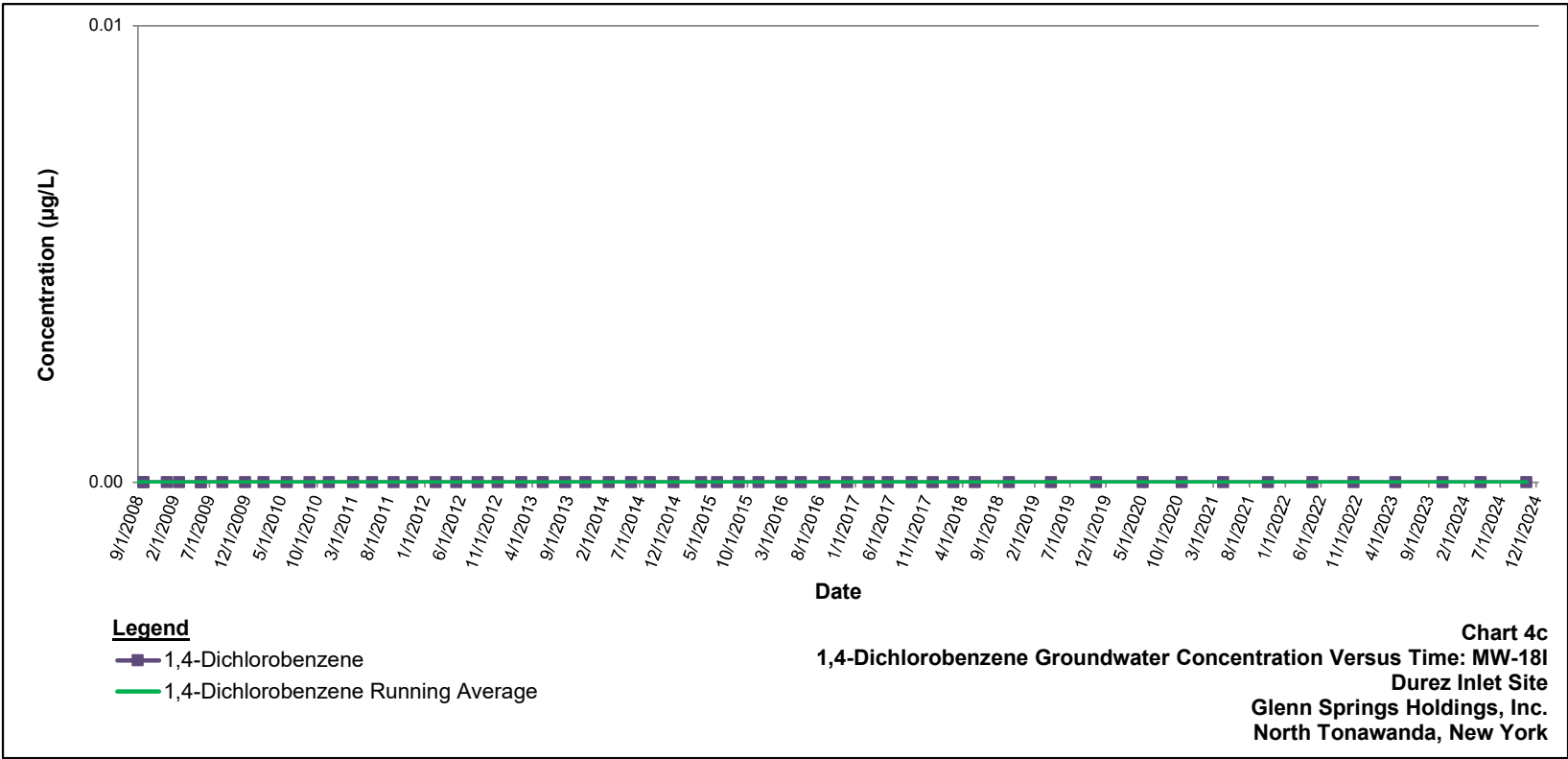
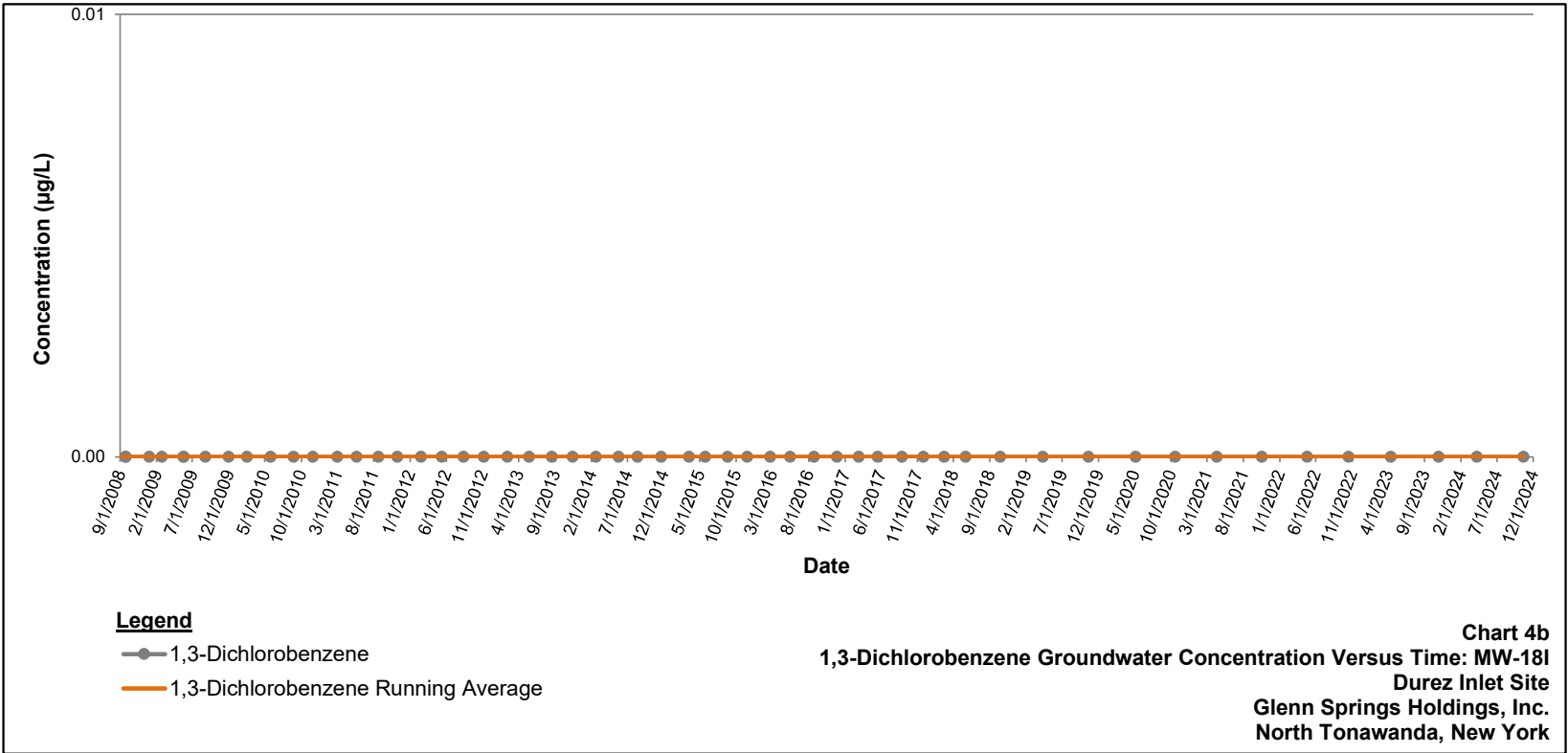
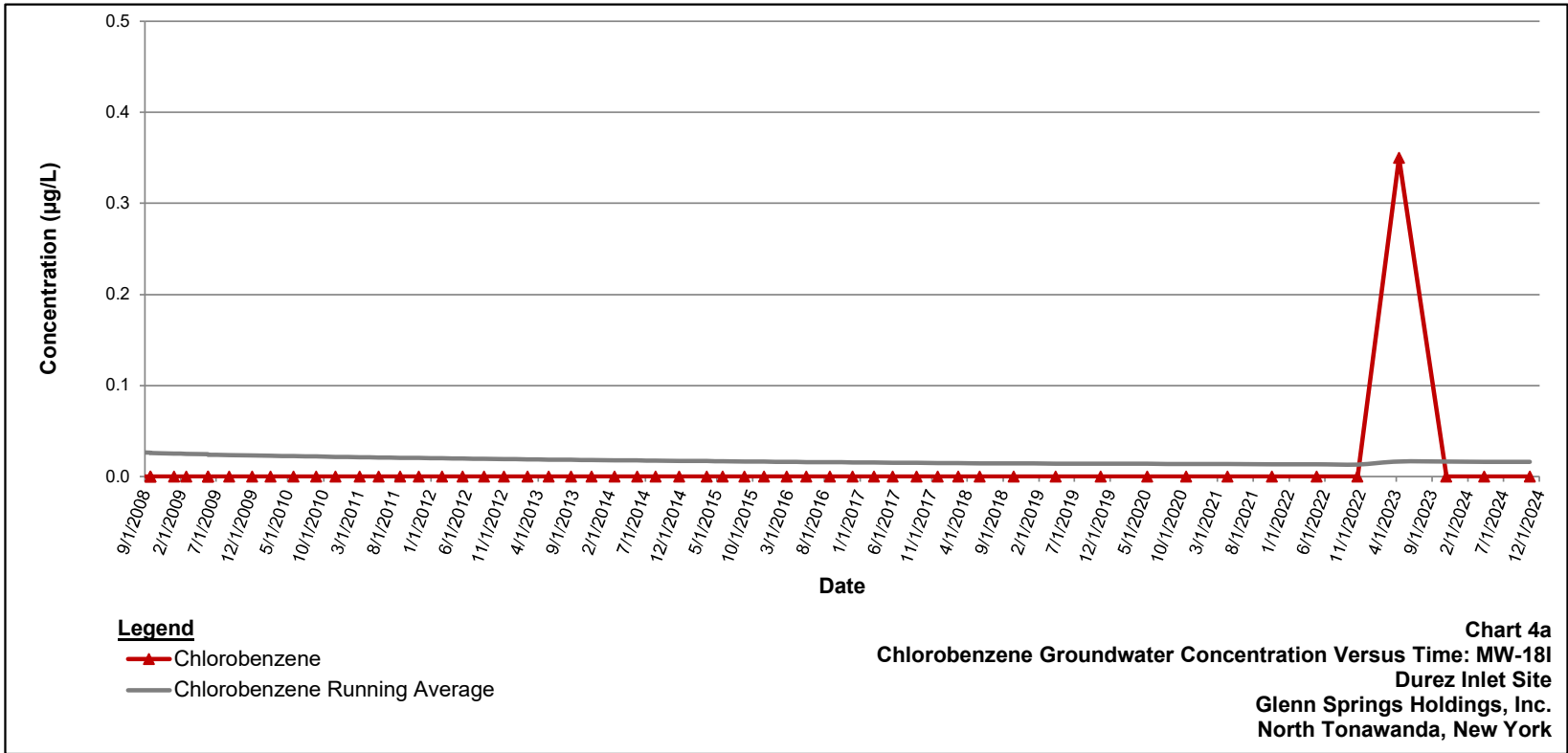
Groundwater Concentration Versus Time: MW-221
Durez Inlet Site
North Tonawanda, New York



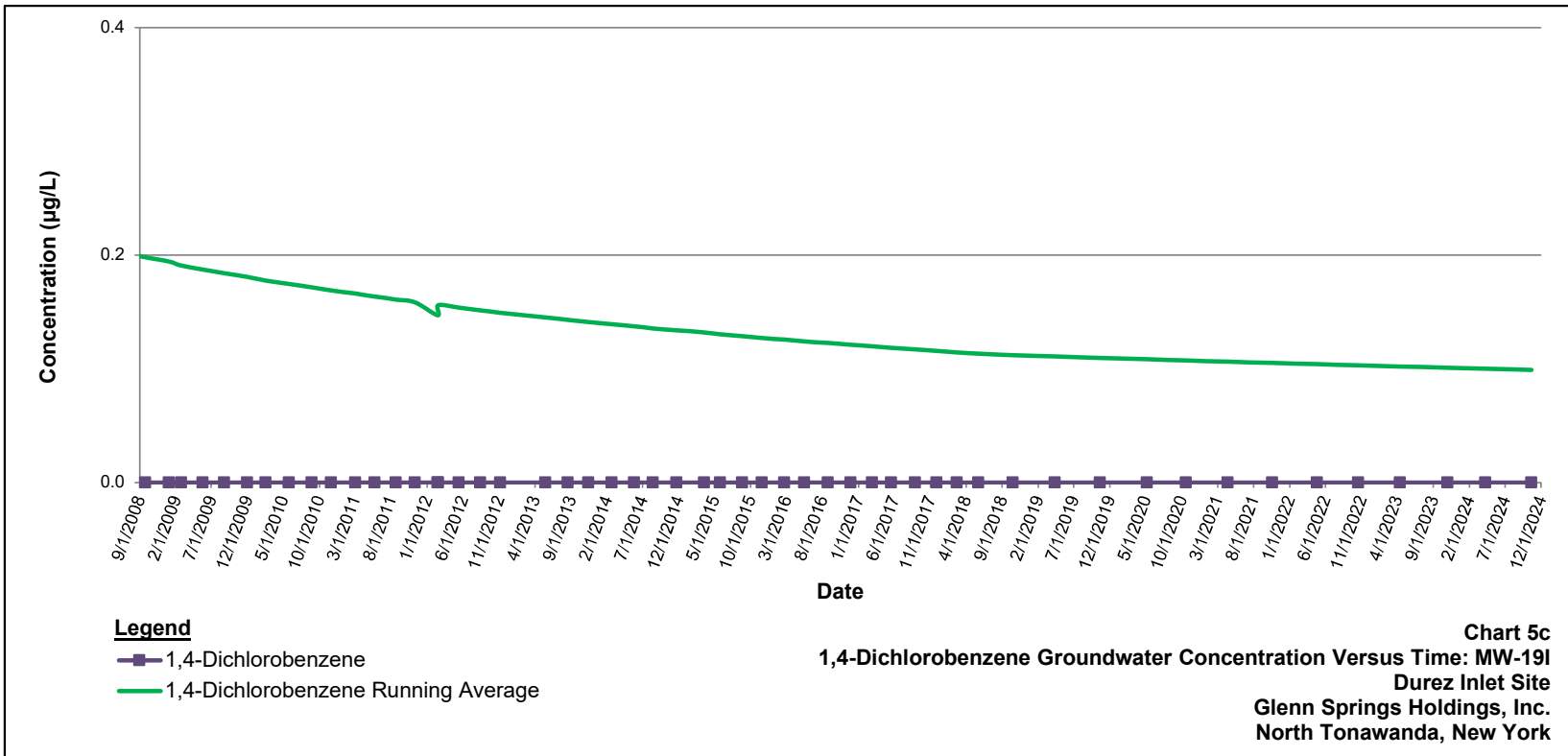
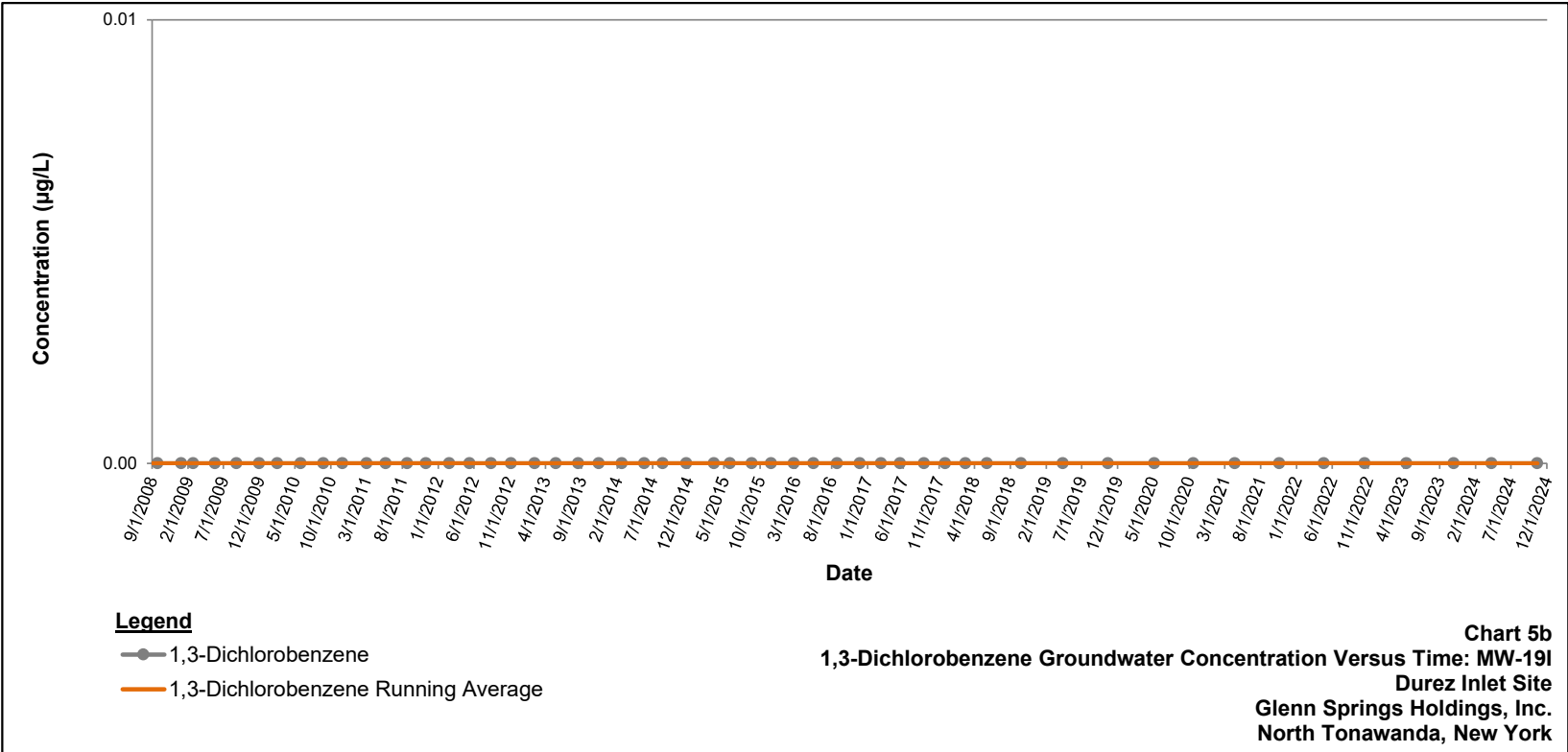
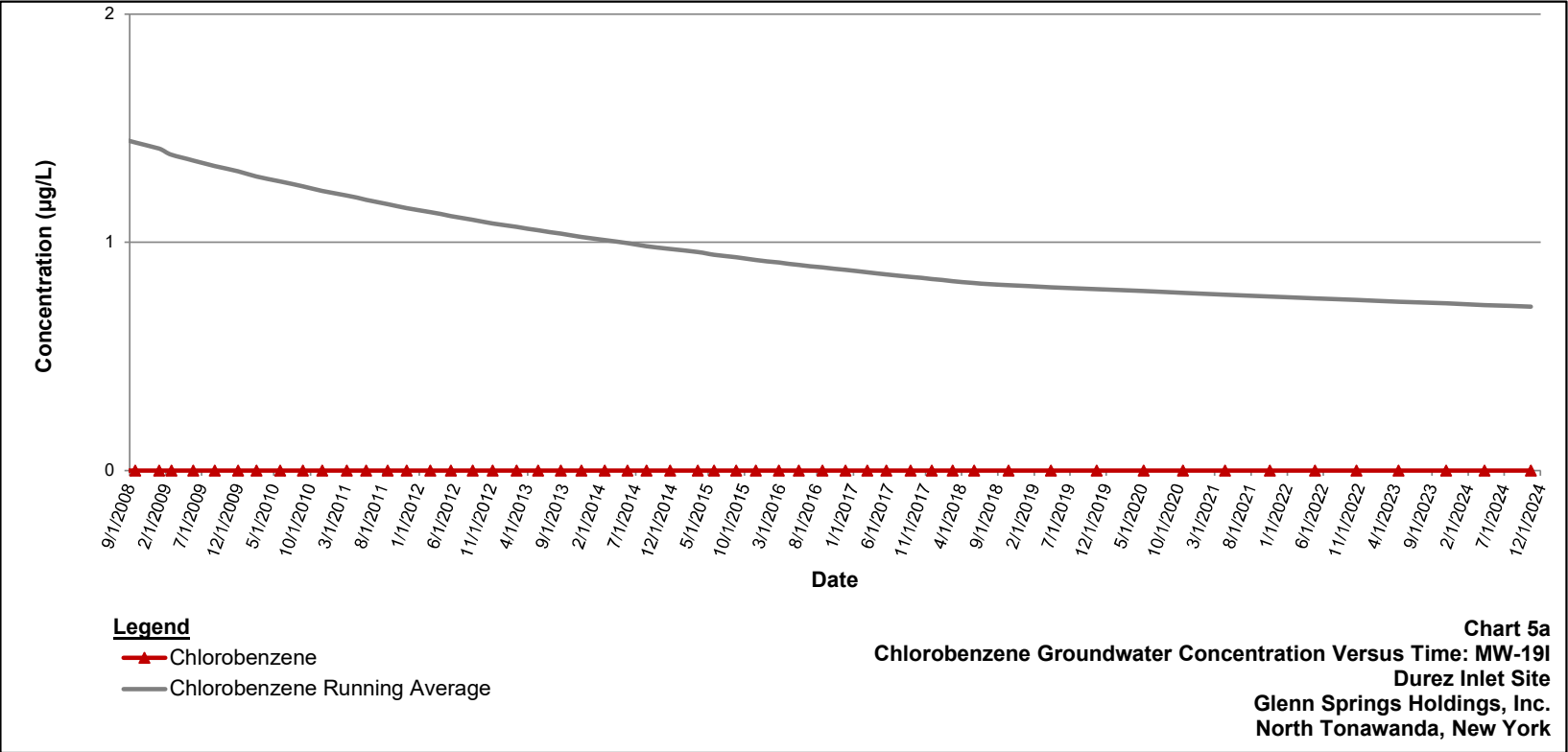
Groundwater Concentration Versus Time: MW-16I
Durez Inlet Site
North Tonawanda, New York



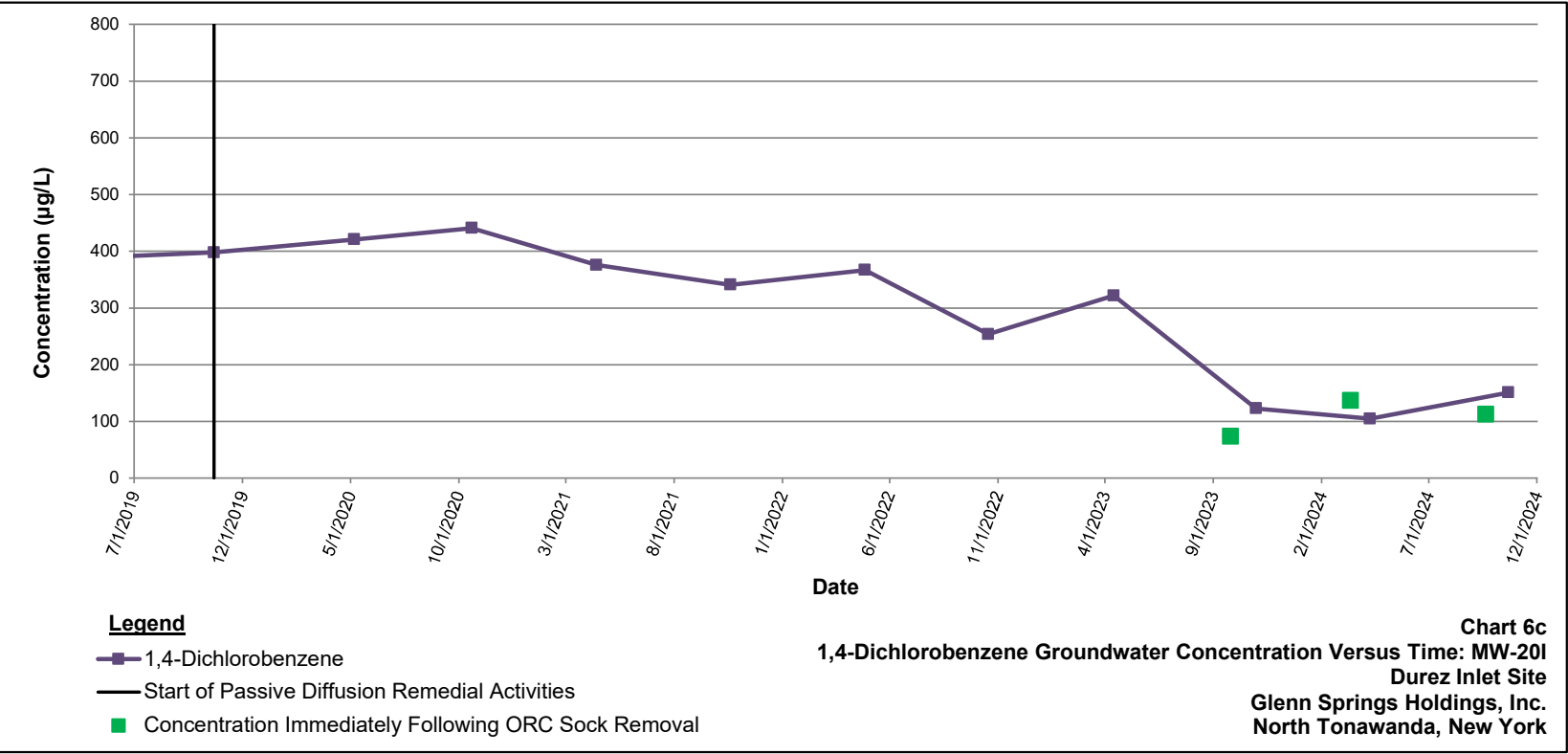
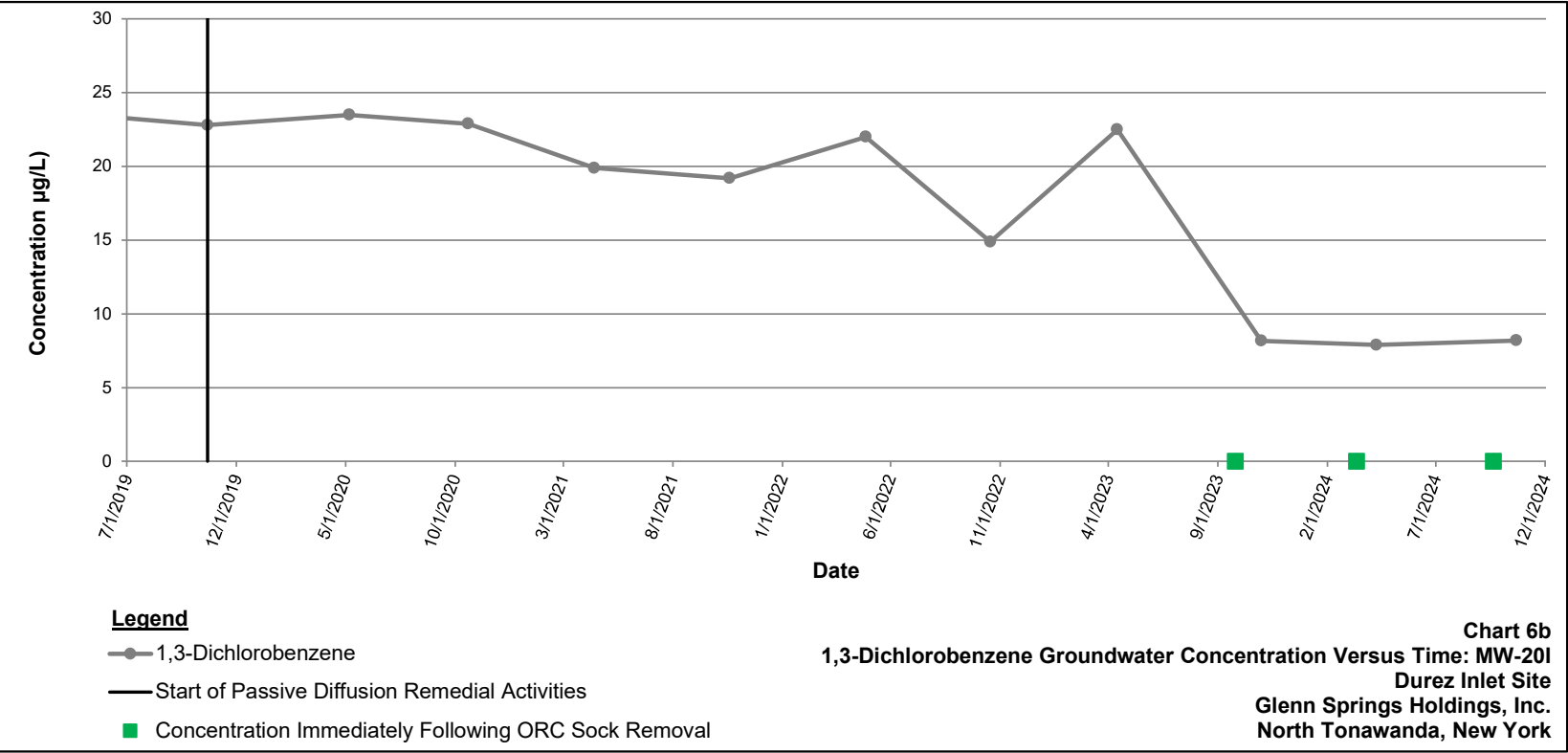
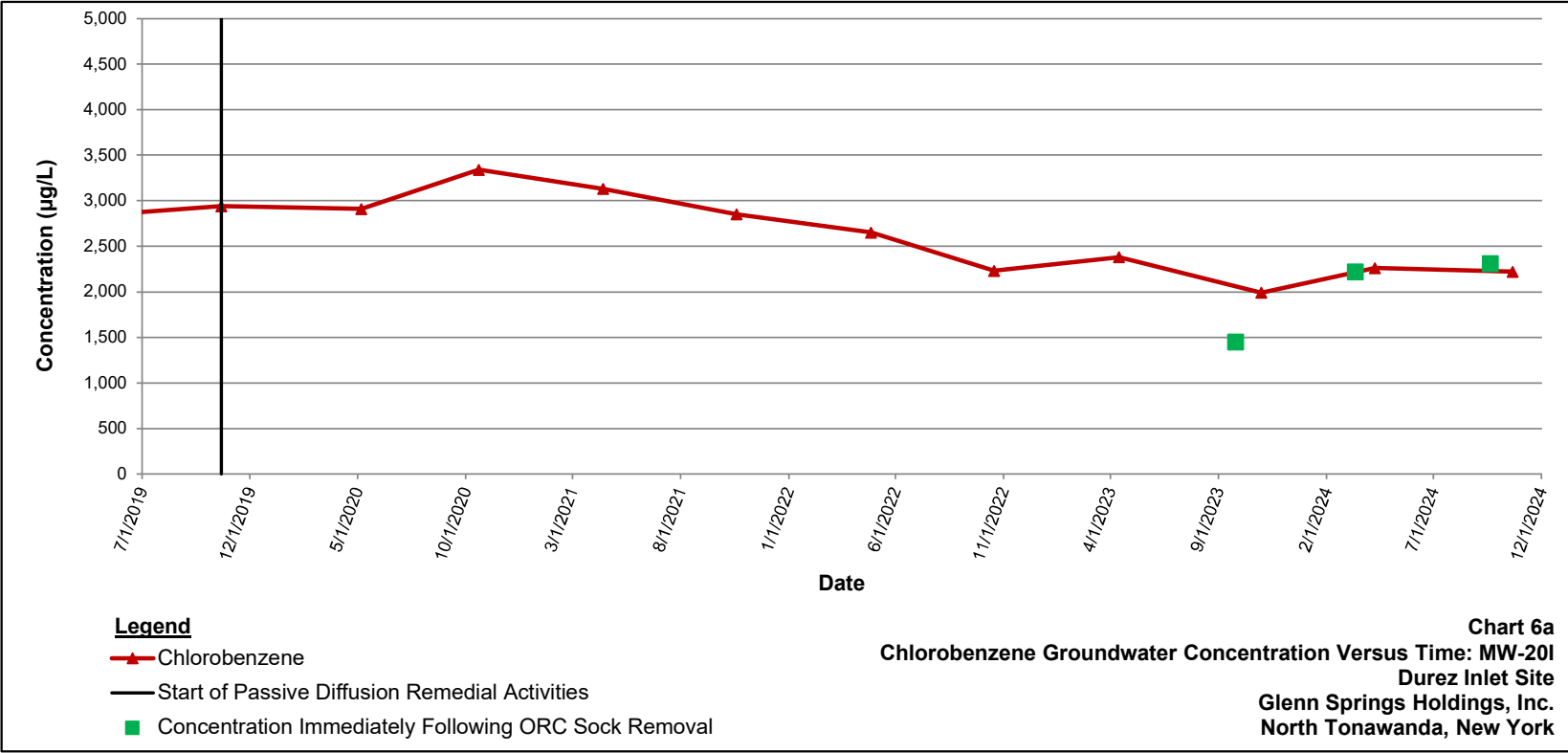
Groundwater Concentration Versus Time: MW-181
Durez Inlet Site
North Tonawanda, New York



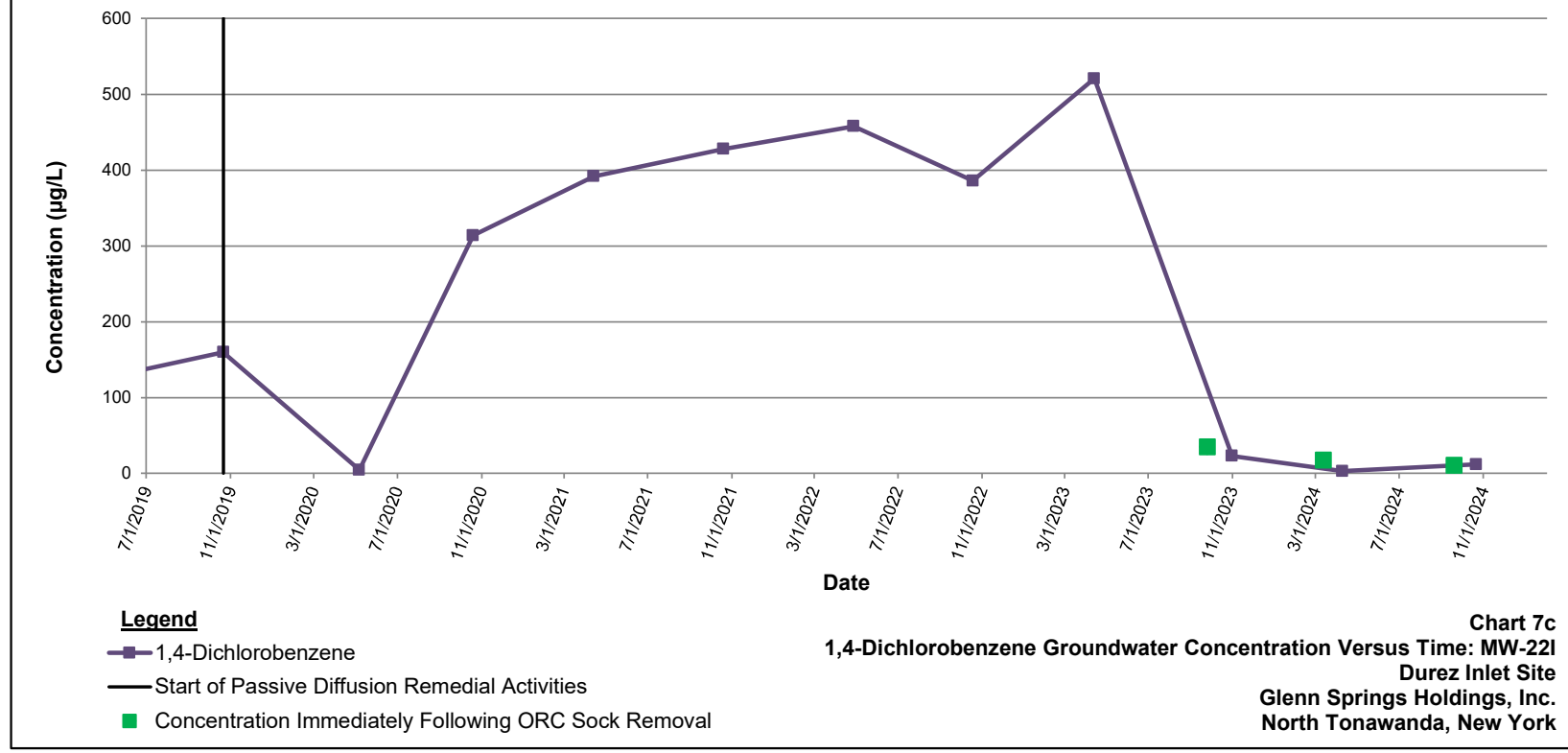
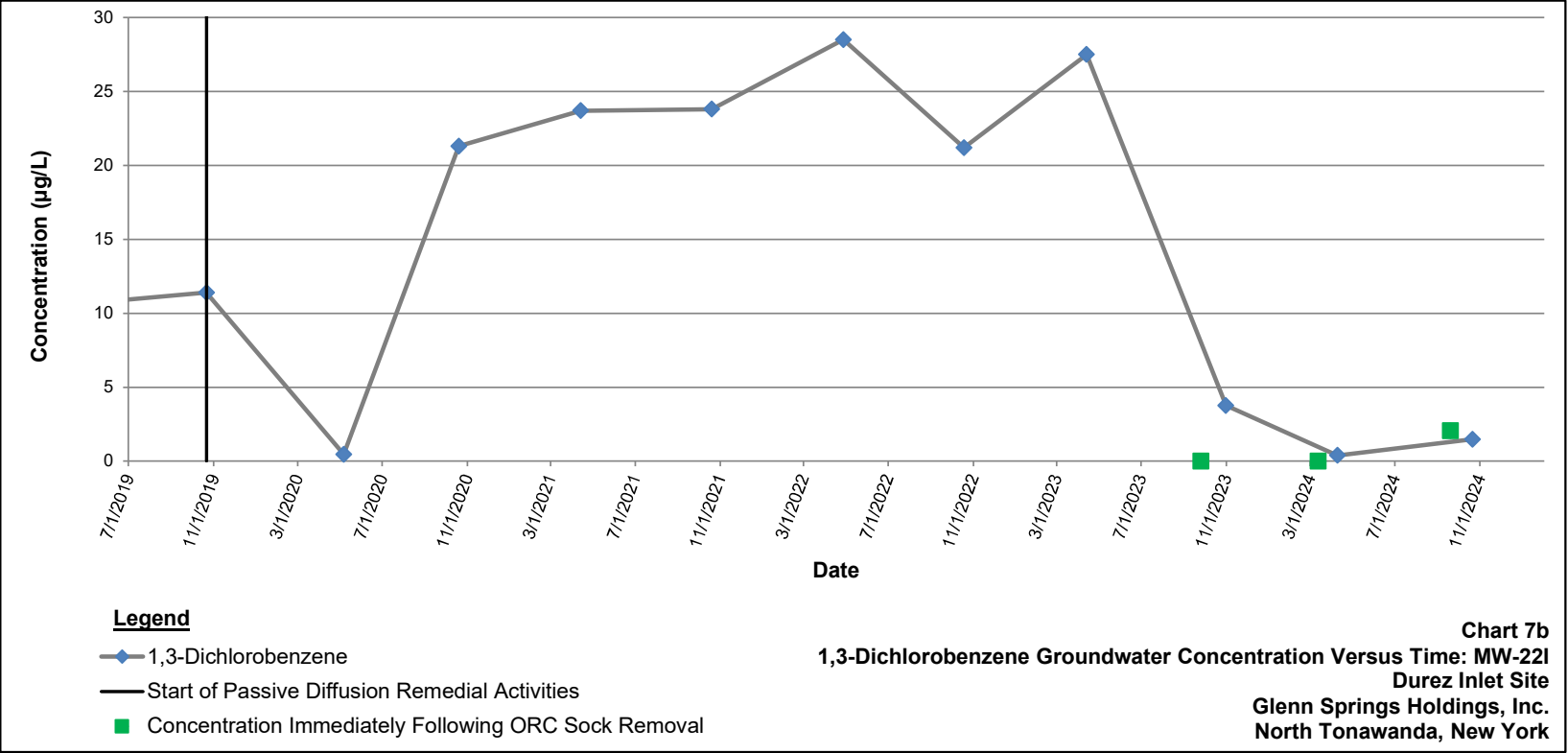
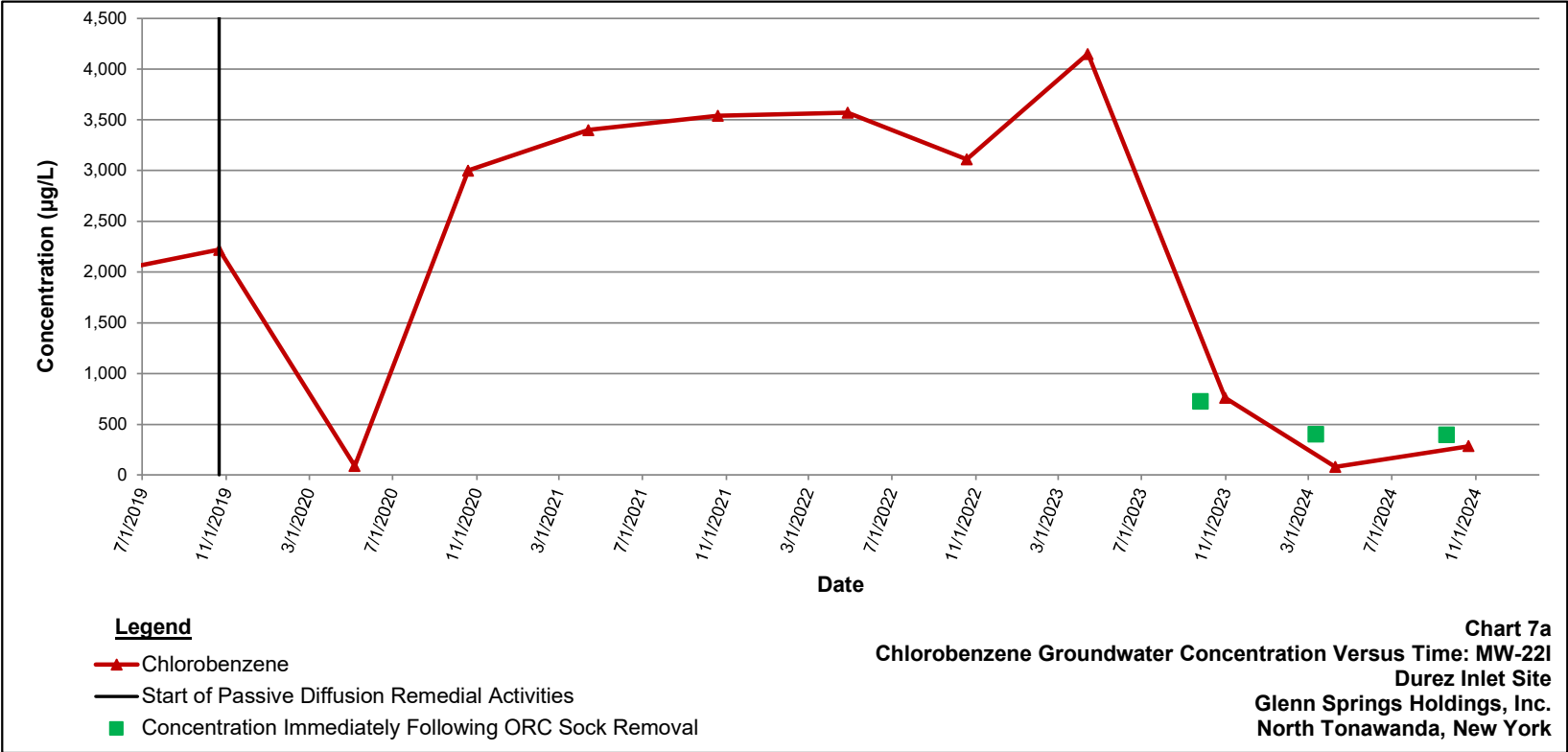
Groundwater Concentration Versus Time: MW-19I
Durez Inlet Site
North Tonawanda, New York



Groundwater Concentration Versus Time: MW-20I
Durez Inlet Site
North Tonawanda, New York



Groundwater Concentration Versus Time: MW-22I
Durez Inlet Site
North Tonawanda, New York



Appendix F

Monitoring Well Low-Flow Purge Records

MS/MSD

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-16A-410

Well Data: Well No.: MW-16I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): 31.60

Date: 4/9/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.79
Start Purge Time: 0951

[illegible]

Sample ID: MW-16I-0424

Sample Time: 1015

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- (2) The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_a = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- (5) For conductivity, the average value of three readings $\pm 3\%$

Shawn Hardner

DUP

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-16A-410
Well Data: Well No.: MW-18I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): 34.65

Date: 4/9/2024
Personal: S GARDNER
Well Diameter, D (cm/in): _____
Initial Depth to Water (m/ft): 8.13
Start Purge Time: 0856

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
0910	100	8.16	0.03	14.44	1.02	30.2	0.90	7.30	-38
0915	100	8.16	0.03	14.06	1.02	22.8	0.72	7.28	-48
0920		8.17	0.04	13.75	1.03	11.0	0.67	7.28	-53
0925	100	8.17	0.04	13.60	1.02	6.44	0.64	7.28	-56

Sample ID: MW-18I-0424

Sample Time: 0930

Notes: BLIND DUPLICATE - MW-9I-0424

TIME - 0930

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm.
For Imperial units, $V_s = n \cdot (r^2) \cdot L (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

Shawn Gardner

Monitoring Well Record for Low-Flow Purging

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GWProject Number: TRIOAS-10A-410Well Data: Well No.: MW-19I

Constructed Well Depth (m/ft): _____

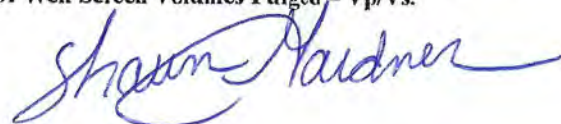
Measured Well Depth (m/ft): 35.48Date: 4/9/2024Personal: S. GARDNERWell Diameter, D (cm/in): 2Initial Depth to Water (m/ft): 7.21Start Purge Time: 0757

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
0805	100	7.26	0.05	12.42	1.13	1.2	1.80	6.99	173
0810	108	7.26	0.05	11.69	1.17	0.87	1.15	7.22	136
0815	108	7.26	0.05	11.56	1.16	0.62	1.00	7.28	127
0820		7.26	0.05	11.64	1.14	0.49	0.97	7.32	119
0825		7.26	0.05	11.66	1.12	0.43	0.94	7.32	119
0830	108	7.26	0.05	11.70	1.11	0.47	0.99	7.32	116

Sample ID: MW-19I-042ASample Time: 0835

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_s = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches.
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$



2 of 2

Project Data:

Project Name: DUREZ INLET SEMI-ANNUAL GW

Date: 4/9/2024

Project Number: TR1045-16A-410

Personal: S GARDNER

Well Data:

Well No.: MW-20I

Well Diameter, D (cm/in): 2"

Constructed Well Depth (m/ft):

Initial Depth to Water (m/ft):

Measured Well Depth (m/ft): 33.45

Start Purge Time:

[illegible]

Sample ID: MW-20I-0424

Sample Time: 1305

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- (2) The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm.
For Imperial units, $V_a = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- (5) For conductivity, the average value of three readings $\pm 3\%$

Shaun Gardner

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-110A-410
Well Data: Well No.: MW-20I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): 33.45

Date: 4/9/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.19
Start Purge Time: 1143

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
1148	96	7.42	0.23	18.42	8.73	116	31.13	12.65	-42
1153	96	7.43	0.24	17.92	8.74	173	26.42	12.74	-41
1158	96	7.43	0.24	17.52	7.93	190	20.47	12.75	-45
1203		7.43	0.24	17.44	6.63	158	10.22	12.70	-57
1208	96	7.43	0.24	17.47	6.13	89.3	6.19	12.55	-88
1213		7.43	0.24	17.55	5.87	56.7	4.66	12.42	-102
1218	96	7.43	0.24	17.63	5.61	37.1	4.60	12.22	-111
1223	96	7.43	0.24	17.73	5.35	27.0	2.81	12.20	-121
1228		7.43	0.24	17.84	5.26	20.1	2.91	12.12	-128
1233	96	7.43	0.24	17.95	5.10	15.3	2.98	12.11	-134
1238		7.43	0.24	18.08	5.86	14.6	8.85	12.32	-132
1243	96	7.43	0.24	18.20	5.73	14.2	8.65	12.35	-116
1248	96	7.43	0.24	18.28	6.05	12.4	11.15	12.39	-111

Sample ID: MW-20I-042A

Sample Time: _____

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_a = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

Monitoring Well Record for Low-Flow Purging

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TRIGAS-16A-410
Well Data: Well No.: MW-22I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): 31.21

Date: 4/9/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.09
Start Purge Time: 1042

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
1049	100	7.75	0.66	15.39	4.39	35.4	32.20	12.51	-41
1054	100	7.97	0.88	14.54	4.48	23.8	33.45	12.58	-36
1059		8.06	0.97	14.26	4.49	17.9	33.99	12.57	-34
1104		8.12	1.03	14.64	4.45	17.3	33.12	12.55	-32
1109	100	8.16	1.07	14.49	4.45	15.3	33.66	12.56	-32

Sample ID: MW-22I-0424

Sample Time: 1115

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm.
For Imperial units, $V_s = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

Shawn Gardner

Monitoring Well Record for Low-Flow Purging

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-23A-410
Well Data: Well No.: MW-18I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
RUNNING 0.1

Date: 10/21/2024
Personal: 8 GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 8.11
Start Purge Time: 0806

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
0812	100	8.17	0.06	18.85	1.08	9.89	3.11	6.46	-73
0817	100	8.17	0.06	18.24	1.09	6.93	1.20	6.49	-118
0822		8.17	0.06	17.71	1.09	5.19	1.01	6.68	-116
0827		8.17	0.06	17.29	1.10	4.00	0.85	6.74	-118
0832	100	8.17	0.06	17.00	1.10	2.44	0.84	6.79	-121
0837	100	8.17	0.06	16.85	1.10	2.72	0.81	6.81	-123

Sample ID: MW-18I-1024

Sample Time: 0840

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_s = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings ±3%

Sham Gardner

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-23A-410
Well Data: Well No.: MW-19I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
RUNNING 0.2

Date: 10/21/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 6.96
Start Purge Time: 0855

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
0900	120	7.00	0.04	16.93	1.03	2.38	3.33	7.31	-8
0905	120	7.00	0.04	17.00	1.05	2.41	1.42	7.34	-44
0910		7.00	0.04	17.03	1.11	2.12	1.13	7.37	-57
0915	120	7.00	0.04	17.11	1.15	2.02	0.79	7.41	-39
0920		7.00	0.04	17.12	1.16	1.44	0.75	7.43	-26
0925	120	7.00	0.04	17.09	1.15	1.68	0.67	7.44	-15
0930	120	7.00	0.04	17.03	1.15	1.54	0.73	7.43	-7
0935		7.00	0.04	16.96	1.14	1.40	0.67	7.43	-4

Sample ID: MW-19I-1024

Sample Time: 0940

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_s = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

DUP

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-23A-410
Well Data: Well No.: MW-16I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
RUNNING 8.0

Date: 10/21/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.77
Start Purge Time: 1003

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
1010	96	8.28	0.51	17.47	0.745	10.4	6.41	8.66	56
1015	96	8.34	0.57	17.46	0.751	9.30	4.90	9.14	49
1020		8.39	0.62	17.38	0.783	12.5	3.47	9.69	45
1025	96	8.40	0.63	17.30	0.879	22.0	2.33	10.27	-10
1030		8.42	0.65	17.30	0.965	18.3	2.27	10.68	-68
1035	96	8.44	0.67	17.24	0.996	12.7	2.35	10.79	-86
1040		8.45	0.68	17.23	1.00	11.7	2.25	10.80	-91
1045	96	8.45	0.68	17.20	1.00	9.17	2.31	10.77	-97

Sample ID: MW-16I-1024

Sample Time: 1050

Notes: BLIND DUPLICATE - MW-9I-1024

TIME 1050

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_s = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_s = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches.
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

Shawn Gardner

Project Data: Project Name: DUREZ INLET SEMI-ANNUAL GW
Project Number: TR1045-23A-410
Well Data: Well No.: MW-20I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
RUNNING 0.1

Date: 10/21/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.18
Start Purge Time: 1108

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ : ±3%	±3%	±3%	±10%	±10%	±0.1	±10
1114	100	7.33	0.15	18.50	7.13	149	23.68	12.48	-330
1119	110	7.34	0.16	18.24	7.47	229	23.30	12.57	-334
1124	110	7.34	0.16	18.02	6.88	289	17.80	12.55	-86
1129		7.34	0.16	18.01	6.31	205	11.11	12.43	-104
1134		7.34	0.16	17.92	6.09	108	8.67	12.31	-122
1139	110	7.34	0.16	18.18	5.79	50.9	6.80	12.13	-139
1144	110	7.34	0.16	18.40	5.64	42.4	3.33	11.95	-158
1149		7.34	0.16	18.53	5.39	34.7	2.51	11.85	-171
1154	110	7.34	0.16	18.55	5.22	33.7	2.06	11.78	-177
1159	110	7.34	0.16	18.56	5.05	29.7	1.80	11.74	-179
1204		7.34	0.16	18.59	4.81	24.4	1.62	11.71	-178
1209	110	7.34	0.16	18.56	4.72	23.2	1.95	11.72	-173
1214	110	7.34	0.16	18.51	4.67	22.8	2.01	11.75	-171

Sample ID: MW-20I-1024

Sample Time: _____

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_a = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings ±3%

[Signature]

Project Data: Project Name: DUREZ INLET SEMI ANNUAL GW
Project Number: TR1045-23A-410

Well Data: Well No.: MW-20I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____

Date: 10/21/2024
 Personal: S GARDNER
 Well Diameter, D (cm/in): 2"
 Initial Depth to Water (m/ft): _____
 Start Purge Time: _____

[illegible]

Sample ID: MW-20I-1024

Sample Time: 1225

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- (2) The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_a = n \cdot (r^2) \cdot L(2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- (5) For conductivity, the average value of three readings $\pm 3\%$

Il Screen Volumes Purged= V_p/V_s .

Monitoring Well Record for Low-Flow Purging

Project Data: Project Name: DUREZ INLET SEMI ANNUAL GW
Project Number: TR1045-23A-410
Well Data: Well No.: MW-22I
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____

Date: 10/21/2024
Personal: S GARDNER
Well Diameter, D (cm/in): 2"
Initial Depth to Water (m/ft): 7.00
Start Purge Time: 1238

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (Units)	ORP (mV)
			Precision regular ⁽⁵⁾ :	±3%	±3%	±10%	±10%	±0.1	±10
1245	100	8.01	1.01	19.95	6.50	8.80	26.11	12.56	-82
1250	100	8.25	1.25	19.60	6.54	8.40	25.21	12.58	-80
1255		8.40	1.40	19.70	6.52	8.11	24.58	12.59	-75

Sample ID: MW-22I-1024

Sample Time: 1300

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2ft) above any sediment accumulated at the well bottom.
- The wall screen volume will be based on a 1.52 m (5ft) screen length (L). For metric units $V_a = n \cdot (r^2) \cdot L$ in mL, where $(r=D/2)$ and L are in cm. For Imperial units, $V_a = n \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3ft). The pumping rate should not exceed 500 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings $\pm 3\%$

Sham Gardner