Periodic Review Report

(Reporting Period March 28, 2020 to March 28, 2023)

Former Orangeburg Pipe Manufacturing – Lowe's Site

Tax Map Numbers 74.15-1-3 and 74.15-1-4
206 Route 303
Orangeburg, New York 10962

Prepared Pursuant to Voluntary Cleanup Agreement

NYSDEC Site #: V00579
NYSDEC Index #: W3-0930-02-07

Orangeburg Holdings, LLC
Boca Raton, Florida

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1 Summary

1.1 Site, Nature and Extent of Contamination, and Remedial History

This report is the Periodic Review Report (PRR) for portions of the Former Orangeburg Pipe Manufacturing – Lowe's site (the "site") at 206 Route 303 in Orangeburg (Town of Orangetown), Rockland County, New York, and documents site management during the period March 28, 2020, to March 28, 2023. The site is in a commercial area and is the location of a Lowe's Home Improvement retail store (Lowe's). Groundwater at the site has been shown to be impacted with volatile and semivolatile organic compounds (VOCs and SVOCs). There have been two remedial excavations of contaminated soil, one in 2001 to remove VOC-contaminated soil in the northwest portion of the site and one in 2002 to remove oil-contaminated soil in the north-central portion of the site.

A groundwater extraction & treatment system (ETS) was in operation between December 2004 and October 2014. Based on the results of groundwater data and ETS discharge data for a decade and a recommendation in the 2014 PRR submitted in March 2014, the groundwater ETS was shut down in October 2014, subsequent to review and approval from New York State Department of Conservation (NYSDEC). Historic site fill is covered by a cap, consisting of a combination of the building slab, paved/concrete parking and walking areas, and soil cover.

1.2 Effectiveness of the Remedial Program

The site is subject to Voluntary Cleanup Agreement (VCA) V00579 between Orangeburg Holdings, LLC (the Volunteer) and NYSDEC under the New York Brownfield Cleanup Program. The remedial program consists of a remedial action work plan and operation, maintenance, and monitoring work plan (LMS 2005) approved by the NYSDEC on April 22, 2005 (together referred to as the Work Plan). The Site Management Plan (SMP) (HDR 2006) incorporates the Work Plan and includes by reference a Declaration of Covenants and Restrictions filed with the deed at the Rockland County Clerk's Office. The SMP has the following five, active elements:

1. Cap over historic fill;
2. Soil management plan;
3. Land use restrictions;
4. Groundwater use restrictions; and
5. Reporting.

As noted above, the groundwater ETS at the site was shut down in October 2014.

The remedial program continues to prevent unacceptable exposure to the site contaminants and is meeting the remedial goals which are:

1. Prevention of exposure to contaminated groundwater;

2. Prevention of off-site migration of contaminated groundwater, and

3. Prevention of contact with historic site fill materials beneath the cap.

1.3 Compliance

There has been no non-compliance with the SMP during this 3-year reporting interval.

1.4 Recommendations

1. The groundwater ETS should remain inactive. However, the system remains in place in the event future groundwater monitoring results demonstrate a need to reactivate the system.

2. The current groundwater monitoring program should continue with the same annual sample frequency using the monitoring wells recommended in the March 2014 PRR and approved by NYSDEC. The nine monitoring wells currently included in the annual groundwater sampling program are as follows:

    - MW03-11S
    - MW03-12S
    - MW03-12D
    - MW03-14S
    - MW03-18S
    - MW03-18D
    - MW03-27S
    - MW03-27D
    - MW07-29

    After the July 2014 annual groundwater monitoring event the following monitoring wells were removed from the monitoring program as recommended in the March 2014 PRR and approved by NYSDEC:

    - MW03-11D
    - MW03-14D
    - MW03-25
    - MW03-26
    - MW03-28

3. Requirements for discontinuing site management have not been met.

2 Site Overview

2.1 Description

The site is in in a commercial and industrial area. The site location is shown in Figure 1, a topographic map of the area, and Figure 2 an aerial view of the site location (Figures follow the References section of this report). Figure 3 is taken from the deed restriction put in place pursuant to the VCA. This figure shows that the site consists of two tax lots: 74.15-1-3 and 74.15-1-4. The two lots were subsequently merged into one lot: 74.15-1-3. The site is an approximately 12-acre portion of the former Orangeburg Pipe Manufacturing property. Figure 4 shows the pertinent site features including the Lowe's building, the monitoring wells and the inactive ETS including the treatment building. Figure 5 depicts the monitoring wells that are included in the current annual groundwater monitoring program as well as the other monitoring wells remaining at the site. The Lowe's building at the site is a slab-on-grade construction without a basement and is used for retail sales. Investigations have demonstrated that vapor intrusion is not a concern at the Lowe's site.

Two other adjacent sites that were part of the former Orangeburg Pipe Manufacturing facility are described below (these two sites are not included in this PRR).

1. 15.8-acre Lot 74.15-1-21 to the south across Stevens Way. This property, now known as Orangeburg Commons, has also undergone remediation under the Brownfield Cleanup Program (Site No. C344073). Remediation consists of a cap over historic fill and the installation of sub-slab depressurization systems to prevent vapor intrusion into buildings. In addition, the deed for Orangeburg Commons has a Declaration of Covenants and Restrictions similar to that for the Lowe's site.

2. 5.84-acre Lot 74.15-1-2 across Greenbush Road to the west (5 Greenbush Road). This property, referred as the Triangular Parcel during previous investigation activities and previous data summary reports, had also been in the voluntary cleanup program (V342-3); however, no progress on remediation appears to have taken place since the April 2014 PRR was submitted. This property is currently referred to the as the Orangeburg Commercial Center site. In April 2016, an application to be admitted into the Brownfield Cleanup Program (Site No. C344078) was prepared and submitted by Tenen Environmental, LLC on behalf of BF Orangetown LLC (BFO) to NYSDEC for this Triangular Parcel. In 2017, BFO submitted a final Remedial Action Work Plan to NYSDEC. Remedial activities were initially scheduled to commence in July 2019; however, the start of work was delayed while BFO obtained the necessary approvals to redevelop the site. According to a NYSDEC fact sheet released in October 2022, remediation activities at this site were rescheduled to begin in October 2022. According to the fact sheet, the remedial activities are expected to take about 15 months to complete. As of March 2023, based on observations during the bi-monthly site visits to the Lowe's site, there have apparently been no recent investigation or remediation activities at the Orangeburg Commercial Center site. As discussed in this PRR, the Triangular Parcel is believed to be the source of chlorinated VOCs

detected in an upgradient monitoring well at the northwest corner of the Lowe's site along Greenbush Road.

2.2 Remedial Program

The primary element of the remedial program is the cap over the historic site fill. Most of the site is covered by the building slab, parking lot, and concrete sidewalks. The remainder of the property has an earthen cover, underlain by a filter fabric that acts as a visual warning in case excavation activities in these areas are required.

The secondary element of the remedial program was the groundwater remediation system that was in operation from December 2004 through October 2014. The objective of the groundwater ETS was to capture contaminants in the groundwater emanating from two areas in the northwestern portion of the site. One area is along Greenbush Road in the vicinity of monitoring well MW03-18S. This area was contaminated with 1,1,1-trichloroethane (TCA), TCA environmental degradation products (notably 1,1-dichloroethane [DCA]), and petroleum-related constituents. A remedial excavation (cross-hatched area in Figure 4) was conducted in 2001 to remove the contaminated soil and the area was back-filled with crushed stone to enhance the subsequent groundwater ETS's ability to remove the residual contamination. The second area targeted by the ETS is an area of oil contamination excavated in 2002 just east of the first area. A stone-filled trench was installed to intercept groundwater from the two excavation areas, collect groundwater from those areas and upgradient, and inhibit the groundwater from migrating downgradient. In addition to the groundwater collection trench, the groundwater remediation system included a manhole in the trench area from which water was extracted and pumped to an on-site building for metering, treatment, and discharge to the local sanitary sewer in accordance with a permit issued by the Town of Orangeburg. The treatment system was started on December 29, 2004.

The system was designed to provide treatment with bag filters (for removal of particulates) and activated carbon (for removal of organics), after which the effluent would be discharged to the Town of Orangetown sanitary sewer system for further processing at the municipal sewage treatment plant. Because chemical concentrations in the system influent were low, in December 2005, the Town of Orangetown allowed the filtration and activated carbon components of the site treatment system to be bypassed. However, the filtration vessels and carbon treatment remain in place (offline) in case there is a future need for reactivation of those components. As mentioned previously, the groundwater ETS was shut down on October 1, 2014, based on the results of the historical data from the monitoring wells and the treatment effluent since 2004. NYSDEC approved the recommendation in the March 2014 PRR to shut down the ETS for the site.

The results of the annual groundwater sampling conducted since the ETS shut down show no significant changes in the groundwater concentrations of the chemicals of concern (COC) since the prior PRR submittal. COC concentrations in the capture zone of the ETS remain low. Additional discussion of groundwater quality is presented in Chapter 5.

In addition to the above elements, the remedial program includes a deed restriction that prevents the use of the site's groundwater without the NYSDEC first permitting such use.

Also, the deed restriction prevents the site from being used for purposes other than for restricted commercial use, which prevents day care, child care and medical care uses, unless approved by the NYSDEC.

3 Remedy Performance, Effectiveness, and Protectiveness

The current remediation goals for the site are:

1. Prevent use of the site groundwater. There is a Declaration of Covenants and Restrictions filed with the land records in the Rockland County Clerk's office that, among other restrictions, prevents the use of groundwater at the site. The site receives potable water from the municipal supply, and accordingly there is no use of the site groundwater. There are no water withdrawal wells at the site, other than the pump out manhole that previously operated for the ETS. The ETS did not operate during this 3-year PRR interval. Previous inventories and data reviews indicate that there are no private or public water supply wells downgradient of the site.

2. Prevent exposure to the historic site fill. The cap over the historic fill remains intact. During this 3-year reporting period, there were two cap repair / replacement / maintenance projects conducted by Lowe's in accordance with the SMP that are described in further detail in Section 6.2.

4 IC/EC Plan Compliance

4.1 IC/EC Requirements and Compliance

4.1.1 Former Extraction and Treatment System

Description. Initially the ETS was an engineering control consisting of a groundwater collection trench that drains to a pump out manhole whose operation served to capture groundwater that might otherwise migrate downgradient. The pumpage was discharged to the local municipal sanitary sewer system as authorized by a permit from the Town of Orangetown. It was determined with NYSDEC that the ETS engineering control was no longer required for the site. As discussed, the ETS was shut down on October 1, 2014, in accordance with the recommendations in the March 2014 PRR that were approved by NYSDEC in a letter to Mr. Steven Kolitch (Orangeburg Holdings, LLC) dated September 23, 2014. The ETS discharge permit remained open for several years after the ETS was shut down in the event the results from the annual groundwater sampling events indicated the contamination was moving away from the site requiring the ETS to be reactivated. The ETS equipment remains in place should it need to be reactivated in the future. If it is necessary to reactivate the ETS, Orangeburg Holdings, LLC will apply for a new discharge permit from the Town of Orangetown.

The performance of this control was evaluated by periodic sampling of monitoring wells and the pump out discharge when the ETS was in operation. The capture zone of the system was the shallow groundwater in the fill upgradient of the collection trench in the northwest corner of the site. No groundwater was discharged from the system during this 3-year PRR interval.

Goal Status. System operations were normal up to the point when the system was shut down in 2014.

The ETS was fully in place and meeting its remediation goals (capture of contaminated groundwater in the upgradient fill) until it was determined that operation was no longer necessary. NYSDEC approved the shutdown of the ETS, and the system has not been in operation since October 1, 2014.

Corrective Measures. There are no deficiencies in the system and corrective measures are not required. The components of the system remain in place in the event groundwater data from the site indicates the system should be reactivated. The results of the groundwater sampling since the ETS was shut down have not shown a significant change that would warrant the reactivation of the ETS.

Conclusions and Recommendations. No changes to the ETS are needed; it should remain inactive.

4.1.2 Water Use Restrictions

Description. The restriction is an institutional control included in the Declaration of Covenants and Restrictions that prohibits use of the site's groundwater unless NYSDEC approves otherwise. The site receives potable water from the municipal supply, and accordingly there is no use of the site groundwater.

Goal Status. The restriction is fully in place and there are no on-site wells, other than those associated with the monitoring and remedial system.

Corrective Measures. There are no deficiencies, and corrective measures are not required.

Conclusions and Recommendations. No changes are needed.

4.1.3 Land Use Restrictions

Description. The restriction is an institutional control included in the Declaration of Covenants and Restrictions that limits use of the site to "restricted commercial," which excludes day care, child care and medical care.

Goal Status. The restriction is fully in place. The site use is for a retail home improvement store.

Corrective Measures. There are no deficiencies, and corrective measures are not required.

Conclusions and Recommendations. No changes are needed.

4.1.4 Cap Over Historic Fill

Description. As noted previously, the site is capped by a combination of the site building, pavement, concrete sidewalks, and earthen fill. Excavation through the cap into the historic fill materials must first be approved by the NYSDEC.

Goal Status. During this 3-year reporting period, there have been two repair / maintenance / upgrade activities conducted by Lowe's that required the cap to be disturbed in two separate areas of the site. These activities included the installation of a small catch basin in a low-lying location in front of the Garden Center area that was tied into the existing stormwater drainage system (work occurred in October 2020), and the removal of a small grass area behind the main building and the installation of a concrete slab to provide additional storage capacity at this area (December 2022). In the Fall of 2020, the entire front parking lot was milled and replaced. As part of the asphalt replacement activity in 2020, Lowe's added some structural fill in the area along the detention basin because the parking lot had settled about eight inches in this area since the store and detention basin were first constructed in 2003. These activities were performed in accordance with the SMP and are described in more detail in Section 6.2.

Photographs of the cap maintenance / repair activities are presented in Appendix A.

The cap is in place and meets the requirements of the Remediation Work Plan.

Corrective Measures. There are no deficiencies, and corrective measures are not required.

Conclusions and Recommendations. No changes are needed.

4.2 IC/EC Certification

A copy of the requisite certification is presented in Appendix B. The Qualified Environmental Professional (QEP) section of the certification has been signed by Michael P. Musso, P.E. The original hard copy certification document can be submitted to the NYSDEC project manager if requested.

5 Monitoring Plan Compliance

5.1 Components of the Monitoring Plan

Prior to the 2014 PRR interval (March 2011 through March 2014) there were two NYSDEC-approved amendments to the monitoring plan specified in the original Remedial Action Work Plan which included the reduction of manhole discharge sample frequency from quarterly to semiannually, and elimination of the annual sampling of the storm water detention basin. As part of the March 2014 PRR approval, NYSDEC approved the reduction in the number of monitoring wells included in the annual groundwater monitoring program and the shutdown of the ETS. In accordance with the approval of the recommendations in the March 2014 PRR from NYSDEC, the following monitoring wells were removed from the monitoring program: MW03-11D, MW03-14D, MW03-25, MW03-26, and MW03-28. The nine monitoring wells currently included in the annual groundwater sampling program are as follows: MW03-11S, MW03-12S, MW03-12D, MW03-14S, MW03-18S, MW03-18D, MW03-27S, MW03-27D, and MW07-29. In July 2014, the annual groundwater monitoring event included the full set of monitoring wells because the 2014 annual groundwater sampling event was conducted prior to the approval of the recommendation to remove these monitoring wells from NYSDEC in September 2014. The nine groundwater monitoring wells now included in the sampling program continue to be sampled annually. Groundwater samples are currently analyzed for volatiles using EPA GC/MS Method 8260. When the Work Plan was prepared, EPA GC Methods 601 and 602 were specified as the analytical method; however, Method 8260 assesses a greater number of analytes. Naphthalene has been included in the Method 8260 VOC parameter list since it has been a COC at the site.

EQuIS electronic deliverables for the sampling and analytical work have already been submitted to the NYSDEC. Therefore, copies of the laboratory data reports for the annual monitoring well sampling events are no longer included with the PRR submittals.

In addition to the above monitoring required by the Work Plan, when the ETS was in operation, the Town of Orangetown would periodically sample the manhole discharge as part of the town's compliance monitoring program. Since the ETS was shut down in 2014, the Town of Orangetown is no longer collecting samples from the site.

5.2 Summary of the Monitoring Completed

During this reporting period (March 28, 2020, through March 28, 2023), the annual sampling of the monitoring wells was conducted on the following days:

- July 8, 2020
- July 27, 2021
- July 06, 2022

Copies of the field data sheets for the groundwater sampling events are presented in Appendix C.

Tables 1, 2, and 3 summarize the VOC results for the July 2020, July 2021, and July 2022 groundwater monitoring events (Tables follow the References section of this report).

Table 4 summarizes the VOC results from the site monitoring wells since the sampling program began. Where a new well was constructed in 2003 as a replacement for a well abandoned during construction of the shopping center, the test results are grouped for the two wells as a single location. It should be noted that MW03-12S has historically been dry and was dry during the three sampling events included in this PRR interval.

5.3 Comparisons with Remedial Objectives

Reference is made to Table 1, Table 2, and Table 3 (annual monitoring well data results for the three sample events completed during this reporting period), which show all results for the nine monitoring wells along with the NYS Class GA groundwater standards and/or guidance values where applicable for comparison. Table 4 provides a summary of the historical data collected from the monitoring wells, and Figure 6 provides graphical summaries of the data for each monitoring well, for total VOCs and total CVOCs or total BTEX since the sampling program was initiated. Locations of the monitoring wells and the ETS manhole are depicted in Figure 5. Figure 6 provides a summary of the common chemicals detected in the groundwater at the site during this PRR interval.

5.3.1 Chlorinated VOCs

The original impetus for the installation of the groundwater remediation system was the presence of chlorinated VOCs in the area of MW-18S (now MW03-18S). Prior to remediation, 1,1-dichloroethane (DCA) concentrations had been in the range of 230 to 480 micrograms per liter (mcg/L). DCA is often an environmental degradation product of 1,1,1-trichloroethane (TCA). Oily soil in the area was excavated and backfilled with crushed stone that drains to the groundwater ETS. DCA concentrations have been less than 3 mcg/L in MW03-18S since 2005. Downgradient of the MW03-18 area (MW03-11S, MW03-11D, MW03-12S, MW03-12D, MW03-14S, MW03-14D, MW03-27S, MW03-27D), the site is essentially free of chlorinated VOCs.

The highest chlorinated VOC concentrations have historically been at the upgradient fringe of the site (MW03-26 and MW03-18D). MW03-26 (DCA concentrations in the range of 3 to 4.9 mcg/L between 2010 and 2014) is upgradient and off-site in Greenbush Road. MW03-26 was removed from the groundwater sampling program after the 2014 sampling event. MW03-18D continues to show a slight overall decreasing trend of DCA concentrations. Since the July 2018 sampling event the DCA concentrations in MW03-18D have been consistent with concentrations ranging between 9.9 and 12 mg/L. MW03-18D is the only deep well at the site that still has detections of chlorinated VOCs. MW03-18S continues to show a slight decreasing trend of low-level DCA concentrations as well; it was below the detection limit of 1.0 mcg/L during the annual sampling in 2022 and it was detected at concentrations of 1.1 and 1.0 mcg/L during the July 2020 and July 2021 sampling events, respectively. The source of the chlorinated VOCs is believed to be the Triangular Parcel west of Greenbush Road (Site No. C344078) where TCA and DCA concentrations of 12,000 and 720 mcg/L, respectively, were measured in what appears to be a foundation drain of a former Orangeburg Pipe manufacturing building (LMS 1991).

Remedial objectives for the site have been met for chlorinated VOCs. There is an upgradient source of chlorinated VOCs that appears to be impacting the deeper groundwater in an isolated upgradient portion of the site; the groundwater remediation system was not designed to address that off-site source. It is assumed the investigation and remedial activities to be conducted at this adjacent Brownfield Cleanup site (Orangeburg Commercial Center) (Site No. C344078) will aim to address the chlorinated VOCs coming from this upgradient site.

5.3.2 Naphthalene

MW03-11D was sampled once for naphthalene prior to the construction of the shopping center; the compound was not detected (<10 mcg/L). After the construction of the shopping center, naphthalene was found in the replacement well MW03-11D at a concentration of 680 mcg/L (December 2004), indicating that there was probably an oil spill in the area during construction activities. There was no shallow well at this location prior to the shopping center construction; the first sampling of the new shallow well MW03-11S indicated that naphthalene was present at a concentration of 1,300 mcg/L (December 2004).

Since December 2004, the naphthalene concentration at MW03-11D had consistently declined such that naphthalene was not detected in this well between 2012 and 2014. MW03-11D was removed from the groundwater sampling program after the 2014 sampling event. Naphthalene degrades anaerobically and this decline over time is consistent with that process.

The naphthalene concentration in MW03-11S has also declined over time, though not to the degree exhibited by MW03-11D, consistent with the expected more aerobic condition of the shallow aquifer. The naphthalene concentrations in MW03-11S were 110, 83, and 90 mcg/L, in 2020, 2021, and 2022, respectively, during the annual groundwater monitoring events conducted during this PRR interval.

At the request of NYSDEC, MW07-29 was installed about 100 feet downgradient of the MW03-11S/11D cluster in response to the reported naphthalene in the MW03-11S/D cluster in 2007. Except for a low concentration of 1.1 mcg/L detected in 2009, naphthalene has not been detected at MW07-29 at a detection limit of 1.0 mcg/L, indicating that naphthalene is not a compound of concern in the eastern and southern portions of the site.

The naphthalene concentrations in MW03-14S, upgradient from MW03-11S/11D have been reported to be low, often below the detection limit of 1 mcg/L. The naphthalene concentrations in MW03-14S were 2.3 mg/L in 2020 and below the detection limit of 1.0 mcg/L, in 2021 and 2022.

The naphthalene concentrations in MW03-18S, on the upgradient edge of the property, has also been reported below the detection limit of 1.0 mcg/L since July 2008 except for July 2013, July 2017, and July 2021 when naphthalene was detected at concentrations of 5.1 51, and 22 mcg/L, respectively). The source of these occasional elevated naphthalene concentrations detected in MW03-18S are unknown at this time and may be related to

road runoff as this well is adjacent to Greenbush Road. The naphthalene concentrations in MW03-18S in July 2020 and July 2022 were below the detection limit of 1.0 mcg/L.

5.3.3 Oil & Fuel Related Contaminants

In 2002, oil was discovered during test pit work conducted in the northwestern portion of the site during preliminary clearing of the property. The contaminated soil was excavated as best possible given the presence of large concrete foundation footings of the former manufacturing building at that location. The area of the excavation is shown in Figures 4 and 5. The excavation was backfilled with crushed stone and the alignment of the groundwater collection trench for the ETS was subsequently adjusted to intercept shallow groundwater from that stone-filled excavation area.

During the July 2019 sampling event, the sample from MW03-14S contained benzene at 93 mcg/L, toluene at 13 mcg/L, and m&p-xylene at 3.3 mcg/L. Benzene and m&p-xylene had never been detected at this monitoring well location since the initial sampling event was conducted in March 1989, and toluene had only been detected once above the detection limit in July 2007 (4.5 mcg/L). It is likely that the elevated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) detected at this location resulted from a vehicle that was parked over or near the well location that may have had an undocumented fuel spill or release (possibly a leaking gas tank). MW03-11S, downgradient from MW03-14S, did not reveal any type of increase of these contaminants during the July 2019 sampling event when the elevated concentrations were detected in MW03-14S. None of these BTEX compounds were detected in MW03-14S during the three annual sampling events conducted in 2020, 2021, and 2022 for this PRR interval.

MW03-11S continues to have low-level detections of gasoline-related VOCs including BTEX compounds, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and methyl tert-butyl ether (MTBE). The contaminants in this well are not likely from the historic fill and are likely from undocumented gasoline releases in the vicinity of this monitoring well in the parking lot. These gasoline-related VOCs (with the exception of MTBE) have not been detected in any of the other wells included in the annual monitoring program, including wells upgradient from MW03-11S prior to the July 2019 sampling event when BTEX compounds were detected in MW03-14S. The paired deep well at this location, MW03-11D, contained these same gasoline-related VOCs until they degraded enough such that they were non-detect after the July 2011 sampling events. MW03-11D was removed from the annual sampling program after the July 2014 sampling event.

MTBE has also been detected in MW03-14S during most of the sampling events since it was included in the VOC analytical parameter list in 2004. MTBE was not detected in MW03-14S in 2021; however, it was detected at concentrations of 5.2 and 1.5 mcg/L in 2020 and 2022, respectively.

Other than MTBE, and the detection of elevated concentrations of BTEX compounds in MW03-14S in July 2019, petroleum-related VOCs have not been present at monitoring locations downgradient of the excavated area (MW03-12 cluster, MW03-14 cluster, and MW03-27 cluster), indicating that the contamination has been and remains localized and is not mobile.

During the July 2019 sampling event, it was determined that the concrete well pads in the parking lot area for two of the monitoring well clusters (MW03-14S & -14D and MW03-27 & -27D) were cracked and damaged from the constant vehicle traffic. Fuels or petroleum-related compounds that leak from a vehicle in the parking lot could seep down through the area of the damaged concrete well pads (especially during rain events) and impact the groundwater in the immediate area of the monitoring well. The well pads in the parking lot for these two well clusters were replaced in March 2020. HDR has assessed the remaining well pads and vaults and they are still in good condition. The remaining wells that are part of the groundwater monitoring program are not in high traffic areas.

The occasional detections of MTBE and other fuel-related compounds in the shallow monitoring wells would be expected for a large parking lot and appears to be unrelated to the historic oil contamination at the site.

Sampling (LMS 1990) prior to Work Plan approval demonstrated that SVOCs were not at groundwater concentrations of concern elsewhere at the site with the exception of naphthalene; therefore, there has been no testing for these compounds since before the shopping center was constructed. Those historical results also demonstrate that the oil contamination in the 2002 excavation area had not migrated. Naphthalene can be detected in the 8260 VOC analysis and is included in the VOC parameter list for this site.

5.4 Monitoring Deficiencies

There were no monitoring deficiencies during this PRR interval between March 28, 2020 and March 28, 2023; the monitoring fully complied with the Monitoring Plan.

5.5 Conclusions and Recommendations

The monitoring conducted demonstrates that remediation goals have been achieved, except in three areas:

1. There remains naphthalene contamination localized around MW03-11S. Water quality in the deeper aquifer has been restored. The shallow naphthalene contamination has not spread further downgradient. At the MW03-11S location, the naphthalene concentrations have gone up and down since 2013 with concentrations ranging between 46 and 250 mg/L.

2. There remains oil contamination localized to the 2002 excavation area. Historical sampling demonstrates that the contamination has not migrated.

3. There remains deep DCA contamination at MW03-18D (low-level), the source of which is upgradient and off site. The ETS was not designed to address this deeper off-site source of CVOCs.

4. Based on the results of the BTEX concentrations in MW03-14S during the July 2019 sampling event and the absence of these BTEX compounds in this well since then, it appears that the damaged monitoring well pad in the parking lot area may have allowed fuel leaks from vehicles to impact the groundwater in the area of this well. The concrete well pads in the parking lot area were replaced in March 2020. The remaining monitoring well pads and vaults at the site were assessed and found to be in good condition.

The current groundwater monitoring program should be continued with no changes or revisions at this time.

6 Operation and Maintenance Plan Compliance

6.1 Components

The inactive ETS includes a stone-filled groundwater collection trench. There is perforated pipe at the bottom of the trench that drains to the pump-out manhole. The pump-out manhole had a single pump that was controlled with pump-ON and pump-OFF float switches. The discharge from the pump flowed through a flexible hose riser to a force main that leads to the treatment building. At the treatment building, the pumpage was metered and sampled before being discharged to the municipal sanitary sewer system. The bag filter and activated carbon treatment in the building was bypassed as approved by the Town since December 2005. As discussed previously, the ETS was shut down on October 1, 2014, as approved by NYSDEC. However, the ETS components and equipment remain in place or stored in the treatment system building in the event results from the annual groundwater sampling indicate the ETS should be reactivated. If the ETS is required to be reactivated, a new discharge permit will be acquired from the Town prior to reactivation of the ETS.

6.2 Summary of O&M Completed

The Work Plan required regular inspection of the treatment facility and manhole to verify that all systems are functioning properly and that there are no leaks or blockages. Water meter readings and water levels in the pumping system were recorded. The manhole inspection determined whether oil floating on the water surface should be vacuumed or absorbed, and whether sediment has accumulated to a depth that might be drawn into the sump pump. The inspection frequency specified in the Work Plan was biweekly when the ETS was in operation. Since the ETS was shut down, there were no regular inspection events for the manhole or ETS. HDR typically inspects the treatment building on a monthly basis to make sure it is in working condition and there are no vandalism issues; the heat is turned on in the building during the winter months, so the piping and equipment does not get damaged from freezing.

During this PRR interval, Lowe's conducted two cap maintenance and/or repair activities as part of the upkeep of the property and the cap, in accordance with the SMP, as detailed below. Lowe's has kept HDR and Orangeburg Holdings, LLC informed of any activities that involve replacement or disturbance of the site cap components.

1. The parking lot area along the stormwater retention basin at the southeast corner of the property has settled somewhat over the years since the site was developed in 2003. In December of 2019, Lowe's hired a subcontractor to conduct geotechnical borings in the parking lot along the retention basin to determine what may be causing the settlement in this area. The geophysical study concluded that the retention basin was structurally sound, and the parking just needed to be raised about 6-8 inches along the retention basin where it had settled. In October and November 2020, as part of their repair activities for the parking lot, Lowe's brought in some structural fill, raised the area of the parking lot along the retention basin,

and milled the remainder of the front parking lot and installed asphalt over the entire front parking lot area.

2. As part of these parking lot repair activities in the Fall of 2020, Lowe's submitted a proposal to install a small catch basin in front of the Garden Center in a low spot in the parking lot where water was observed to pool to Orangeburg Holdings LLC and HDR for review and comment. The new catch basin was a shallow unit (18-inch depth). The contractor ran a shallow trench to a nearby existing parking lot catch basin. HDR observed the excavation activities, which did not encounter any historic fill materials or the demarcation fabric (indicating the work did not disturb the historic fill materials below the cap). Appendix A contains photos taken during the asphalt replacement and catch basin installation activities.

3. In December of 2022, Lowe's removed topsoil and curbs from a small island of soil at the back of the building to provide additional room for outside storage of building supplies and replaced it with a concrete slab. HDR observed the excavation activities, and the contractor did not encounter historic fill materials or the demarcation fabric indicating they did not disturb the historic fill materials below the cap. Appendix A contains photos taken during the island removal activities.

6.3 Evaluation

The cap continues to prevent exposure to the historic fill and has operated as designed. Appendix D contains photos of the parking lot during the site inspection conducted in March 2023.

6.4 Deficiencies

There were no deficiencies in complying with the O&M Plan during this reporting period.

6.5 Conclusions and Recommendations

No modifications to the O&M plan are required for the site.

7 Overall PRR Conclusions and Recommendations

7.1 Compliance with Site Management Plan

1. For each component of the SMP, all requirements were met during the reporting period.
2. There were no requirements that were not met.
3. New compliance plans/schedules are not needed.
4. The concrete monitoring well pads and vaults are in good condition. The well pads will be assessed during each monitoring event and will be repaired or replaced as required.

7.2 Performance and Effectiveness of the Remedy

The site management plan is achieving the remedial objectives for the site:

1. Groundwater at the site is not being used.
2. Excavation through the cap over the historic fill is controlled and monitored.
3. Contaminated groundwater is not migrating.

7.3 Future PRR Submittals

The current triennial frequency for PRR submittals should be retained.

7.4 Continued Shutdown of the Extraction and Treatment System

The ETS should remain shut down. The results of the annual groundwater sampling events since the ETS has been shut down (July 2015 through July 2022) revealed no significant changes in the contaminants of concern at the site. The ETS will remain shut down; however, it will be kept in operational condition in the event future monitoring demonstrates a need for reactivation of the ETS.

8 References

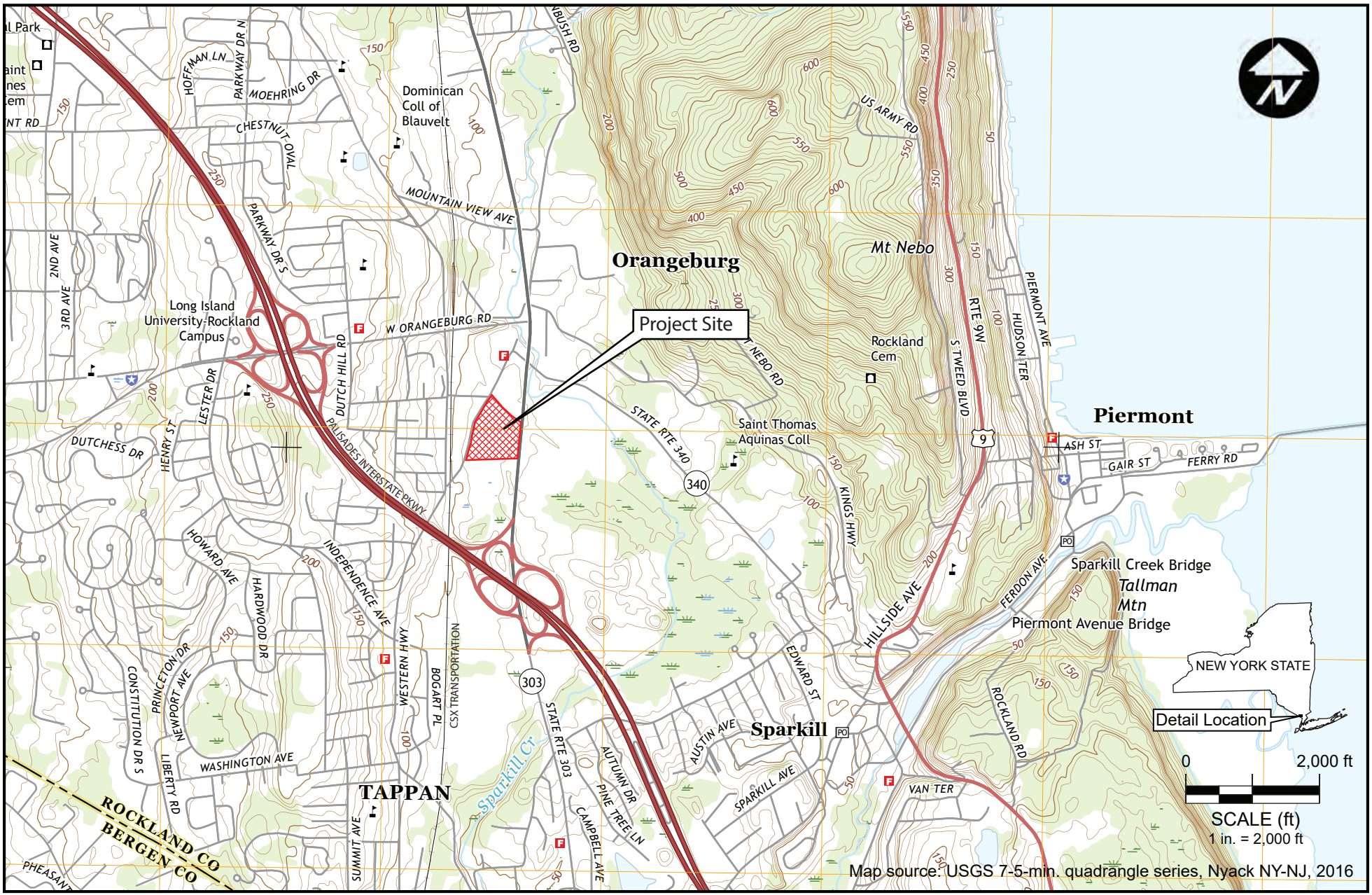
HDR. 2006. Site Management Plan for Portions of Former Orangeburg Pipe Manufacturing Site Tax Map Numbers 74.15-1-3 and 74.15-1-4.

Lawler, Matusky & Skelly Engineers (LMS) 1990. Remedial Action Work Plan – Soil and Groundwater Investigations Conducted on the Former Orangeburg Pipe Manufacturing Site.

Lawler, Matusky & Skelly Engineers (LMS) 1991. Remedial Action Work Plan – Soil and Groundwater Investigations Conducted on Block 754 of the Former Orangeburg Pipe Manufacturing Site.

Lawler, Matusky & Skelly Engineers LLP (LMS) 2005. Remedial Action Work Plan - Operation, Maintenance, and Monitoring Work Plan for Portions of Former Orangeburg Pipe Manufacturing Site.

Figures



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Architects and Engineers, P.C.
in association with HDR Engineering, Inc.
711 Westchester Avenue
White Plains, NY 10604-3504

Site Location

Former Orangeburg Pipe Manufacturing Facility Lowes Site

FIGURE 1

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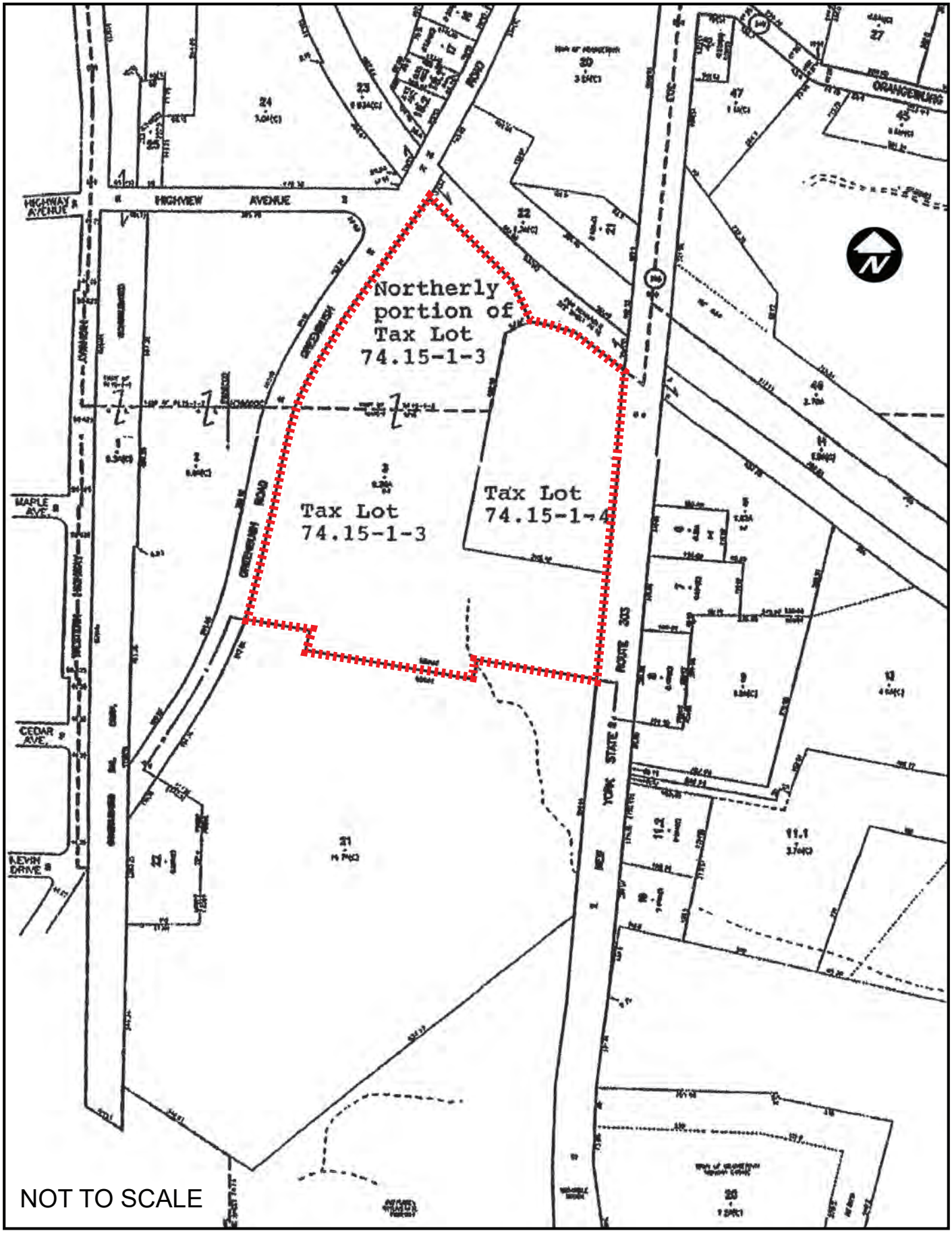
Site Vicinity

Former Orangeburg Pipe Manufacturing Facility Lowes Site

FIGURE 2



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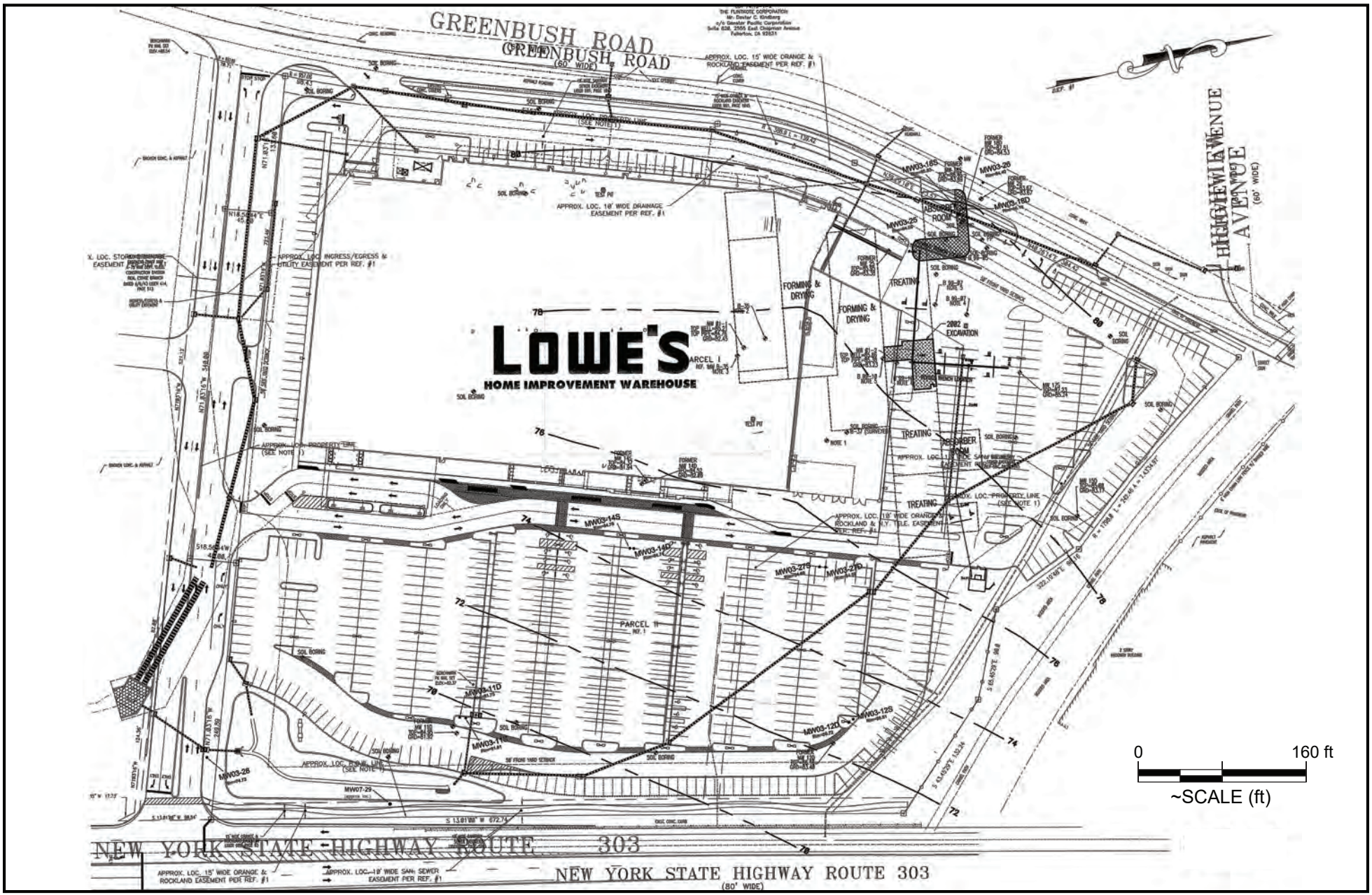
Site Tax Map

Former Orangeburg Pipe Manufacturing Facility Lowes Site

FIGURE 3

\\mahpi-file01\M:\Graphics\Projects\10016690_FormerOrangeburgPipe\2023 PRR\Fig3_SiteTaxMap.ai



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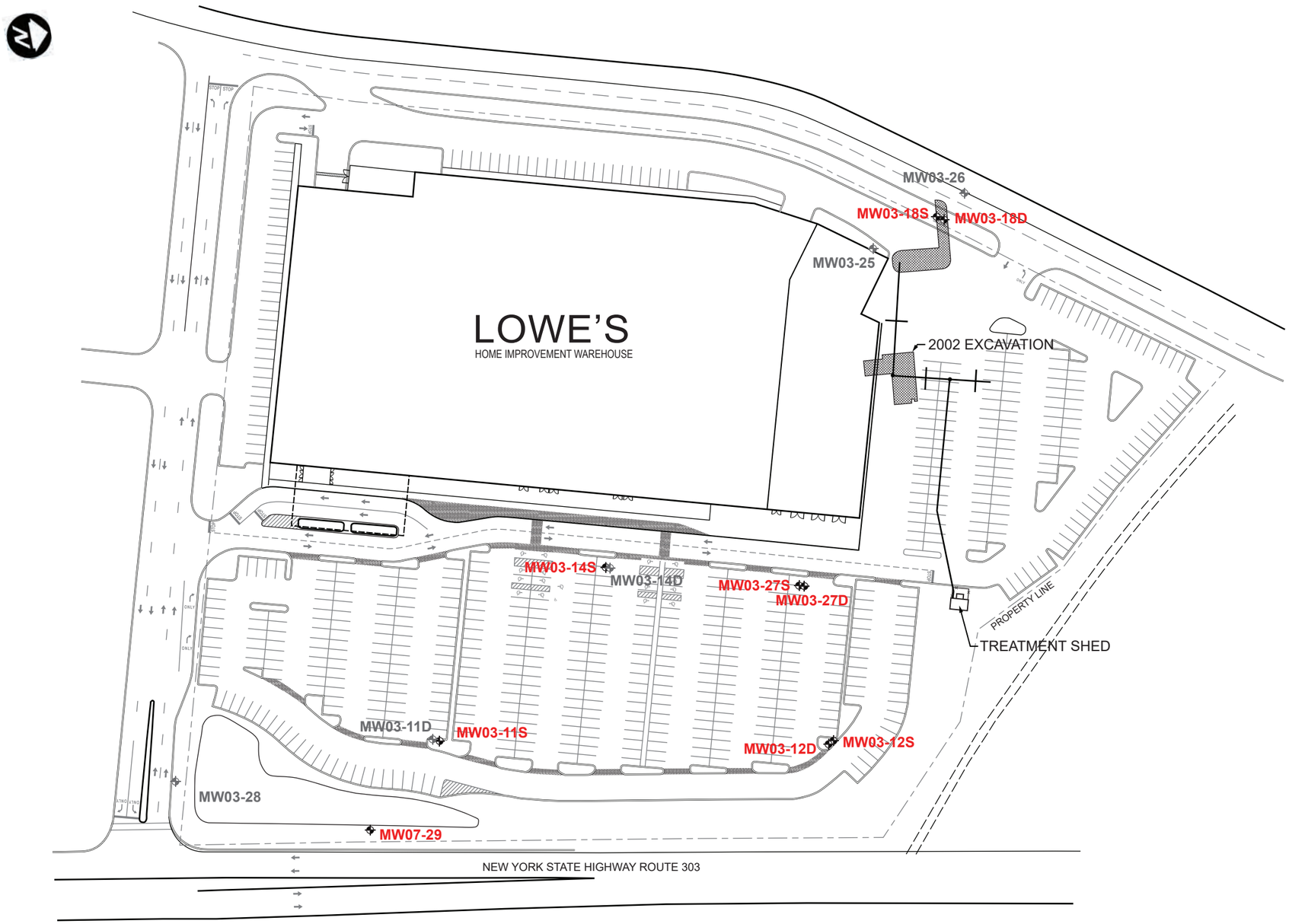
Site Details

Former Orangeburg Pipe Manufacturing Facility Lowes Site

FIGURE 4



Legend

MW #
Monitoring well in current Annual Groundwater Monitoring Program

MW #
Additional monitoring well on site

0 80 ft
~SCALE (ft)

Map source: Lawler, Matusky & Skelly Engineers LLP, 2002

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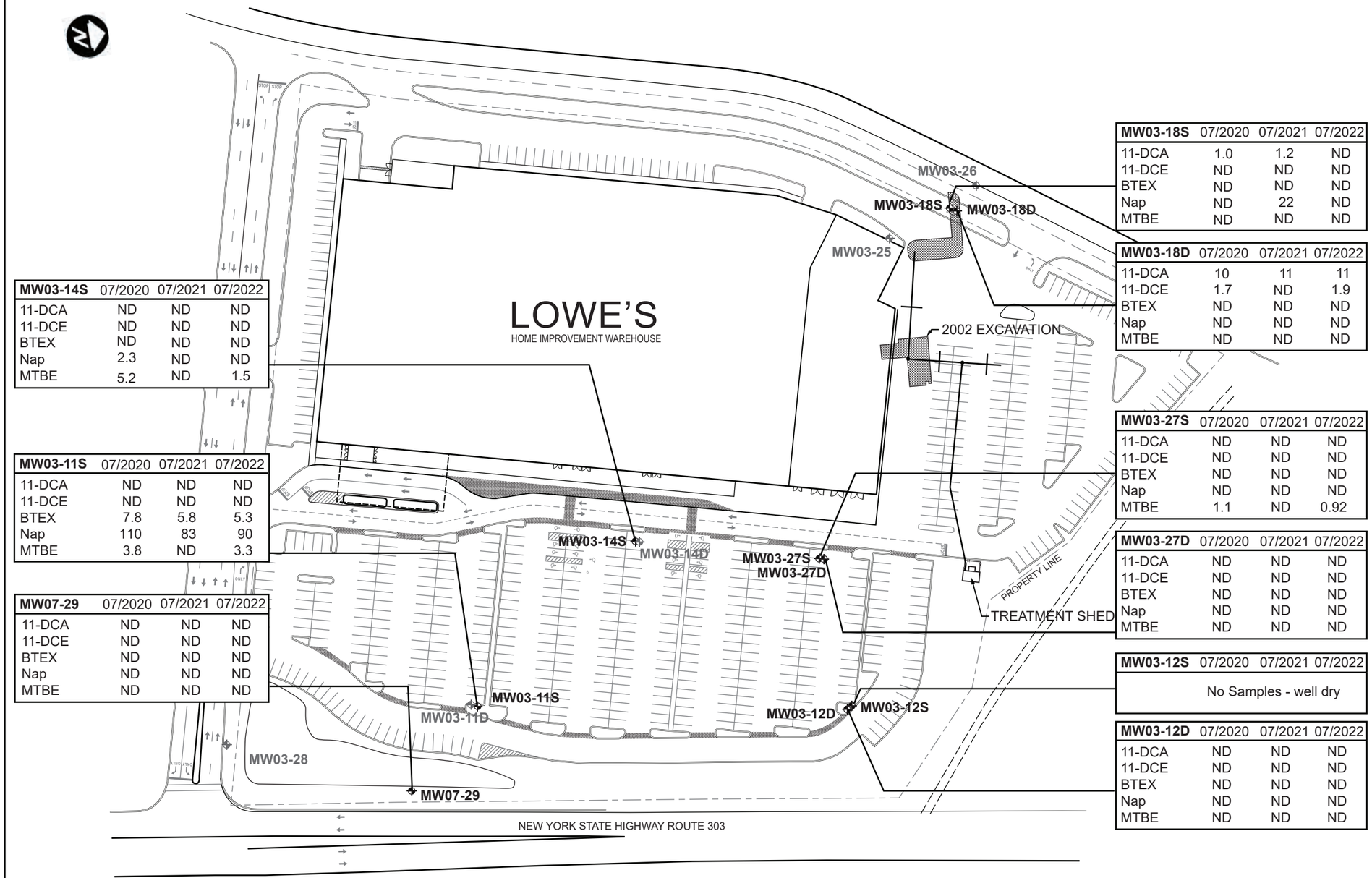
Monitoring Well Locations
Former Orangeburg Pipe Manufacturing Facility Lowes Site
FIGURE 5



MW03-14S	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	2.3	ND	ND
MTBE	5.2	ND	1.5

MW03-11S	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	7.8	5.8	5.3
Nap	110	83	90
MTBE	3.8	ND	3.3

MW07-29	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	ND	ND	ND
MTBE	ND	ND	ND

MW03-18S	07/2020	07/2021	07/2022
11-DCA	1.0	1.2	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	ND	22	ND
MTBE	ND	ND	ND

MW03-18D	07/2020	07/2021	07/2022
11-DCA	10	11	11
11-DCE	1.7	ND	1.9
BTEX	ND	ND	ND
Nap	ND	ND	ND
MTBE	ND	ND	ND

MW03-27S	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	ND	ND	ND
MTBE	1.1	ND	0.92

MW03-27D	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	ND	ND	ND
MTBE	ND	ND	ND

MW03-12S	07/2020	07/2021	07/2022
No Samples - well dry			

MW03-12D	07/2020	07/2021	07/2022
11-DCA	ND	ND	ND
11-DCE	ND	ND	ND
BTEX	ND	ND	ND
Nap	ND	ND	ND
MTBE	ND	ND	ND

Legend

MW #
Monitoring well in current Annual Groundwater Monitoring Program

MW #
Additional monitoring well on site

Notes

All results are presented in mcg/L

ABBREVIATIONS

11-DCA	1,1-Dichloroethane
11-DCE	1,1-Diclhloroethene
BTEX	Benzene, Toluene, Ethylbenzene + Xylenes
Nap	Naphthalene
MTBE	Methyl tert-butyl ether

0 80 ft
~SCALE (ft)

Map source: Lawler, Matusky & Skelly Engineers LLP, 2002

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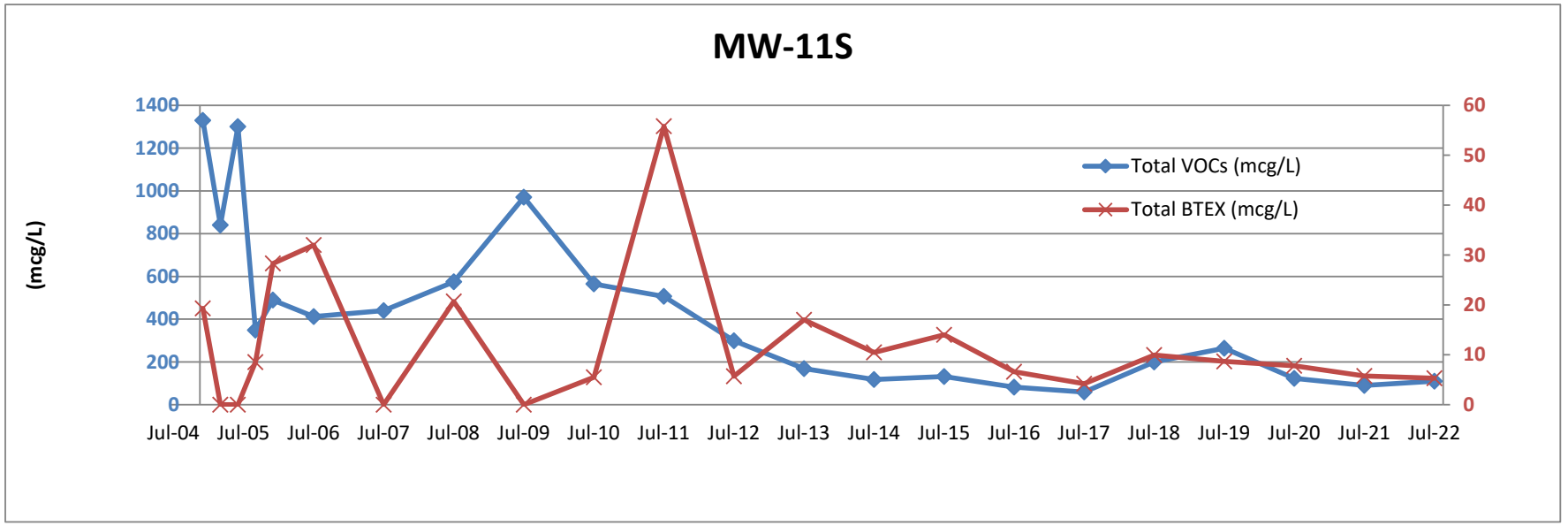
Groundwater Data Summary (Common Site Chemicals) - July 2020-2021-2022

Former Orangeburg Pipe Manufacturing Facility Lowes Site

FIGURE 6

Figure 7

Groundwater Monitoring Wells
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site



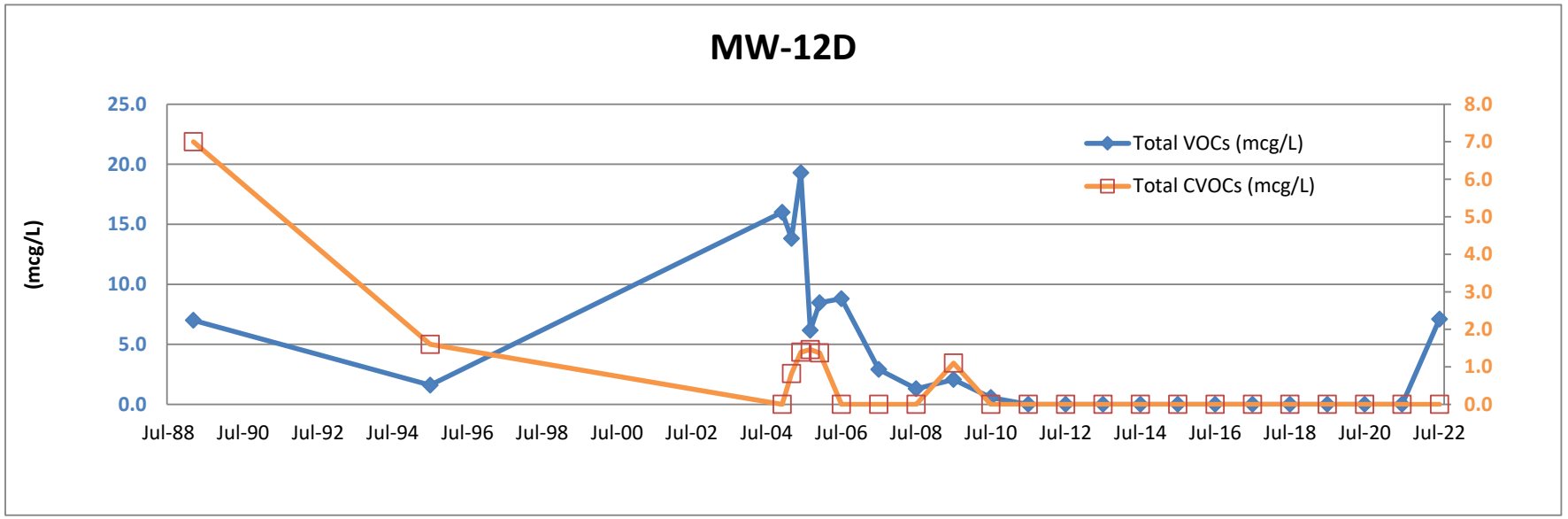
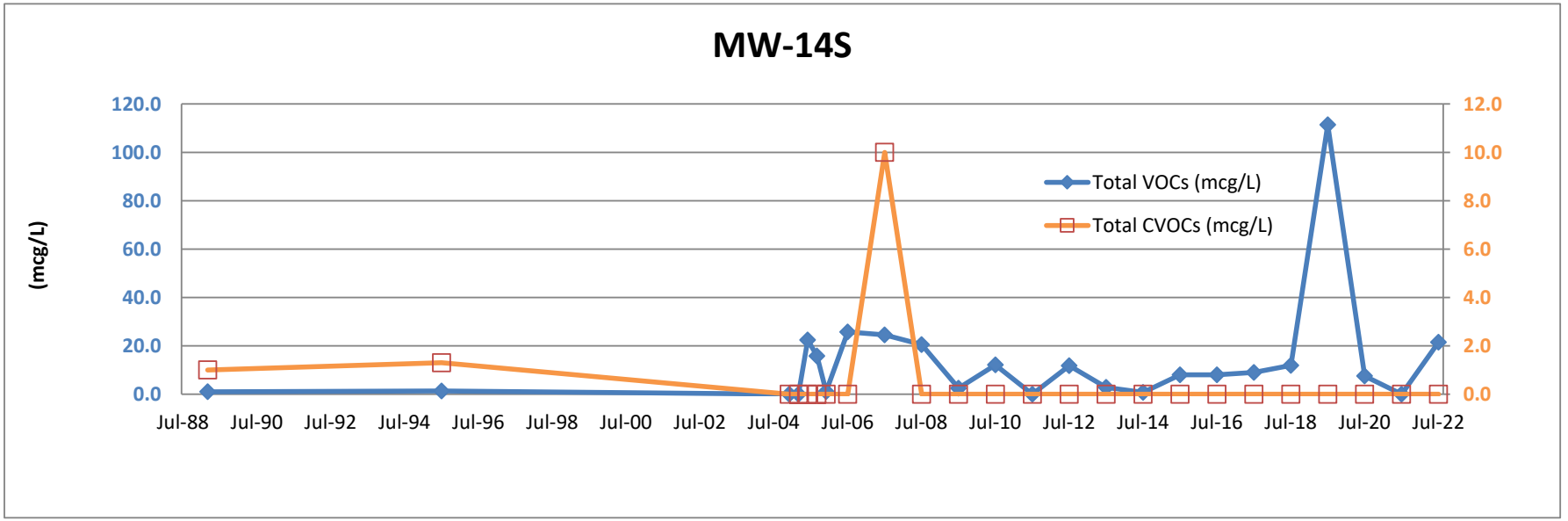
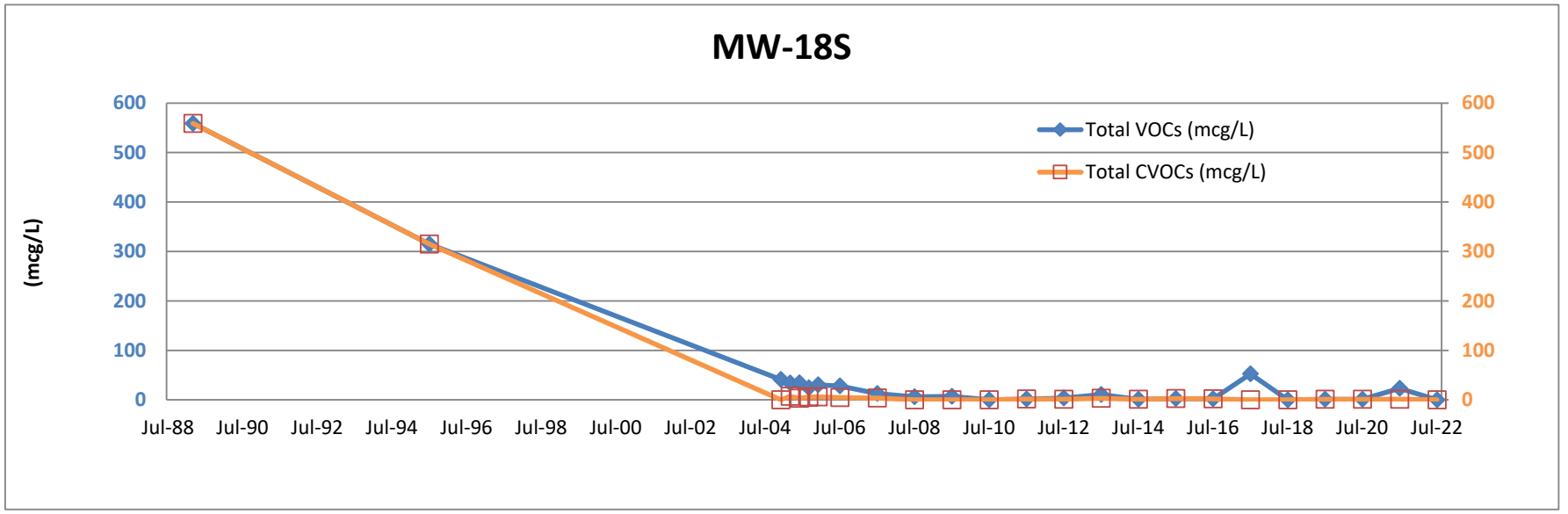


Figure 7

Groundwater Monitoring Wells
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site





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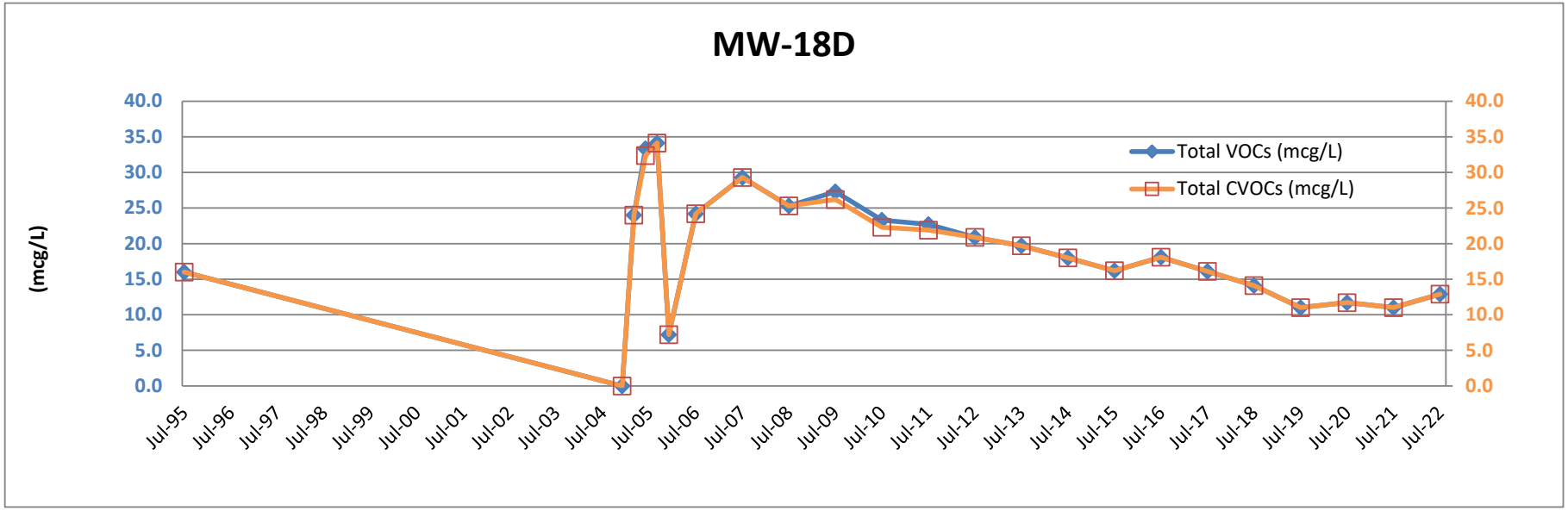
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site



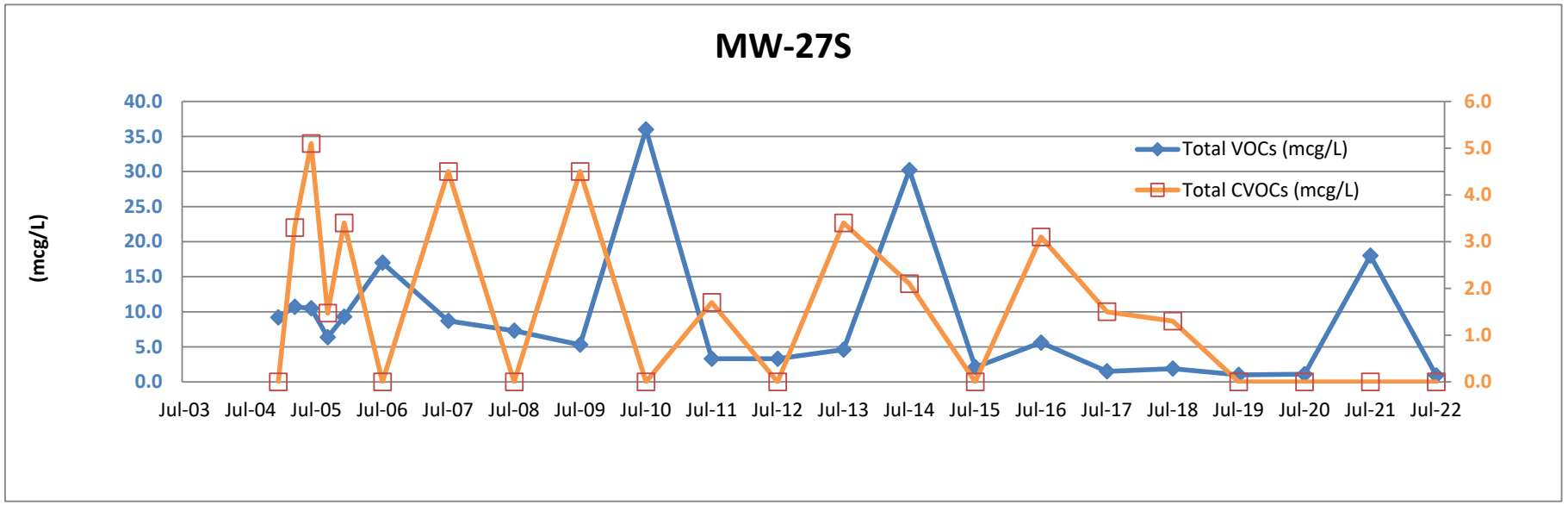


Figure 7

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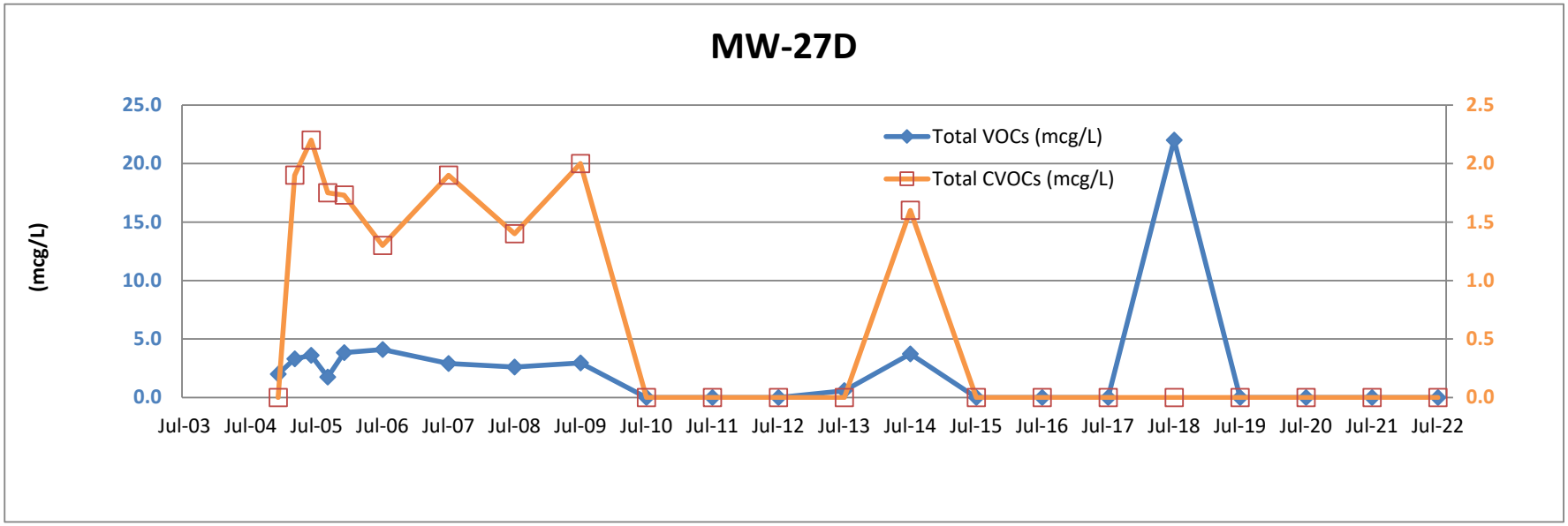
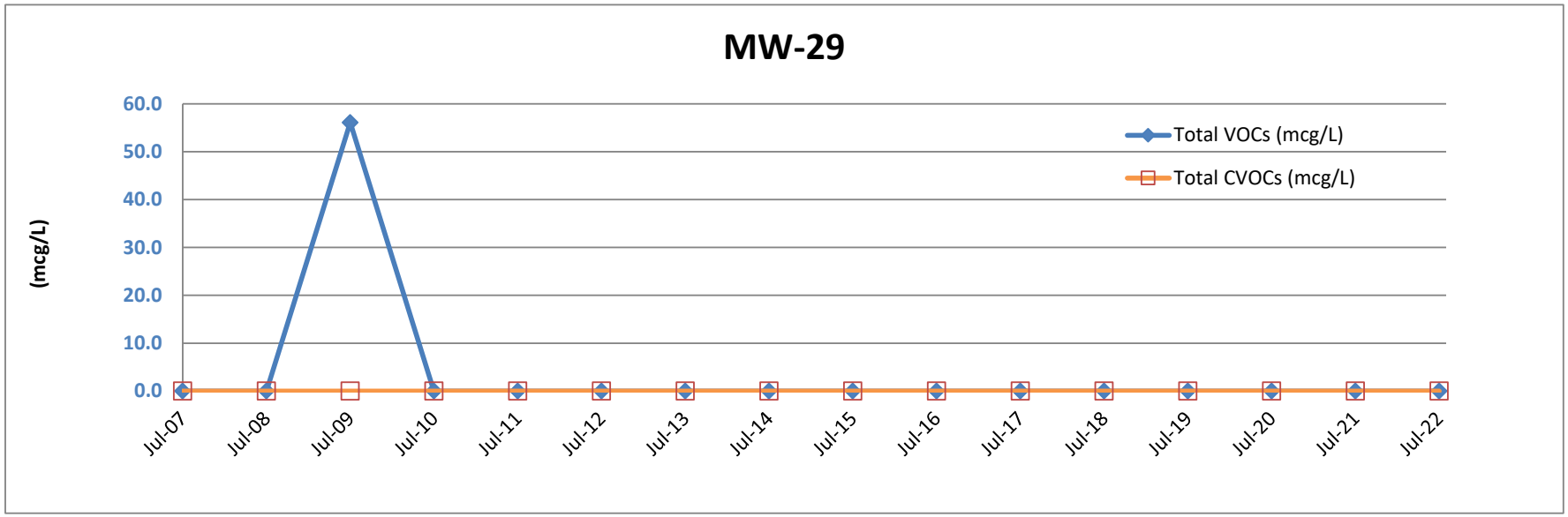
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site





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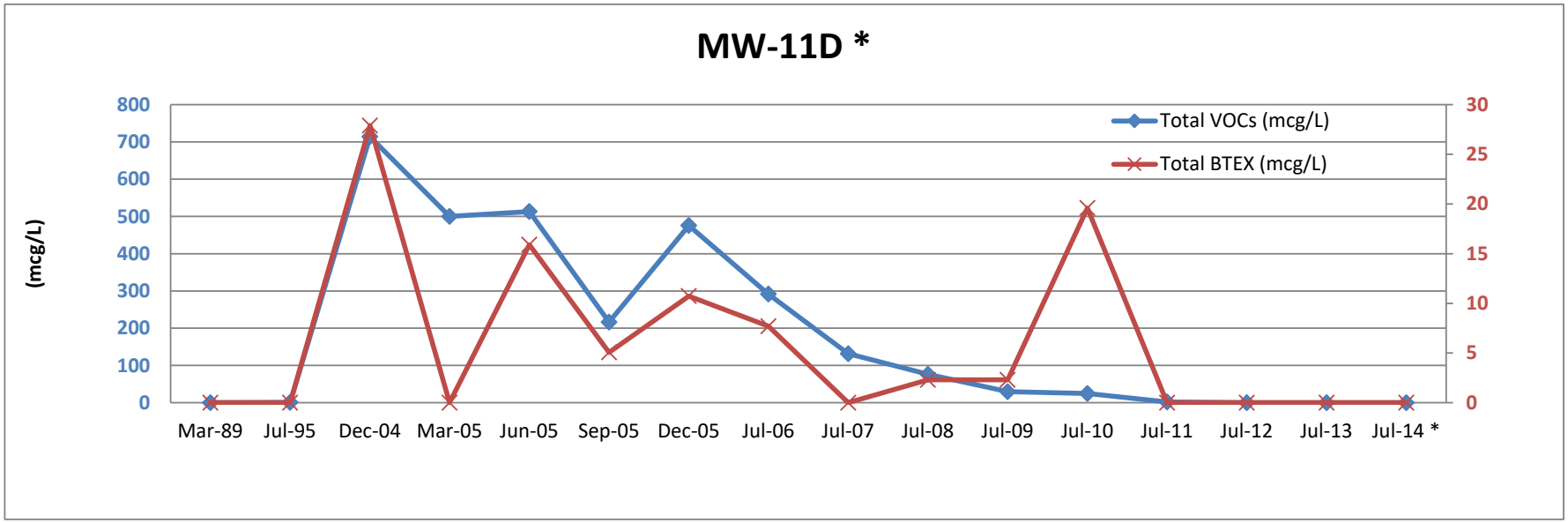
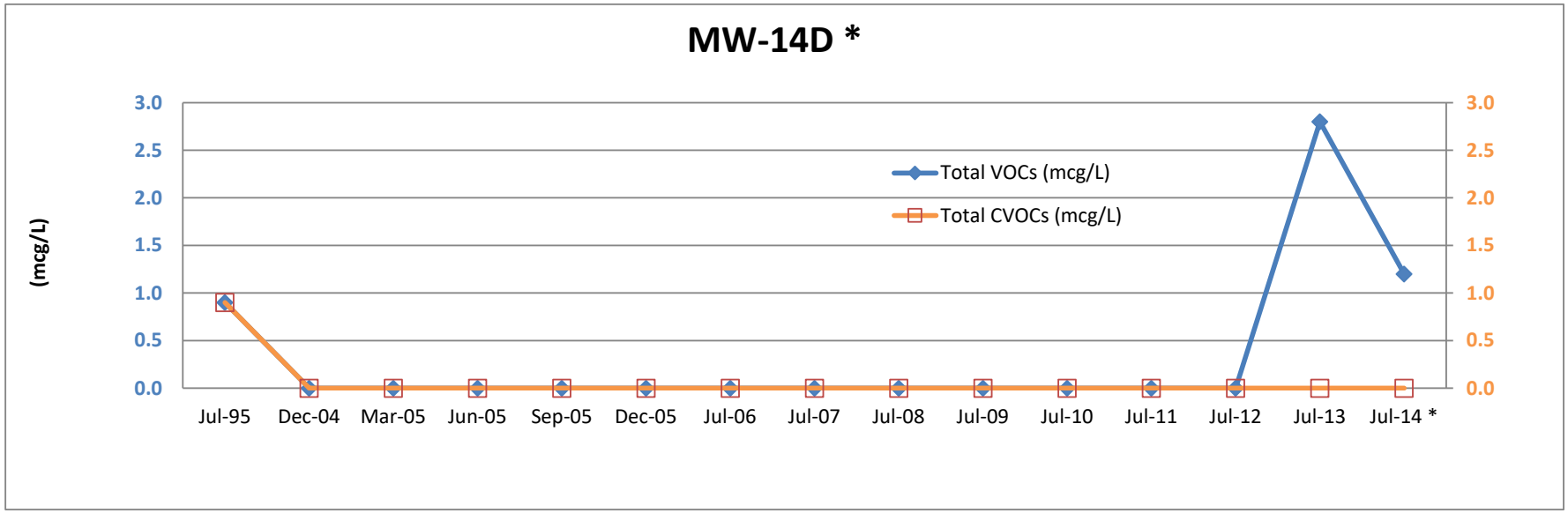
Groundwater Monitoring Wells
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site

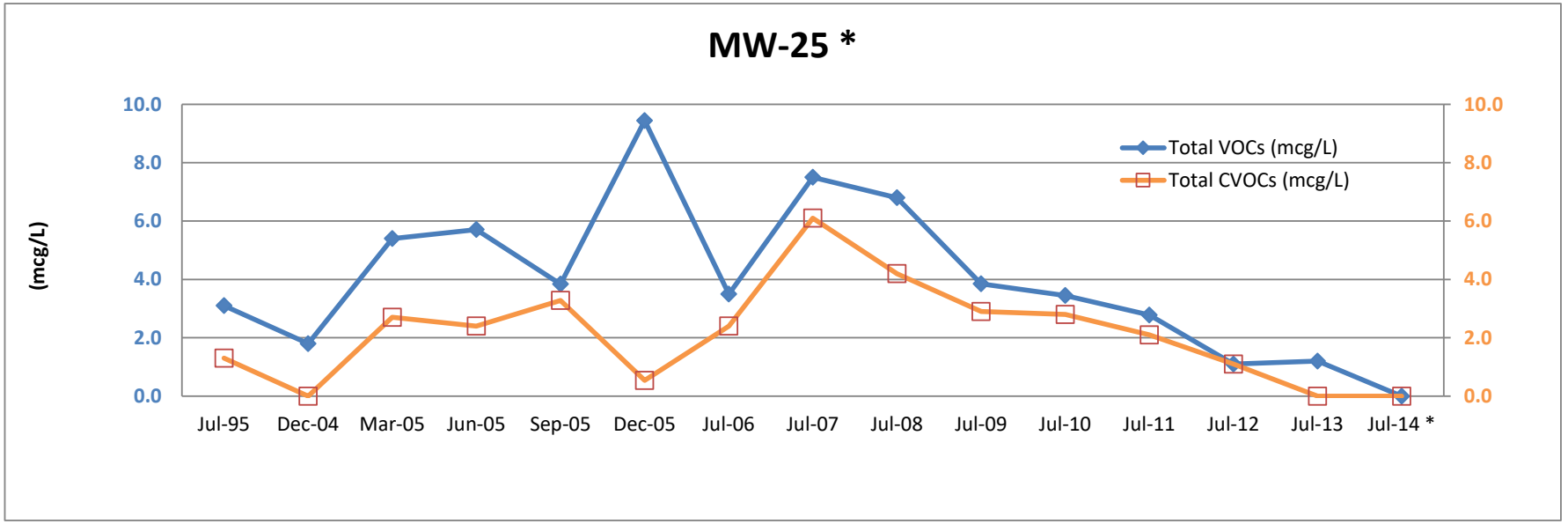


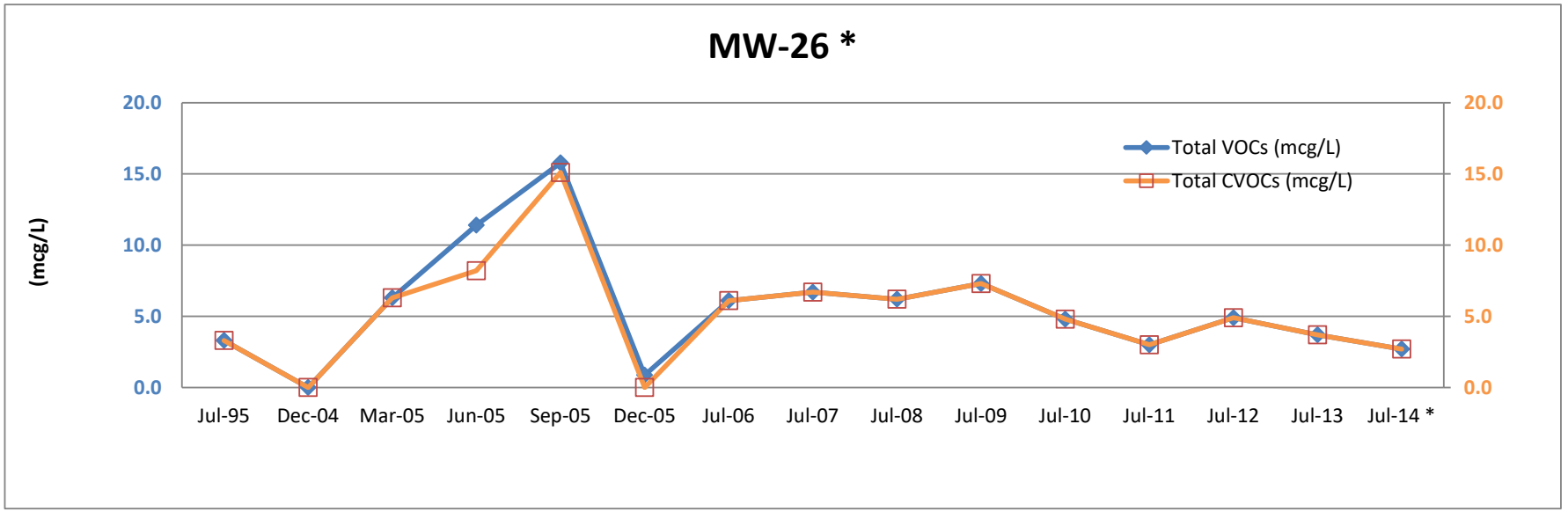


* - Removed from annual monitoring program after 2014 sampling event.

Figure 7

Groundwater Monitoring Wells
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site

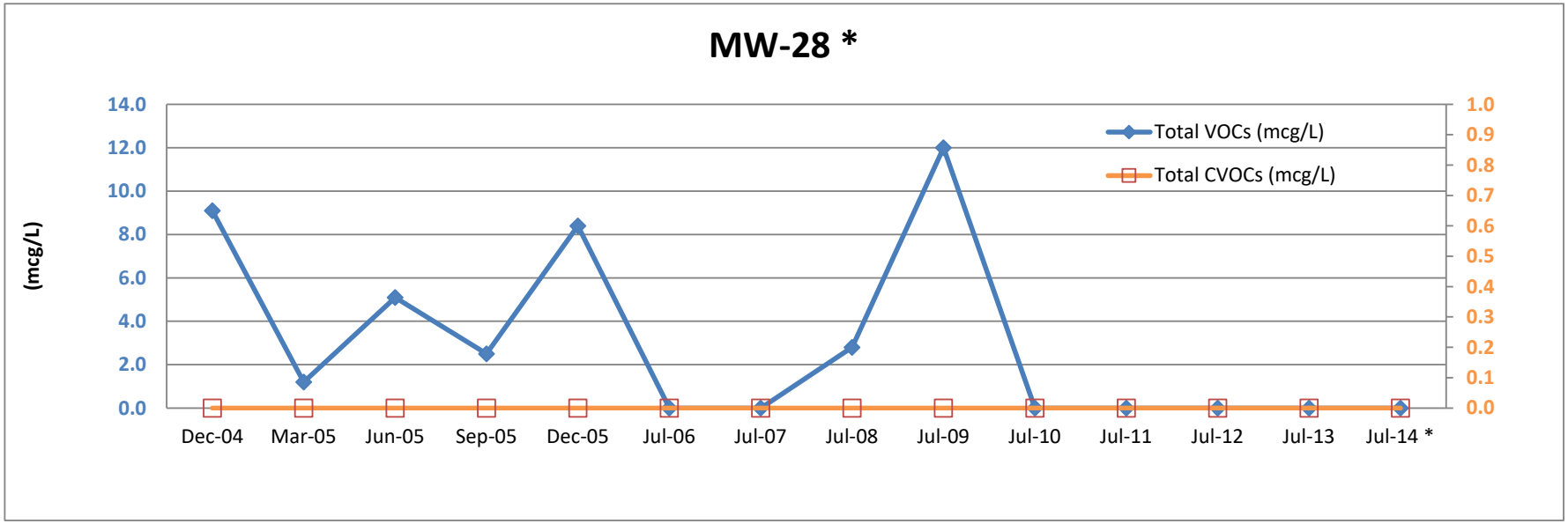




* - Removed from annual monitoring program after 2014 sampling event.

Figure 7

Groundwater Monitoring Wells
Total VOCs Data Summary Graphs (1989 to Present)
Orangeburg Holdings - Lowe's Site



* - Removed from annual monitoring program after 2014 sampling event.

Tables

Table 1

Annual Groundwater Sampling Data Results (July 08, 2020)
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC	MW03-11S		MW03-12S		MW03-12D		MW03-14S		MW03-18S		MW03-18D		MW03-27S		MW03-27D		MW07-29		Trip Blank	
Lab Sample ID		Class GA	AD18045-006				AD18045-004		AD18045-001		AD18045-007		AD18045-008		AD18045-005		AD18045-003		AD18045-005		AD18045-009	
Date Sampled		Standards (a)	7/8/20		7/8/20		7/8/20		7/8/20		7/8/20		7/8/20		7/8/20		7/8/20		7/8/20		7/8/20	
			Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
VOCs (mcg/L)	**CAS No.**																					
1,1-Dichloroethane	75-34-4	5	ND	1.0	**No Sample**		ND	1.0	ND	1.0	**1.0**	1.0	**10**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	71-55-6	5	ND	1.0	**(Dry)**		ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	75-35-4	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	**1.7**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	75-09-2	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	74-87-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	75-00-3	5 GV	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	71-43-2	1	ND	0.5			ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	108-88-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	100-41-4	5	**1.5**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
m&p-Xylenes	108-38-3 106-42-3	5	**1.4**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	95-47-6	5	**4.9**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	91-20-3	10 GV	**110**	1.0			ND	1.0	**2.3**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	**3.8**	0.5			ND	0.5	**5.2**	0.5	ND	0.5	ND	0.5	**1.1**	0.5	ND	0.5	ND	0.5	ND	0.5
n-Propylbenzene	103-65-1	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	104-51-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	135-98-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	98-82-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	95-63-6	5	**1.3**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	108-67-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	100-42-5	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	67-64-1	50 GV	ND	5.0			ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
		Total VOCs:	*123*				*ND*		*7.5*		*1.0*		*12*		*1.1*		*ND*		*ND*		*ND*	
		Total CVOCs:	*ND*				*ND*		*ND*		*1.0*		*12*		*ND*		*ND*		*ND*		*ND*	
		Total BTEX:	*7.8*				*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*	

(a) - NYSDEC Part 703 & TOGS 1.1.1, June 1998.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.
mcg/L - micrograms per liter
GV - Guidance value.
NS - No standard or guidance value available.
RL - Reporting Limit
Note - The summarry table only provides the parameters detected in one or more of the samples historically at the site. The remainder of the parameters were below their respective detection limits.

Table 2

Annual Groundwater Sampling Data Results (July 27, 2021)
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC	MW03-11S		MW03-12S		MW03-12D		MW03-14S		MW03-18S		MW03-18D		MW03-27S		MW03-27D		MW07-29		Trip Blank	
Lab Sample ID		Class GA	AD25042-006				AD25042-004		AD25042-001		AD25042-007		AD25042-008		AD25042-002		AD25042-003		AD25042-005		AD25042-009	
Date Sampled		Standards (a)	7/27/21		7/27/21		7/27/21		7/27/21		7/27/21		7/27/21		7/27/21		7/27/21		7/27/21		7/27/21	
			Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
VOCs (mcg/L)	**CAS No.**																					
1,1-Dichloroethane	75-34-4	5	ND	1.0	**No Sample**		ND	1.0	ND	1.0	**1.2**	1.0	**11**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	71-55-6	5	ND	1.0	**(Dry)**		ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	75-35-4	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	75-09-2	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	74-87-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	75-00-3	5 GV	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	71-43-2	1	**0.65**	0.5			ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	108-88-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	100-41-4	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
m&p-Xylenes	108-38-3 106-42-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	95-47-6	5	**5.1**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	91-20-3	10 GV	**83**	1.0			ND	1.0	ND	1.0	**22**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	ND	0.5			ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
n-Propylbenzene	103-65-1	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	104-51-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	135-98-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	98-82-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	95-63-6	5	**1.2**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	108-67-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	100-42-5	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	67-64-1	50 GV	ND	5.0			ND	5.0	ND	5.0	ND	5.0	ND	5.0	**18**	5.0	ND	5.0	ND	5.0	ND	5.0
		Total VOCs:	*90*				*ND*		*ND*		*23.2*		*11*		*18.0*		*ND*		*ND*		*ND*	
		Total CVOCs:	*ND*				*ND*		*ND*		*1.2*		*11*		*ND*		*ND*		*ND*		*ND*	
		Total BTEX:	*5.8*				*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*	

(a) - NYSDEC Part 703 & TOGS 1.1.1, June 1998.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.
mcg/L - micrograms per liter
GV - Guidance value.
NS - No standard or guidance value available.
RL - Reporting Limit
Note - The summarry table only provides the parameters detected in one or more of the samples historically at the site. The remainder of the parameters were below their respective detection limits.

Table 3

Annual Groundwater Sampling Data Results (July 6, 2022)
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC	MW03-11S		MW03-12S		MW03-12D		MW03-14S		MW03-18S		MW03-18D		MW03-27S		MW03-27D		MW07-29		Trip Blank	
Lab Sample ID		Class GA	AD31861-006				AD31861-008		AD31861-001		AD31861-004		AD31861-005		AD31861-002		AD31861-003		AD31861-007		AD31861-009	
Date Sampled		Standards (a)	7/6/22		7/6/22		7/6/22		7/6/22		7/6/22		7/6/22		7/6/22		7/6/22		7/6/22		7/6/22	
			Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
VOCs (mcg/L)	**CAS No.**																					
1,1-Dichloroethane	75-34-4	5	ND	1.0	**No Sample**		ND	1.0	ND	1.0	ND	1.0	**11**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	71-55-6	5	ND	1.0	**(Dry)**		ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	75-35-4	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	**1.9**	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	75-09-2	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	74-87-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	75-00-3	5 GV	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	71-43-2	1	ND	0.5			ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	108-88-3	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	100-41-4	5	**1.1**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
m&p-Xylenes	108-38-3 106-42-3	5	**1.1**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	95-47-6	5	**3.1**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	91-20-3	10 GV	**90**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	**3.3**	0.87			ND	0.87	**1.5**	0.87	ND	0.87	ND	0.5	**0.92**	0.87	ND	0.87	ND	0.87	ND	0.87
n-Propylbenzene	103-65-1	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	104-51-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	135-98-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	98-82-8	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	95-63-6	5	**1.1**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	108-67-8	5	**3.0**	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	100-42-5	5	ND	1.0			ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	67-64-1	50 GV	**7.0**	5.0			**7.1**	5.0	**20**	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	**11**	5.0
		Total VOCs:	*110*				*7.1*		*21.5*		*ND*		*13*		*0.9*		*ND*		*ND*		*11*	
		Total CVOCs:	*ND*				*ND*		*ND*		*ND*		*13*		*ND*		*ND*		*ND*		*ND*	
		Total BTEX:	*5.3*				*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*		*ND*	

(a) - NYSDEC Part 703 & TOGS 1.1.1, June 1998.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.
mcg/L - micrograms per liter
GV - Guidance value.
NS - No standard or guidance value available.
RL - Reporting Limit
Note - The summarry table only provides the parameters detected in one or more of the samples historically at the site. The remainder of the parameters were below their respective detection limits.

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-11S																			
Date Sampled			Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																							
1,1-Dichloroethane	75-34-4	5	NA	<20	<50	**5.1**	<1.0	<1.0	<100	<1.0	<20	<2	<5	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	NA	<20	<50	<1.0	<1.0	<1.0	<100	<1.0	<20	<2	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	NA	<20	<50	<1.0	<1.0	<1.0	<100	<1.0	<20	<2	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	NA	<20	<50	<1.0	<1.0	<1.0	<100	<1.0	<20	<2	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	NA	<20	<50	<1.0	<1.0	<1.0	<100	<1.0	<20	<2	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1	<20	<25	**0.94**	**1.5**	**2.3**	<20	**1.4**	<10	**1.6**	**2.8**	<1.0	**1.3**	**0.87**	**1.0**	<0.5	<0.5	**0.64**	**0.66**	<1.0	**0.65**	<1.0
Toluene	108-88-3	5	**2.3**	<20	<50	**1.5**	**4.2**	**3.7**	<20	**1.9**	<20	<2	<5	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0	**1.1**	**1.1**	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	**5.8**	<20	<50	<1	**10**	**12**	<20	**6.8**	<20	<2	**29**	**5.7**	**5.6**	**3.1**	**2.7**	**1.6**	<1.0	**2.4**	**1.9**	**1.5**	<1.0	**1.1**
m&p-Xylenes	108-38-3 106-42-3	5	**6.5**	<20	<50	**2.7**	**5.4**	**6.5**	<40	**4.9**	<20	**3.9**	**11**	<1.0	**3.9**	**2.2**	**3.0**	**1.0**	<1.0	**1.6**	**1.5**	**1.4**	<1.0	**1.1**
o-Xylene	95-47-6	5	**4.7**	<20	<50	**3.4**	**7.2**	**7.5**	<20	**5.7**	<20	<2.0	**13**	<1.0	**6.2**	**4.3**	**6.0**	**4.0**	**4.2**	**4.2**	**3.5**	**4.9**	**5.1**	**3.1**
Naphthalene	91-20-3	10 GV	**1300**	**840**	**1300**	**330**	**450**	**370**	**440**	**540**	**970**	**550**	**430**	**290**	**140**	**100**	**110**	**67**	**46**	**180**	**250**	**110**	**83**	**90**
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	**1.7**	<10	<25	**1.1**	**1.1**	<1.0	<20	**7.2**	<10	**3.7**	**7.8**	**3.4**	**5.7**	**3.8**	**4.6**	**5.1**	**3.1**	**3.9**	**3.5**	**3.8**	<1.0	**3.3**
n-Propylbenzene	103-65-1	5	<1.0	<20	<50	<1.0	**3.0**	<1.0	<20	<1	<20	<2.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	**2.5**	<20	<50	**1.4**	<1.0	**3.2**	<20	<1	<20	<2.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	<1.0	<20	<50	<1.0	<1.0	<1.0	<20	<1	<20	<2.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	**0.85**	<20	<50	<1.0	**0.66**	<1.0	<20	<1	<20	<2.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	**4.5**	<20	<50	**2.3**	**4.6**	**5.0**	<20	**5.1**	<20	**5.6**	**13**	<1.0	**5.8**	**3.3**	**2.7**	**1.9**	**1.1**	**1.7**	**1.5**	**1.3**	**1.2**	**1.1**
1,3,5-Trimethylbenzene	108-67-8	5	**0.72**	<20	<50	<1.0	**1.4**	**1.6**	<20	**1.6**	<20	<2.0	<5	<1.0	<1.0	<1.0	<1.0	**1.1**	**3.3**	**4.2**	<1.0	<1.0	<1.0	**3.0**
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	<500	<5.0	<20	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.0**
		Total VOCs:	*1330*	*840*	*1300*	*348*	*489*	*412*	*440*	*575*	*970*	*565*	*507*	*299*	*169*	*118*	*131*	*81.7*	*59.2*	*200*	*264*	*123*	*90*	*110*
		Total CVOCs:	*ND*	*ND*	*ND*	*5.1*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*1.5*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*19*	*ND*	*ND*	*8.5*	*28*	*32*	*ND*	*21*	*ND*	*5.5*	*56*	*5.7*	*17*	*10.5*	*14*	*6.6*	*4.2*	*9.9*	*8.7*	*7.8*	*5.8*	*5.3*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-12D																						
Date Sampled			Mar-89	Jul-95	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Jul-06	Jul-07	Jul-08	Jul-09	Jul-10	Jul-11	Jul-12	Jul-13	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18	Jul-19	Jul-20	Jul-21	Jul-22
			Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts
VOCs (mcg/L)	**CAS No.**																									
1,1-Dichloroethane	75-34-4	5	**6.0**	**1.6**	NA	**0.82**	**0.85**	**0.78**	**0.76**	<1.0	<5.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	**1.0**	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	5	<1.0	<1.0	NA	<1.0	**0.54**	**0.68**	**0.61**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	NA	<1.0	<1.0	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	NA	**16**	**13**	**15**	**4.7**	**7.1**	**8.8**	**2.9**	**1.3**	**0.97**	**0.57**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**
		Total VOCs:	*7.0*	*1.6*	*16.0*	*13.8*	*19.3*	*6.2*	*8.5*	*8.8*	*2.9*	*1.3*	*2.1*	*0.6*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*7*
		Total CVOCs:	*7.0*	*1.6*	*ND*	*0.8*	*1.4*	*1.5*	*1.4*	*ND*	*ND*	*ND*	*1.1*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-14S																					
Date Sampled			Mar-89 Rslts	Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																									
1,1-Dichloroethane	75-34-4	5	**1.0**	**1.3**	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	74-87-3	5	<1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0
Benzene	71-43-2	1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**93**	<1.0	<1.0	<1.0
Toluene	108-88-3	5	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**13**	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	NA	<1.0	<1.0	**4.4**	**4.8**	<1.0	**1.7**	<1.0	**2.5**	**2.5**	**2.1**	<1.0	**2.5**	<1.0	<1.0	<1.0	<1.0	**3.5**	**2.8**	<1.0	**2.3**	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	NA	<1.0	<1.0	**18**	**11**	**1.1**	**24**	**10**	**18**	<0.5	**10**	<0.5	**9.3**	**2.8**	**0.73**	**8.0**	**8.0**	**5.5**	**6.4**	<1.0	**5.2**	<1.0	**1.5**
n-Propylbenzene	103-65-1	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.7**	<1.0	<1.0	<1.0	<1.0
Styrene	100-42-5	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**20**
		Total VOCs:	*1.0*	*1.3*	*ND*	*ND*	*22.4*	*15.8*	*1.1*	*25.7*	*24.5*	*20.5*	*2.5*	*12.1*	*ND*	*11.8*	*2.8*	*0.7*	*8.0*	*8.0*	*9.0*	*11.9*	*111*	*7.5*	*ND*	*21.5*
		Total CVOCs:	*1.0*	*1.3*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*10.0*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*4.5*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*109.3*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-18S																					
Date Sampled			Mar-89	Jul-95	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Jul-06	Jul-07	Jul-08	Jul-09	Jul-10	Jul-11	Jul-12	Jul-13	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18	Jul-19	Jul-20	Jul-21	Jul-22
			Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts	Rslts
VOCs (mcg/L)	**CAS No.**																									
1,1-Dichloroethane	75-34-4	5	**480**	**230**	NA	**2.3**	**1.6**	**2.9**	**2.6**	**2.5**	**2.3**	<1.0	<1.0	<1.0	**1.6**	**1.2**	**1.5**	**1.1**	**2.5**	**1.9**	<1.0	<1.0	**1.1**	**1.0**	**1.2**	<1.0
1,1,1-Trichloroethane	71-55-6	5	**14**	**59**	NA	**0.65**	<1.0	<1.0	**1.2**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<1.0	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	156-59-2		<1.0	<10	NA	<1.0	<1.0	**0.52**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	**5.0**	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<1.0	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	**60**	**26**	NA	**4.1**	**1.5**	**2.5**	**2.0**	**2.1**	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<10	**1.2**	<1.0	<1.0	<1.0	**0.6**	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	NA	**25**	**14**	**17**	**10**	**12**	**8.6**	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.1**	<1.0	<1.0	<1.0	**51**	<1.0	<1.0	<1.0	**22**	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87
n-Propylbenzene	103-65-1	5	NA	NA	**2.2**	**1.9**	**1.7**	**0.96**	**1.7**	**2.2**	**1.6**	**1.5**	**1.9**	<1.0	<1.0	**1.1**	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	NA	**3.8**	**3.0**	**3.1**	**1.8**	**2.6**	**3.9**	**1.5**	**1.1**	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	NA	**1.3**	**1.7**	**1.3**	**0.68**	**1.6**	**1.9**	**1.4**	**1.7**	**1.4**	<1.0	<1.0	**1.3**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	NA	**1.3**	**1.1**	<1.0	**0.59**	**0.91**	**1.2**	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	**6.4**	**5.2**	**8.0**	**4.3**	**5.1**	**5.6**	**2.5**	**1.9**	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*559*	*315*	*41.2*	*34.0*	*34.2*	*24.3*	*30.3*	*28.0*	*12.8*	*6.2*	*7.1*	*ND*	*1.6*	*3.6*	*11*	*1.1*	*2.5*	*1.9*	*52.4*	*ND*	*1.1*	*1.0*	*23.2*	*ND*
		Total CVOCs:	*559*	*315*	*ND*	*7.1*	*3.1*	*5.9*	*5.8*	*4.6*	*3.7*	*ND*	*ND*	*ND*	*1.6*	*1.2*	*3.0*	*1.1*	*2.5*	*1.9*	*ND*	*ND*	*1.1*	*1.0*	*1.2*	*ND*
		Total BTEX:	*ND*	*ND*	*1.2*	*ND*	*ND*	*ND*	*0.6*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*1.4*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-18D																					
Date Sampled			Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																							
1,1-Dichloroethane	75-34-4	5	**6.1**	NA	**22**	**29**	**29**	**6.6**	**22**	**26**	**23**	**23**	**20**	**19**	**18**	**17**	**16**	**14**	**15**	**14**	**12**	**9.9**	**10**	**11**	**11**
1,1,1-Trichloroethane	71-55-6	5	**1.1**	NA	<1.0	<1.0	**0.9**	**0.61**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	**5.9**	NA	**2.0**	**2.6**	**3.3**	<1.0	**2.2**	**3.3**	**2.3**	**3.2**	**2.3**	**2.9**	**2.3**	**2.7**	**2.0**	**2.2**	**3.1**	**2.1**	**2.1**	**1.1**	**1.7**	<1.0	**1.9**
1,2-Dichloroethane	107-06-2	5	**2.9**	NA	<1.0	**0.77**	**0.94**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	**0.59**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	<1.0	<1.0	**0.98**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	**1.1**	**1.0**	**0.81**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87
n-Propylbenzene	103-65-1	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*16.0*	*ND*	*24.0*	*33.4*	*34.1*	*7.2*	*24.2*	*29.3*	*25.3*	*27.3*	*23.3*	*22.7*	*20.9*	*19.7*	*18.0*	*16.2*	*18.1*	*16.1*	*14.1*	*11.0*	*11.7*	*11.0*	*12.9*
		Total CVOCs:	*16.0*	*ND*	*24.0*	*32.4*	*34.1*	*7.2*	*24.2*	*29.3*	*25.3*	*26.2*	*22.3*	*21.9*	*20.9*	*19.7*	*18.0*	*16.2*	*18.1*	*16.1*	*14.1*	*11.0*	*11.7*	*11.0*	*12.9*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
2.3 - **Bold** indicates parameter detected above analytical reporting limit.
6.1 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-27S																			
Date Sampled			Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																							
1,1-Dichloroethane	75-34-4	5	NA	**1.9**	**2.8**	**0.7**	**1.7**	ND	**1.3**	<1.0	**1.7**	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	NA	**1.4**	**2.3**	**0.77**	**1.7**	<1.0	**3.2**	<1.0	**2.8**	<1.0	**1.7**	<1.0	**2.3**	**2.1**	<1.0	**1.8**	**1.5**	**1.3**	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	156-59-2		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	**9.2**	**7.4**	**5.4**	**4.9**	**5.9**	**17**	**4.2**	**7.3**	**2.5**	<0.5	**1.6**	**3.3**	**1.2**	**4.0**	**2.1**	**2.5**	<0.5	**0.60**	**1.0**	**1.1**	<0.5	**0.92**
n-Propylbenzene	103-65-1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	**36**	<5.0	<5.0	<5.0	**23**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**18**	<5.0
		Total VOCs:	*9.2*	*10.7*	*10.5*	*6.4*	*9.3*	*17.0*	*8.7*	*7.3*	*5.3*	*36.0*	*3.3*	*3.3*	*4.6*	*30.2*	*2.1*	*5.6*	*1.5*	*1.9*	*1.0*	*1.1*	*18.0*	*0.9*
		Total CVOCs:	*ND*	*3.3*	*5.1*	*1.5*	*3.4*	*ND*	*4.5*	*ND*	*4.5*	*ND*	*1.7*	*ND*	*3.4*	*2.1*	*ND*	*3.1*	*1.5*	*1.3*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-27D																				
Date Sampled			Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																							
1,1-Dichloroethane	75-34-4	5	NA	**0.93**	**1.0**	**0.88**	**0.80**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	NA	**0.97**	**1.2**	**0.87**	**0.93**	**1.3**	**1.9**	**1.4**	**2.0**	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene	156-59-2		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	**2.0**	**1.4**	**1.4**	<1.0	**2.1**	**2.8**	**1.0**	**1.2**	**0.95**	<0.5	<0.5	<0.5	**0.58**	**0.72**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87
n-Propylbenzene	103-65-1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**22**	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*2.0*	*3.3*	*3.6*	*1.8*	*3.8*	*4.1*	*2.9*	*2.6*	*3.0*	*ND*	*ND*	*ND*	*0.6*	*3.7*	*ND*	*ND*	*ND*	*22.0*	*ND*	*ND*	*ND*	*ND*
		Total CVOCs:	*ND*	*1.9*	*2.2*	*1.8*	*1.7*	*1.3*	*1.9*	*1.4*	*2.0*	*ND*	*ND*	*ND*	*ND*	*1.6*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW07-29														
Date Sampled			Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 Rslts	Jul-15 Rslts	Jul-16 Rslts	Jul-17 Rslts	Jul-18 Rslts	Jul-19 Rslts	Jul-20 Rslts	Jul-21 Rslts	Jul-22 Rslts
VOCs (mcg/L)	**CAS No.**																	
1,1-Dichloroethane	75-34-4	5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene	156-59-2		<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87
n-Propylbenzene	103-65-1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	<25	<5.0	**55**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*ND*	*ND*	*56.1*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total CVOCs:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
67 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-11D														
Date Sampled			Mar-89 Rslts	Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 * Rslts
VOCs (mcg/L)	**CAS No.**																	
1,1-Dichloroethane	75-34-4	5	<1.0	**0.7**	NA	<20	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<1.0	<1.0	NA	<20	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<1.0	<1.0	NA	<20	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<1.0	<1.0	NA	<20	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1.0	<1.0	NA	<20	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	**5.2**	<20	**1.7**	**0.56**	**0.93**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	**11**	<20	**6.1**	**1.9**	**4.5**	**3.1**	<1.0	**1.1**	**1.1**	**13**	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	**3.5**	<20	**3.8**	**1.2**	**2.6**	**2.2**	<2.0	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	**8.2**	<20	**4.3**	**1.4**	**2.7**	**2.4**	<1.0	**1.2**	<1.0	**6.6**	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	NA	**680**	**500**	**490**	**210**	**460**	**280**	**130**	**72**	**26**	**5.0**	**1.7**	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	NA	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	5	NA	NA	<1.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	NA	**1.9**	<20	**2.3**	<1.0	**1.6**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	NA	<1.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	NA	<1.0	<20	**0.51**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	**2.9**	<20	**3.4**	**1.3**	**2.5**	**2.4**	**1.3**	**1.6**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	**1.1**	<20	**1.1**	<1.0	**0.66**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*ND*	*0.7*	*714*	*500*	*513*	*216*	*475*	*291*	*131*	*75.9*	*29.6*	*24.6*	*1.7*	*ND*	*ND*	*ND*
		Total CVOCs:	*ND*	*0.7*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*27.9*	*ND*	*15.9*	*5.1*	*10.7*	*7.7*	*ND*	*2.3*	*2.3*	*19.6*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
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1.6 - **Bold** indicates parameter detected above analytical reporting limit.
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GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter
* - Removed from sampling program after July 2014 sampling event.

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-14D													
Date Sampled			Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 * Rslts
VOCs (mcg/L)	**CAS No.**																
1,1-Dichloroethane	75-34-4	5	**0.9**	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	**2.8**	<0.5
n-Propylbenzene	103-65-1	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*0.9*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*2.8*	*1.2*
		Total CVOCs:	*0.9*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
1.6 - **Bold** indicates parameter detected above analytical reporting limit.
* **67** - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter
* - Removed from sampling program after July 2014 sampling event.

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID / Date Sampled		NYSDEC Stds (a)	MW03-25													
			Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 * Rslts
VOCs mcg/L)	**CAS No.**																
1,1-Dichloroethane	75-34-4	5	**1.3**	NA	**2.7**	**2.4**	**2.7**	**0.54**	**2.4**	**3.9**	**4.2**	**2.9**	**2.8**	**2.1**	**1.1**	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	156-59-2	5	<10	NA	<1.0	<1.0	**0.58**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	**1.8**	<1.0	<1.0	**0.51**	<1.0	<1.0	**1.1**	<1.0	**1.2**	**0.95**	**0.65**	**0.68**	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	**1.8**	**2.7**	**1.2**	**0.56**	**8.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyclohexane	110-82-7	NS	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	103-65-1	5	NA	<1.0	<1.0	**0.53**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	<1.0	<1.0	**0.53**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	<1.0	<1.0	**0.54**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*3.1*	*1.8*	*5.4*	*5.7*	*3.8*	*9.4*	*3.5*	*7.5*	*6.8*	*3.9*	*3.5*	*2.8*	*1.1*	*1.2*	*ND*
		Total CVOCs:	*1.3*	*ND*	*2.7*	*2.4*	*3.3*	*0.5*	*2.4*	*6.1*	*4.2*	*2.9*	*2.8*	*2.1*	*1.1*	*ND*	*ND*
		Total BTEX:	*1.8*	*ND*	*ND*	*0.5*	*ND*	*ND*	*1.1*	*ND*	*1.2*	*1.0*	*0.7*	*0.7*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
2.3 - **Bold** indicates parameter detected above analytical reporting limit.
6.1 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter
* - Removed from sampling program after July 2014 sampling event.

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID / Date Sampled		NYSDEC Stds (a)	MW03-26													
			Jul-95 Rslts	Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 * Rslts
VOCs (mcg/L)	**CAS No.**																
1,1-Dichloroethane	75-34-4	5	<1.0	NA	**5.1**	**7.1**	**8.7**	<1.0	**6.1**	**6.7**	**6.2**	**7.3**	**4.8**	**3.0**	**4.9**	**3.7**	**2.7**
1,1,1-Trichloroethane	71-55-6	5	**3.3**	NA	**1.2**	**1.1**	**4.3**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	5	<10	NA	<1.0	<1.0	**0.6**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	<10	NA	<1.0	<1.0	**1.5**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	156-59-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	<10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	NA	<1.0	<1.0	**1.6**	**0.68**	**0.87**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	5	NA	<1.0	<1.0	**0.53**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	NA	<1.0	<1.0	**0.53**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	NA	<1.0	<1.0	**0.54**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*3.3*	*ND*	*6.3*	*11.4*	*15.8*	*0.9*	*6.1*	*6.7*	*6.2*	*7.3*	*4.8*	*3.0*	*4.9*	*3.7*	*2.7*
		Total CVOCs:	*3.3*	*ND*	*6.3*	*8.2*	*15.1*	*ND*	*6.1*	*6.7*	*6.2*	*7.3*	*4.8*	*3.0*	*4.9*	*3.7*	*2.7*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
2.3 - **Bold** indicates parameter detected above analytical reporting limit.
6.1 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter
* - Removed from sampling program after July 2014 sampling event.

Table 4

Historical Groundwater Sampling Data Summary
Former Orangeburg Pipe Manufacturing Facility (Lowe's Home Center)

HDR Sample ID		NYSDEC Stds (a)	MW03-28												
Date Sampled			Dec-04 Rslts	Mar-05 Rslts	Jun-05 Rslts	Sep-05 Rslts	Dec-05 Rslts	Jul-06 Rslts	Jul-07 Rslts	Jul-08 Rslts	Jul-09 Rslts	Jul-10 Rslts	Jul-11 Rslts	Jul-12 Rslts	Jul-13 Rslts	Jul-14 * Rslts
VOCs (mcg/L)	**CAS No.**															
1,1-Dichloroethane	75-34-4	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	79-01-6	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	156-59-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	75-09-2	5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	5 GV	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	71-43-2	1	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	108-38-3 106-42-3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	95-47-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	91-20-3	10 GV	**9.1**	**1.2**	<1.0	**2.5**	**8.4**	<1.0	<1.0	**2.8**	**12**	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	<1.0	<1.0	**5.1**	<0.5	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	104-51-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	98-82-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95-63-6	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108-67-8	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	67-64-1	50 GV	NA	NA	NA	NA	NA	NA	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Total VOCs:	*9.1*	*1.2*	*5.1*	*2.5*	*8.4*	*ND*	*ND*	*2.8*	*12.0*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total CVOCs:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
		Total BTEX:	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

(a) - NYSDEC TOGS 1.1.1 GA Standards, June 1998.
<1 - Result was not detected at the listed reporting limit.
ND - Not detected at analytical reporting limit.
2.3 - **Bold** indicates parameter detected above analytical reporting limit.
6.1 - **Bold** & color indicates exceedance of applicable standard or guidance value.

GV - Guidance value.
NA - Not Analyzed.
RL - Reporting Limit
Note - The results represent detected parameters only.
mcg/L - micrograms per liter
* - Removed from sampling program after July 2014 sampling event.

Appendix A

Cap Maintenance and/or Repair Documentation

FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Concrete Slab Replacement Activity Garden Area – October 2020

Photos of Replaced Concrete Slab Areas

FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Concrete Slab Replacement Activity Garden Area – October 2020

Photos of Replaced Concrete Slab Areas

FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

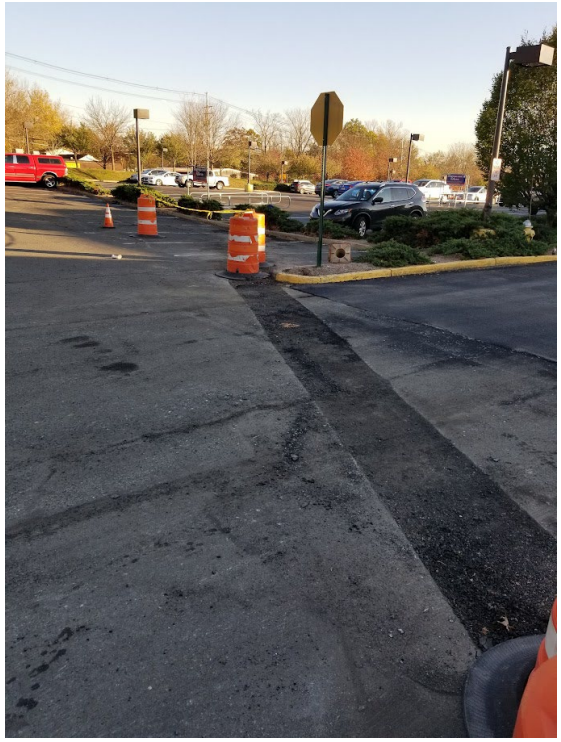
PHOTO LOG – Asphalt Milling & Replacement Activity – October 2020

FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Catch Basin Installation – October 2020

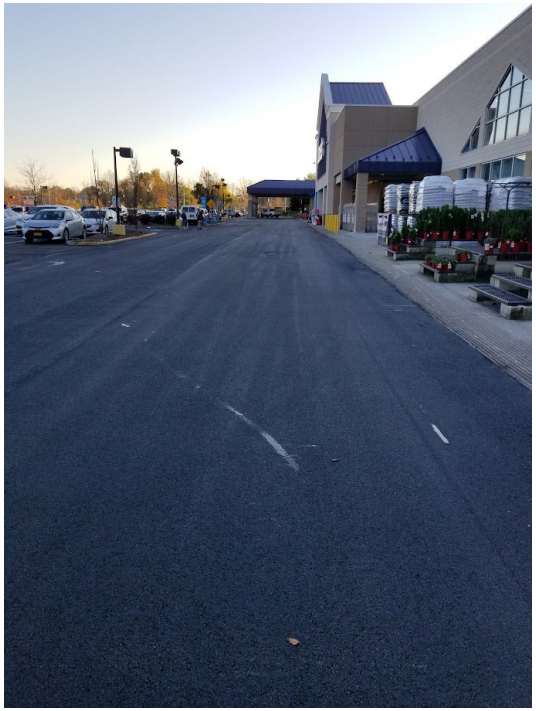


FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Asphalt Replacement – October 2020



FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Concrete Replacement of Grass Island– December 2022

Appendix B

IC/EC Certification

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00579

Site Name Former Orangeburg Pipe Mfg-Lowe's Site

Site Address: Route 303 Zip Code: 10962
City/Town: Orangetown
County: Rockland
Site Acreage: 12.400

Reporting Period: March 28, 2020 to March 28, 2023

	YES	NO
1. Is the information above correct? correct address is 206 Route 303	☐	X
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?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
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?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

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

SITE NO. V00579 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
0740150001003	Orangeburg Holdings, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction

NOW, THEREFORE, Orangeburg Holdings, LLC, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions, is as shown on a map attached to this declaration as Appendix "B" and made a part hereof, and consists of the real property described by etes and bounds on Appendix "A".

Second, unless prior written approval by the New York State Department of Environmental Conservation or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property, which threatens the integrity of the soil cap, or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall maintain the cap covering the Property by maintaining its grass cover or, after obtaining the written approval of the Relevant Agency, by capping the Property with another material.

Fourth, the owner of the Property shall prohibit the Property fiom ever being used for purposes other than for restricted commercial use excluding day care, child care and medical care uses without the express written waiver of such prohibition by the Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Sixth, the owner of the Property shall continue in full force and effect any institutional and engineering controls required under the Agreement and maintain such controls unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

Seventh, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner, and its successors and assigns, consents to enforcement by the Relevant Agency of the prohibitions and restrictions that Paragraph X of the Agreement requires to be recorded, and hereby covenants not to contest the authority of the Relevant Agency to seek enforcement.

Eighth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and resrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
0740150001003	Cover System

Box 5

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 compete.

YES	NO
X	☐

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
X	☐

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. V00579

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 Steven Kolitch at 550 SE 5th Avenue, #703-S, Boca Raton, FL 33432,
print name print business address

am certifying as Owner's designated representative (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

4/26/23
Date

EC CERTIFICATIONS

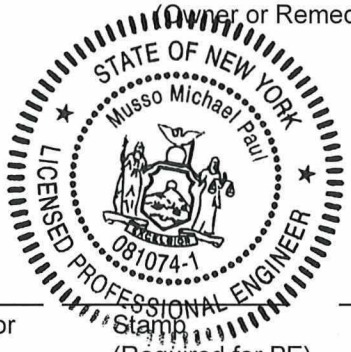
Box 7

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 Michael P. Musso, P.E. (NY) at HDR Engineering* 711 Westchester Avenue, White Plains, NY 10604-3504,
print name print business address

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



Michael P. Musso — 4/28/2023

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

*Henningson, Durham & Richardson Architecture and Engineering, P.C. in association with HDR Engineering, Inc.

Appendix C

Well Monitoring Data Sheets

Groundwater Sampling Logs

July 2020

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-14S
Well Condition:	Good
Well Depth/Diameter:	24' / 2"
Well Casting Type:	PVC
Screened Interval:	14' - 24'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	9.79
Water Column Ht./Volume:	14.21 / 2.32
Purge Estimate:	6.96
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	0743 - 0746
Depths:	Bottom 24'
Rate (gpm):	1
Purged Volume:	3 Gallons
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Very turbid starting

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	10.72
Sample Date/Time:	08-Jul-2020 / 0805
Sampling Method:	Teflon Bailer
Sampling Depth:	10.72
DTW After Sampling:	-
Sample ID:	MW03-14S_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
22	94%	SSE	3 MPH	100%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-27S
Well Condition:	Good
Well Depth/Diameter:	24.3' / 2"
Well Casting Type:	PVC
Screened Interval:	14.6' - 24.6'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	10.57
Water Column Ht./Volume:	14.03 / 2.29
Purge Estimate:	6.87
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	0834 - 0839
Depths:	Bottom
Rate (gpm):	1.4
Purged Volume:	7 Gallons
DTW After Purging:	10.48
Yeild Rate:	Good
Purge Observations:	Started Turbid, Cleared towards End

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	10.42
Sample Date/Time:	08-Jul-2020 / 0850
Sampling Method:	Teflon Bailer
Sampling Depth:	10.42
DTW After Sampling:	
Sample ID:	MW03-27S_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
22	94%	SSE	3 MPH	100%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 27D
Well Condition:	Good
Well Depth/Diameter:	33.7' - 2"
Well Casting Type:	PVC
Screened Interval:	29.0' - 34.0'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	8.52
Water Column Ht./Volume:	25.18 / 4.1
Purge Estimate:	12.3
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	0859 - 0913
Depths:	Bottom
Rate (gpm):	0.9
Purged Volume:	12.5 Gallons
DTW After Purging:	8.92
Yeild Rate:	Good
Purge Observations:	Started very Turb., Slightly Turb. At end

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	8.52
Sample Date/Time:	08-Jul-2020 / 0925
Sampling Method:	Teflon Bailer
Sampling Depth:	8.52
DTW After Sampling:	-
Sample ID:	MW09-27D_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
22	94%	SSE	3 MPH	100%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12S
Well Condition:	Fair
Well Depth/Diameter:	13.5' / 2"
Well Casting Type:	PVC
Screened Interval:	8.5' - 13.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	Dry
Water Column Ht./Volume:	-
Purge Estimate:	-
Purge Method:	-
Purge Date:	-
Purge Time:	-
Depths:	-
Rate (gpm):	-
Purged Volume:	-
DTW After Purging:	-
Yeild Rate:	-
Purge Observations:	Well Dry

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	-
Sample Date/Time:	-
Sampling Method:	-
Sampling Depth:	-
DTW After Sampling:	-
Sample ID:	-
Analytical Labs:	-
Sampling Observation:	-

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Well is under juniper bush. Well is dry.

No J-plug.

Crew Chief Signature: 

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
26	79%	SE	8 MPH	95%	None

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12D
Well Condition:	Good
Well Depth/Diameter:	21' / 2"
Well Casting Type:	PVC
Screened Interval:	11' - 21'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	10.59
Water Column Ht./Volume:	10.41 / 1.7
Purge Estimate:	5.1
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	1015 - 1035
Depths:	Bottom
Rate (gpm):	0.25
Purged Volume:	5 gallons
DTW After Purging:	10.52
Yeild Rate:	Good
Purge Observations:	Slightly Turbid at beginiing to clear.

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	10.52
Sample Date/Time:	08-Jul-2020 / 01040
Sampling Method:	Teflon Bailer
Sampling Depth:	10.52
DTW After Sampling:	-
Sample ID:	MW03-12D_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Well is under Juniper Bush.

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
26	79%	SE	8 MPH	95%	None

Crew Chief Signature: 

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW07 - 29
Well Condition:	Fair
Well Depth/Diameter:	13.3' / 1.25"
Well Casting Type:	PVC
Screened Interval:	4' - 14'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	7.3
Water Column Ht./Volume:	6.7 / 0.4
Purge Estimate:	1.2
Purge Method:	Hand Bailer
Purge Date:	8-Jul-20
Purge Time:	1155 - 1200
Depths:	Bottom
Rate (gpm):	0.2
Purged Volume:	1
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	9.16
Sample Date/Time:	08-Jul-2020 / 1250
Sampling Method:	Teflon Bailer
Sampling Depth:	9.16
DTW After Sampling:	-
Sample ID:	MW07-29 _7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
27	72%	ightly Turb	9 MPH	85%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 11S
Well Condition:	Good
Well Depth/Diameter:	15.3' / 2"
Well Casting Type:	PVC
Screened Interval:	10.5' - 15.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	11.36
Water Column Ht./Volume:	3.94 / 0.6
Purge Estimate:	1.8
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	1131 - 1132
Depths:	Bottom
Rate (gpm):	1
Purged Volume:	1 gallon
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Slightly Turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	12.02
Sample Date/Time:	08-Jul-2020 / 1300
Sampling Method:	Teflon Bailer
Sampling Depth:	12.02
DTW After Sampling:	-
Sample ID:	MW03-11S_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
27	72%	S	9 MPH	85%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18S
Well Condition:	Good
Well Depth/Diameter:	10.8' / 2"
Well Casting Type:	PVC
Screened Interval:	4' - 11'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	7.71
Water Column Ht./Volume:	3.09 / 0.5
Purge Estimate:	1.5
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	1352 - 1353
Depths:	Bottom
Rate (gpm):	1
Purged Volume:	1.5 Gallons
DTW After Purging:	7.82
Yeild Rate:	Good
Purge Observations:	Clear
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	7.82
Sample Date/Time:	08-Jul-2020 / 1355
Sampling Method:	Teflon Bailer
Sampling Depth:	7.82
DTW After Sampling:	-
Sample ID:	MW03-18S_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
29	65%	SSE	12 MPH	90%	None

Crew Chief Signature:

Date: 8-Jul-20

HDR Well Sampling Log

Date:	8-Jul-20
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18D
Well Condition:	Good
Well Depth/Diameter:	34.8' / 2"
Well Casting Type:	PVC
Screened Interval:	30.5' - 35.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	6.92
Water Column Ht./Volume:	27.88 / 4.5
Purge Estimate:	13.5
Purge Method:	Whale Pump
Purge Date:	8-Jul-20
Purge Time:	1334 - 1341
Depths:	Bottom
Rate (gpm):	0.8
Purged Volume:	5.5 Gallons
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Clear

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	13.12
Sample Date/Time:	08-Jul-2020 / 1410
Sampling Method:	Teflon Bailer
Sampling Depth:	13.12
DTW After Sampling:	-
Sample ID:	MW03-18D_7/20
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
29	65%	SSE	12 MPH	90%	None

Crew Chief Signature:

Date: 8-Jul-20

Groundwater Sampling Logs

July 2021

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-14S
Well Condition:	Good
Well Depth/Diameter:	24' / 2"
Well Casting Type:	PVC
Screened Interval:	14' - 24'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	9.12
Water Column Ht./Volume:	14.88/2.4
Purge Estimate:	7.2
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	07:51 - 07:58
Depths:	bottom 24'
Rate (gpm):	1
Purged Volume:	7 Gallons
DTW After Purging:	16.7
Yeild Rate:	Good
Purge Observations:	Turbid - Slightly turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	10.5
Sample Date/Time:	7/27/2021 / 08:10
Sampling Method:	Teflon Bailer
Sampling Depth:	10.5
DTW After Sampling:	-
Sample ID:	MW03-14S_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Water in vault

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
21	78%	WNW	5 MPH	0%	None

Crew Chief Signature: 

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-27S
Well Condition:	Good
Well Depth/Diameter:	24.3' / 2"
Well Casting Type:	PVC
Screened Interval:	14.6' - 24.6'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	9.7
Water Column Ht./Volume:	14.90 / 2.4
Purge Estimate:	7.2 Gallons
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	08:34 - 08:40
Depths:	Bottom
Rate (gpm):	1.25
Purged Volume:	7.5 Gallons
DTW After Purging:	10.16
Yeild Rate:	Good
Purge Observations:	Slightly turbid - Clear
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	10.12
Sample Date/Time:	7/27/2021 / 09:15
Sampling Method:	Teflon Bailer
Sampling Depth:	10.12
DTW After Sampling:	-
Sample ID:	MW03-27S_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Water in vault, Ear Jammed with broken bolt.

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
23	76%	ightly Turb	3 MPH	0%	None

Crew Chief Signature:

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 27D
Well Condition:	Good
Well Depth/Diameter:	33.7' - 2"
Well Casting Type:	PVC
Screened Interval:	29.0' - 34.0'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	8.23
Water Column Ht./Volume:	25.57 / 4.2
Purge Estimate:	12.6
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	08:51 - 09:06
Depths:	Bottom
Rate (gpm):	0.83
Purged Volume:	12.5
DTW After Purging:	8.98
Yeild Rate:	good
Purge Observations:	Slightly Turbid

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	8.9
Sample Date/Time:	7/27/2021 / 09:20
Sampling Method:	Teflon Bailer
Sampling Depth:	8.9
DTW After Sampling:	-
Sample ID:	MW03-27D_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Water in vault, Ear broken.

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
23	76%	S	3 Mph	0%	None

Crew Chief Signature: 

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12S
Well Condition:	Fair
Well Depth/Diameter:	13.5' / 2"
Well Casting Type:	PVC
Screened Interval:	8.5' - 13.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	-
Water Column Ht./Volume:	-
Purge Estimate:	-
Purge Method:	-
Purge Date:	27-Jul-21
Purge Time:	-
Depths:	-
Rate (gpm):	-
Purged Volume:	-
DTW After Purging:	-
Yeild Rate:	-
Purge Observations:	-

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	-
Sample Date/Time:	-
Sampling Method:	-
Sampling Depth:	-
DTW After Sampling:	-
Sample ID:	-
Analytical Labs:	-
Sampling Observation:	-

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

No Sample

Comments: Well is under juniper bush. Well is dry.

No J-plug.

Crew Chief Signature: 

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
26	56%	N/A	0	0%	None

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12D
Well Condition:	Good
Well Depth/Diameter:	21' / 2"
Well Casting Type:	PVC
Screened Interval:	11' - 21'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	10.94
Water Column Ht./Volume:	10.06 / 1.8
Purge Estimate:	5.4
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	09:51 - 10:00
Depths:	Bottom
Rate (gpm):	0.61
Purged Volume:	5.5
DTW After Purging:	13.48
Yeild Rate:	Good
Purge Observations:	Slightly turbid - Clear
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	11.54
Sample Date/Time:	7/27/2021 / 10:30
Sampling Method:	Teflon Bailer
Sampling Depth:	11.54
DTW After Sampling:	-
Sample ID:	MW03-12D_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Well is under Juniper Bush.

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
26	56%	NA	0	0%	None

Crew Chief Signature: 

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW07 - 29
Well Condition:	Fair
Well Depth/Diameter:	13.3' / 1.25"
Well Casting Type:	PVC
Screened Interval:	4' - 14'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	6.62
Water Column Ht./Volume:	7.38 / 0.5
Purge Estimate:	1.5
Purge Method:	Hand Bailer
Purge Date:	27-Jul-21
Purge Time:	11:03 - 11:13
Depths:	Bottom
Rate (gpm):	0.075
Purged Volume:	0.75
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	7.28
Sample Date/Time:	7/27/2021 / 12:30
Sampling Method:	Teflon Bailer
Sampling Depth:	7.28
DTW After Sampling:	-
Sample ID:	MW07-29_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
27	53%	NW	5 Mph	0%	None

Crew Chief Signature:

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 11S
Well Condition:	Good
Well Depth/Diameter:	15.3' / 2"
Well Casting Type:	PVC
Screened Interval:	10.5' - 15.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	11.52
Water Column Ht./Volume:	3.98 / 0.64
Purge Estimate:	1.92
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	10:46 - 10:47
Depths:	Bottom
Rate (gpm):	1
Purged Volume:	1
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	11.84
Sample Date/Time:	7/27/2021 / 12:40
Sampling Method:	Teflon Bailer
Sampling Depth:	11.84
DTW After Sampling:	-
Sample ID:	MW03-11S_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
27	53%	NW	5 Mph	0%	None

Crew Chief Signature:

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18S
Well Condition:	Good
Well Depth/Diameter:	10.8' / 2"
Well Casting Type:	PVC
Screened Interval:	4' - 11'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	7.5
Water Column Ht./Volume:	3.30 / 0.5
Purge Estimate:	1.5
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	13:44 - 13:45
Depths:	Bottom
Rate (gpm):	1.5
Purged Volume:	1.5
DTW After Purging:	7.6
Yeild Rate:	Good
Purge Observations:	Clear

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	7.6
Sample Date/Time:	7/27/2021 / 13:50
Sampling Method:	Teflon Bailer
Sampling Depth:	7.6
DTW After Sampling:	-
Sample ID:	MW03-18S_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
30	43%	N	6 Mph	0%	None

Crew Chief Signature: 

Date: 27-Jul-21

HDR Well Sampling Log

Date:	27-Jul-21
Crew:	MTP/DK
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18D
Well Condition:	Good
Well Depth/Diameter:	34.8' / 2"
Well Casting Type:	PVC
Screened Interval:	30.5' - 35.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	6.17
Water Column Ht./Volume:	28.63 / 6.17
Purge Estimate:	14.1
Purge Method:	Whale Pump
Purge Date:	27-Jul-21
Purge Time:	13:03 - 13:37
Depths:	Bottom
Rate (gpm):	0.41
Purged Volume:	29.93
DTW After Purging:	Poor
Yeild Rate:	29.93
Purge Observations:	Slightly turbid - Clear

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	8.6
Sample Date/Time:	7/27/2021 / 14:15
Sampling Method:	Teflon Bailer
Sampling Depth:	8.6
DTW After Sampling:	-
Sample ID:	MW03-18D_7/21
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start						
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
30	43%	N	6 Mph	0%	None

Crew Chief Signature:

Date: 27-Jul-21

Groundwater Sampling Logs

July 2022

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-14S
Well Condition:	Good
Well Depth/Diameter:	24' / 2"
Well Casting Type:	PVC
Screened Interval:	14' - 24'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	9.42
Water Column Ht./Volume:	14.58 / 2.3
Purge Estimate:	6.9
Purge Method:	Whale Pump
Purge Date:	7-Jul-22
Purge Time:	0838 - 0849
Depths:	bottom 24'
Rate (gpm):	0.36
Purged Volume:	4 gal
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
	N/A					

Well Data: Sample

DTW Before Sampling:	10.11
Sample Date/Time:	7/6/2022
Sampling Method:	Teflon Bailer
Sampling Depth:	10.11
DTW After Sampling:	-
Sample ID:	MW03-14S_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Water in vault

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
77	77%	NW	7	78%	

Crew Chief Signature: 

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03-27S
Well Condition:	Good
Well Depth/Diameter:	24.3' / 2"
Well Casting Type:	PVC
Screened Interval:	14.6' - 24.6'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	10.22
Water Column Ht./Volume:	14.38/2.4
Purge Estimate:	7.2
Purge Method:	Whale Pump
Purge Date:	7-Jul-22
Purge Time:	0935 - 0939
Depths:	Bottom
Rate (gpm):	1.75
Purged Volume:	7
DTW After Purging:	13.6
Yeild Rate:	Good
Purge Observations:	Turbid - Clear

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
	N/A					

Well Data: Sample

DTW Before Sampling:	10.55
Sample Date/Time:	7/6/2022 / 1000
Sampling Method:	Teflon Bailer
Sampling Depth:	10.55
DTW After Sampling:	-
Sample ID:	MW03-27S_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Water in vault, Ear Jammed with broken bolt. Missing bolt

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
79	70%	NW	8	65%	

Crew Chief Signature: 

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 27D
Well Condition:	Good
Well Depth/Diameter:	33.7' - 2"
Well Casting Type:	PVC
Screened Interval:	29.0' - 34.0'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	8.98
Water Column Ht./Volume:	25.02 / 4
Purge Estimate:	12
Purge Method:	Whale Pump
Purge Date:	6-Jul-22
Purge Time:	0949 - 0953
Depths:	Bottom
Rate (gpm):	1.875
Purged Volume:	7.5
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	10.7
Sample Date/Time:	7/6/2022 / 1010
Sampling Method:	Teflon Bailer
Sampling Depth:	10.7
DTW After Sampling:	-
Sample ID:	MW03-27D_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Slightly Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:	Ear broken.
Crew Chief Signature:	

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
79	70%	NW	8	65%	

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18S
Well Condition:	Good
Well Depth/Diameter:	10.8' / 2"
Well Casting Type:	PVC
Screened Interval:	4' - 11'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	7.7
Water Column Ht./Volume:	3.30 / 0.5
Purge Estimate:	1.5
Purge Method:	Whale Pump
Purge Date:	6-Jul-22
Purge Time:	1253 - 1254
Depths:	Bottom
Rate (gpm):	1.5
Purged Volume:	1.5
DTW After Purging:	7.75
Yeild Rate:	Good
Purge Observations:	Turbid - Slightly Turbid

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	7.75
Sample Date/Time:	7/6/2022
Sampling Method:	Teflon Bailer
Sampling Depth:	7.75
DTW After Sampling:	-
Sample ID:	MW03-18S_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
84	48%	NW	12	70%	

Crew Chief Signature: 

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12S
Well Condition:	Fair
Well Depth/Diameter:	13.5' / 2"
Well Casting Type:	PVC
Screened Interval:	8.5' - 13.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	Dry
Water Column Ht./Volume:	-
Purge Estimate:	-
Purge Method:	-
Purge Date:	6-Jul-22
Purge Time:	-
Depths:	-
Rate (gpm):	-
Purged Volume:	-
DTW After Purging:	-
Yeild Rate:	-
Purge Observations:	-

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	-
Sample Date/Time:	No sample
Sampling Method:	-
Sampling Depth:	
DTW After Sampling:	-
Sample ID:	MW03-12S_7/22
Analytical Labs:	-
Sampling Observation:	Well Dry

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

No Sample / Well Dry

Comments: Well is under juniper bush. Well is dry.

No J-plug.

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
82	52%	NW	10	90%	

Crew Chief Signature: 

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 18D
Well Condition:	Good
Well Depth/Diameter:	34.8' / 2"
Well Casting Type:	PVC
Screened Interval:	30.5' - 35.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	6.53
Water Column Ht./Volume:	28.97 / 4.8
Purge Estimate:	14.4
Purge Method:	Whale Pump
Purge Date:	6-Jul-22
Purge Time:	1243 - 1246
Depths:	Bottom
Rate (gpm):	1.6
Purged Volume:	5
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid - Clear

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	6.9
Sample Date/Time:	7/6/2022 1415
Sampling Method:	Teflon Bailer
Sampling Depth:	6.9
DTW After Sampling:	-
Sample ID:	MW03-18D_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
84	48%	NW	12	70%	

Crew Chief Signature:

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 11S
Well Condition:	Good
Well Depth/Diameter:	15.3' / 2"
Well Casting Type:	PVC
Screened Interval:	10.5' - 15.5'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	11.65
Water Column Ht./Volume:	4.08 / 0.5
Purge Estimate:	1.5
Purge Method:	Whale Pump
Purge Date:	6-Jul-22
Purge Time:	1112 - 1113
Depths:	Bottom
Rate (gpm):	1
Purged Volume:	1
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	12.75
Sample Date/Time:	7/6/2022 1425
Sampling Method:	Teflon Bailer
Sampling Depth:	12.75
DTW After Sampling:	-
Sample ID:	MW03-11S_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Turbid

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
81	61%	NW	4	65%	

Crew Chief Signature: 

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW07 - 29
Well Condition:	Fair
Well Depth/Diameter:	13.3' / 1.25"
Well Casting Type:	PVC
Screened Interval:	4' - 14'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	6.99
Water Column Ht./Volume:	6.31 / 0.4
Purge Estimate:	1.2
Purge Method:	Hand Bailer
Purge Date:	6-Jul-22
Purge Time:	1127 - 1137
Depths:	Bottom
Rate (gpm):	0.12
Purged Volume:	1.2
DTW After Purging:	13.01
Yeild Rate:	Poor
Purge Observations:	Clear
Oil Interface:	Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
N/A						

Well Data: Sample

DTW Before Sampling:	8.76
Sample Date/Time:	7/6/2022 1455
Sampling Method:	Teflon Bailer
Sampling Depth:	8.76
DTW After Sampling:	-
Sample ID:	MW07-29_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments:

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
82	60%	NW	5	65%	

Crew Chief Signature:

Date: 6-Jul-22

HDR Well Sampling Log

Date:	6-Jul-22
Crew:	MTP/MR
Job Number:	10016690
Project:	Annual Groundwater Sampling Event
Project Site:	Lowe's; Orangeburg, NY

Meter's Used

Tempurature:	N/A
pH:	N/A
Conductivity:	N/A
Orp:	N/A
Dissolved Oxegen:	N/A
Turbidity:	N/A

Well Data: Purge

Well ID No:	MW03 - 12D
Well Condition:	Good
Well Depth/Diameter:	21' / 2"
Well Casting Type:	PVC
Screened Interval:	11' - 21'
Casing Ht./Lock No:	Curb Box
Referance Point:	Top of Casing
Depth to Water (DTW):	7.4
Water Column Ht./Volume:	13.6 / 2.2
Purge Estimate:	6.6
Purge Method:	Whale Pump
Purge Date:	6-Jul-22
Purge Time:	1403 - 1405
Depths:	Bottom
Rate (gpm):	2
Purged Volume:	2
DTW After Purging:	Dry
Yeild Rate:	Poor
Purge Observations:	Turbid

Oil Interface: Y N N/A

Purge Chemistries

Volume	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)

Well Data: Sample

DTW Before Sampling:	11.55
Sample Date/Time:	7/6/2022 1445
Sampling Method:	Teflon Bailer
Sampling Depth:	11.55
DTW After Sampling:	-
Sample ID:	MW03-12D_7/22
Analytical Labs:	Hampton Clarke
Sampling Observation:	Clear

Sample Chemistries

	Temp. (°C)	pH	SPC@25	DO	Orp	Turbidity (NTU)
Start	N/A					
End						

Sample Analysis

8260 + Naphthalene (No Tics), special parameter list

Comments: Well is under Juniper Bush.

Well had a hornets nest, it was possibly destroyed 6-Jul-2022

Weather

Temp (°C)	Humidity	Wind Dir	Wind Speed	Cloud Cover	Precipitation
82	52%	NW	10	90%	

Crew Chief Signature: 

Date: 6-Jul-22

Appendix D

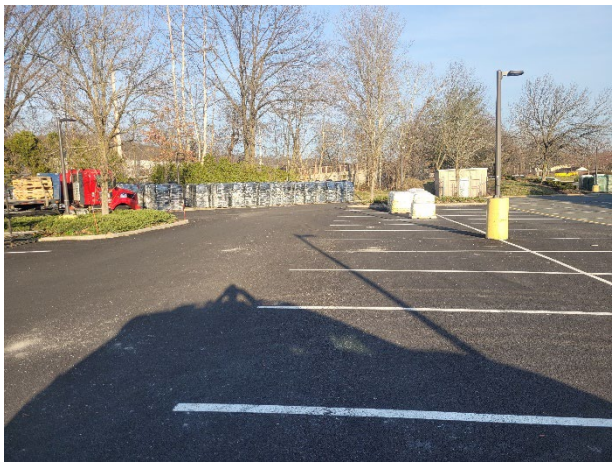
Cap Inspection
Photographs (March 2023)

FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Site Cap Condition – March 2023



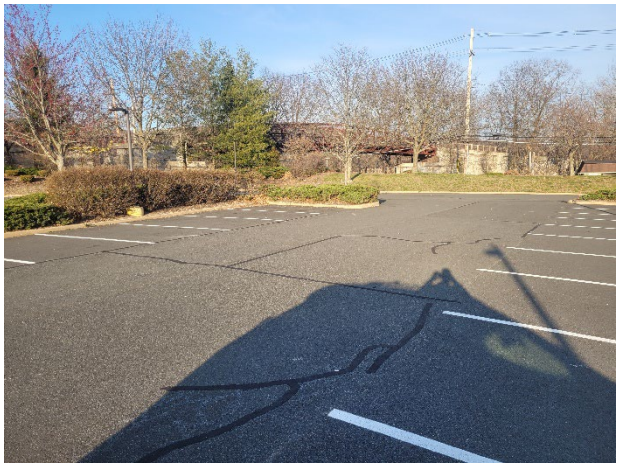
Photos of Site Cap

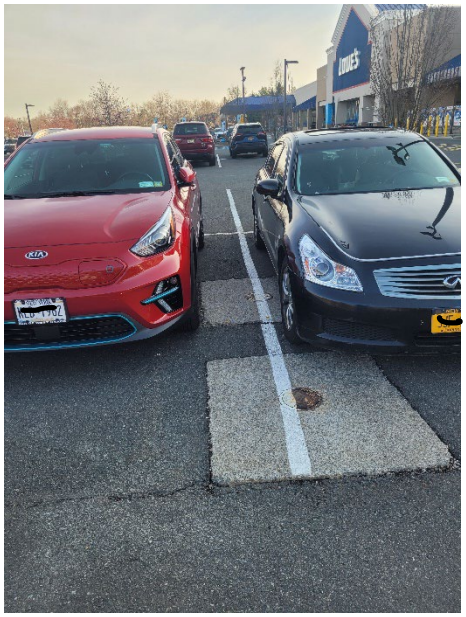
FORMER ORANGEBURG PIPE MANUFACTURING FACILITY – LOWE'S SITE

NYSDEC Site #: V-00579-3

NYSDEC Index #: W3-0930-02-07

PHOTO LOG – Site Cap Condition – March 2023





Photos of Site Cap