



New York State Department of Environmental Conservation – Division of Environmental Remediation

PERIODIC REVIEW REPORT

Gladding Cordage Site

Site Number 7-09-0097

June 2017

MITT

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Site Number 7-09-009

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ACRONYMS AND ABBREVIATIONS

EC Engineering Control

GPM Gallons per minute

IC Institutional Control

IRM Interim Remedial Measure

μg/L Micrograms per liter

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

O&M Operation and Maintenance

PDB Passive Diffusion Bag

PLC Program Logic Controller

RI/FS Remedial Investigation/Feasibility Study

ROD Record of Decision

1,1,1-TCA 1,1,1-trichlorethane

USEPA United States Environmental Protection Agency

UPS Uninterrupted Power Supply

SMP Site Management Plan

SVI Soil Vapor Intrusion

VOC Volatile Organic Compound

WA Work Assignment

1 EXECUTIVE SUMMARY

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (WA) (# D007618-9) to Arcadis CE, Inc. (Arcadis) for Operation, Maintenance, and Monitoring at the Gladding Cordage Site (NYSDEC site number 7-09-009) in New York State. This Periodic Review Report (PRR) documents the findings and observations associated with the monitoring program for the Site. The Gladding Cordage Site is the location of a rope and braided products manufacturing facility that was historically the location of unlawful storage and disposal of hazardous wastes. Various investigations beginning in 1984 determined that previous practices at the site resulted in contamination of groundwater, including the Town's municipal water supply well. Responsibility for investigation and cleanup activities became complicated by bankruptcy proceedings for the former owner and sale of the property to a new company. Once the bankruptcy and property transactions were negotiated, remediation activities and removal of waste from the site commenced. Remedial investigations, concluding in 1989, found that groundwater contamination extended off-site and that soil contamination was limited to the site and was a result of previous disposal practices. A Record of Decision (ROD) was issued in 1993 following completion of the Remedial Investigation/Feasibility Study (RI/FS). The objectives of the ROD were to minimize the potential for human exposure to the site-related contaminants; minimize the potential for off-site migration of site-related contaminants; and permanently contain, treat and/or dispose of contaminated media. A groundwater extraction and treatment system was installed in 1997 and operated until 2001. In 2004, NYSDEC resumed operations of the treatment system. Since 2007, the treatment system has operated continuously, with only limited interruptions for routine maintenance and power outages. Influent and post-treatment effluent samples from the treatment plant indicate that the system is effective at treating groundwater extracted from the recovery wells and that the concentrations of volatile organic compounds (VOCs) in the extraction wells has decreased over time. Groundwater sampling data from shallow, intermediate, and deep groundwater monitoring zones indicate that the primary VOC in the groundwater is 1,1,1-trichloroethane (1,1,1-TCA) and that the concentrations of 1,1,1-TCA have generally decreased over time. Currently, there are no recommended changes to the remediation strategy. The Institutional Controls and Engineering Controls (ICs/ECs) are effective in preventing human contact with residual contamination. No changes to the PRR submittal frequency are recommended.

2 SITE OVERVIEW

2.1 Location and Features

The Gladding Cordage Site is located at 110 County Road 13A, South Otselic, in Chenango County (Figure 2-1). The Site is approximately 7.5 acres and includes an active manufacturing facility, a groundwater treatment system (Figure 2-2), and a monitoring well network (Figure 2-3). The Site is currently classified as a Class 4 inactive hazardous waste site.

2.2 Site History and Remediation

The Site, while operating under the Gladding Cordage Company, manufactured braided line and rope using a variety of chemical solvents in the process. In May 1984, NYSDEC determined that Gladding Cordage Company was unlawfully storing and discharging hazardous wastes at the Site. Between 1984 and 1987, Gladding Cordage Company conducted a field investigation and identified that groundwater at the site was contaminated with 1,1,1-TCA; however, the Company did not adequately define the nature and extent of the contamination or agree to implement a State-approved remedial program. The contamination was also detected in the nearby municipal water supply wells. In 1987, Gladding Cordage Company installed a six-inch diameter purge well with an air stripper to treat groundwater extracted from the Site. These actions were taken without NYSDEC approval and were found to be not effective. In April 1987, Gladding Cordage Company filed Chapter 11 petitions in the United States Bankruptcy Court and in July 1987, curtailed operations at the facility (NYSDEC 2013).

Due to the bankruptcy, a responsible party cleanup option became complex. Ownership of the Site following the bankruptcy was also complicated by the contamination issue. While Gladding Cordage Company (previous owner/responsible party) was under Chapter 11 Bankruptcy litigation, Continental Cordage Company (Continental), an affiliate of Gladding Braided Products, was interested in purchasing the property, but did not want to assume the liability for Gladding Cordage Company's environmental practices. The major elements of the purchase agreement included the following (NYSDEC 1987):

- Continental would purchase the property for \$160,000, and approximately \$80,000 would be payable to the State of New York when the title was transferred.
- Continental would apply for a SPDES permit to discharge sanitary waste only from the new disposal system. No process wastewater would be generated.
- Continental would excavate and properly dispose of the existing septic tanks and leach fields (suspected sources of contamination).
- All existing floor drains and discharge piping would be permanently plugged.

Future resale terms included New York State receiving a percentage of all proceeds after Continental receives its original \$160,000 (NYSDEC 1987).

These initial conditions represent the IC/ECs that were initially placed on Site prior to use under the new ownership. Under the State Superfund Standby Program (Work Assignment (WA) No. D002520-20.0), NYSDEC implemented an IRM to remove and dispose of 115 drums of waste.

Since the responsible party was Gladding Cordage Company, rather than Continental/Gladding Braided Products, the remediation needed to be conducted under the New York State Inactive Hazardous Waste Site (Superfund) Program. A RI/FS was conducted between 1988 and 1989. The results indicated that a contaminated groundwater plume extended approximately 2,000 feet down valley from the site and was up to 500 feet wide. Soil contamination was limited to the Site and associated with past disposal practices. There were ingestion risks identified as part of the RI/FS, particularly associated with the groundwater, but installation of a new municipal water supply and the remedial actions (described below) eliminated most risk associated with ingestion (NYSDEC 1993).

The ROD (NYSDEC 1993) was approved shortly after the RI/FS was completed. The remedial actions were guided by the goals of the ROD and are described in Section 3. The remedial action objectives that were identified for the Site according to the ROD (NYSDEC 1993) are:

- Minimize the potential for human exposure to the site-related contaminants
- Minimize the potential for off-site migration of site-related contaminants
- Permanently contain, treat and/or dispose of contaminated media in a manner consistent with State and Federal regulations.

In 2003, Gladding Braided Products was purchased by a new owner. The 2017 Town of Otselic Tax Roll lists Gladding Braided Products, LLC. as the current property owner.

3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The remediation goals in the ROD are as follows:

- Extraction of contaminated groundwater using a groundwater recovery well system with treatment of the contaminated groundwater by an air stripper. The treated water would be discharged to the Otselic River.
 - This method is also in place to aid in controlling the migration of contaminants off-site.
 - The performance of this groundwater treatment system will be evaluated yearly with the goal of removing a significant portion of the contaminant mass.
- Long-term monitoring will be carried out to gauge the effectiveness of the selected alternative and monitor groundwater quality.

The groundwater treatment system for the Site was installed and began operations in the summer of 1995. The system ran until approximately 1997, but was not in continuous operation during this interval due to problems with various aspects of the system. In 1997, the system was shut down completely and remained idle until discussions began in the 2001-2002 timeframe to repair and restart the system (NYSDEC 2001, 2002). The system was repaired and restarted and operated by NYSDEC in 2004 (NYSDEC 2004).

From April 2007 to present, site operations have been performed by Arcadis on behalf of the NYSDEC. The quarterly O&M Reports indicate that the system has operated continuously from April 2007 until present except for minor shutdowns for routine maintenance, power outages, and/or system upgrades.

In December 2012, a soil vapor intrusion (SVI) evaluation was performed at the site, including two off-site buildings. Results of the investigation were presented to NYSDEC and New York State Department of Health (NYSDOH). Based on the results of the investigation, no further action for vapor intrusion was requested by NYSDEC or NYSDOH.

Based on the current Site Management Plan, including inspections and groundwater monitoring, it appears that the Selected Remedies specified in the ROD have been performing as they were intended. In addition, the IC/ECs are functioning properly to mitigate exposure pathways that may have been present. In accordance with the ROD, groundwater is being extracted and treated, with extraction wells controlling the down-gradient migration of contaminants. Since the last PRR in 2014, the system has steadily removed contaminant mass at a rate between six and seven pounds of VOCs per year. Groundwater samples have been collected on a five-quarter basis since 2007. Based on groundwater data (discussed further in Section 5), the concentrations of VOCs have generally decreased across the site.

4 OPERATION AND MAINTENANCE

On August 23, 2007, NYSDEC provided a training session to Arcadis personnel on the operation and maintenance (O&M) of the groundwater treatment plant at the Gladding Cordage Site. Since then, Arcadis has maintained operation of the groundwater treatment plant. This includes the operation, maintenance, and influent/effluent sampling in accordance with the SMP (Site Management Plan) and NYSDEC O&M manual (Operation and Maintenance Manual, Volume I, Gladding Cordage Site, Site 7-09-009, TAMS Consultants, Inc., 1996) (O&M Manual).

O&M inspections were conducted monthly from January 2014 through March 2017and include the following inspections:

- Treatment system operation
- System components and parameters, including recovery well flow and pressure, air stripper pressures and air stripper blower motor operating frequency, General building/Site conditions

The O&M checklists for the 2014 through first quarter 2017 inspections are presented in Appendix A. Photos of each well and site features are presented in Appendix B.

4.1 Treatment System Operations

Treatment system operations were evaluated to verify that the overall system was functioning properly and that alarms that were triggered did not indicate a more significant issue. As an example, a power failure is a common trigger of an alarm that requires a system restart when power returns.

The most recent inspection during 2017 indicated systems were operating as they should and no alarms were noted. Appendix A presents the completed O&M checklists from January 2014 through March 2017. As shown in Appendix A, the only alarms generated from 2014- first quarter 2017 were related to power interruptions. Following indication of the alarm condition, the system was restarted and normal operation resumed.

From 2014 through the first quarter 2017, system downtime was directly related to power outages that caused the system to shut off for varying amounts of time. In 2014, the system ran for approximately 72% of the year. The lower percentage of on-time was related to a defective uninterrupted power supply (UPS) that was replaced following the first quarter 2014 operating period. The faulty UPS caused communications difficulties with the PLC. After the UPS was replaced, the system operated for approximately 80% of the remainder of the year, with system down-time directly related to power outages. In 2015, the system ran approximately 95% of the year, and in 2016, the system ran approximately 88% of the year. So far in 2017, the system has run 99% of the time.

A summary of the flow rates and volumes for the treatment system is presented in Table 4-1. Based on the monthly recovery well data, the average flow rate from RW-1 and RW-2 since 2014 has been approximately 23 gallons per minute (GPM).

4.2 System Component Inspections

As part of the O&M inspections, the various components of the treatment system (recovery wells, air stripper, air stripper blower, and groundwater source heat pump) are individually inspected to assess changes in operation.

Results from the 2014 through first quarter 2017 inspections are presented in Appendix A. As shown in Appendix A, only routine maintenance and repairs were performed on system components. A summary of the maintenance and repairs is provided below:

- During the March 17th, 2014 inspection, Arcadis personnel installed a new motor contactor/starter for the heat pump compressor and heat pump operation was restored.
- On April 23rd, 2014, a new UPS was installed to replace the previous UPS, which contained a faulty battery and caused frequent loss of communications with the PLC.
- During the January 2015 inspection, a defective pressure sensor for the heat pump was replaced and later tested with no faults reported.
- During the March 2015 inspection, the system was shut down to evaluate a noise in the air stripper blower motor. The grease passages in the motor were cleaned and new grease was applied, the system restarted with no issues.
- On September 23rd, 2015, the system was shutdown to clean the air stripper to eliminate low-level
 detections of VOCs in effluent samples from the treatment system. The system was restarted the
 same day.
- All other inspections performed between 2014 and the first quarter 2017 indicated that no major issues were identified with the performance and/or operation of the treatment system.

4.3 General Building/Site Inspection

The Site area, including the state of the facility buildings, is inspected on a monthly basis for general maintenance and up-keep of the grounds around the treatment system.

Results from the 2014 through first quarter 2017 inspections are presented in Appendix A. The Site was observed to be well-kept and the grounds appeared to have been maintained during all inspections.

5 GROUNDWATER MONITORING PROGRAM

Groundwater sampling was conducted to provide information on groundwater quality, monitor potential contaminant migration in the groundwater at the site, and assess hydrogeologic site conditions, including groundwater flow direction. Groundwater monitoring well locations are shown on Figure 2-3. Groundwater sampling is completed on a five-quarter basis. The most recent sampling event was performed on September 30th, 2016. The recovery wells (influent to the treatment plant) and post-treatment effluent are sampled monthly.

5.1 Groundwater Monitoring Well Inspection

The integrity of each well is inspected to evaluate the integrity and suitability for groundwater monitoring and water levels. Each well was identified as being in acceptable condition during the 2014 through first quarter 2017 visits and no repairs were required.

5.2 Water Level Survey

Water levels were measured to the nearest hundredth of a foot during each groundwater monitoring event. Table 5-1 summarizes the groundwater elevations measured during the September 2016 sampling event for the monitoring wells. Table 5-2 summarizes the groundwater elevations measured at the recovery wells during the September 2016 visit. The groundwater elevations were compiled and a potentiometric surface map was created for the shallow (Figure 5-1), intermediate (Figure 5-2), and deep (Figure 5-3) groundwater monitoring intervals.

5.3 Groundwater Sampling

Groundwater samples were collected from 21 groundwater monitoring wells (TW-3S, TW-3I, TW-3D, TW-4I, TW-5S, TW-5I, TW-5D, TW-6S, TW-6I, TW-6D, TW-7S, TW-7I, TW-7D, TW-9I, TW-9D, TW-12I, TW-12D, TW-14S, TW-14I, TW-14D, and TW-15) using passive diffusion bags (PDBs). During the most recent sampling event, PDBs were deployed on September 12, 2016 and samples collected on September 30, 2016.

Groundwater samples were sent to Con-test Analytical Laboratory in East Longmeadow, Massachusetts by chain-of-custody procedures and analyzed for Volatile Organic Compounds (VOCs) by USEPA Method 624.

5.3.1 Groundwater Sampling Results

Groundwater sample results from the 2016 Site visit are summarized in Table 5-3 with available historical analytical results. The following subsections present a summary of the third quarter 2016 analytical results by sample interval.

5.3.1.1 Shallow Groundwater Monitoring Zone

As shown in Table 5-3, VOCs were detected at concentrations greater than the corresponding NYSDEC Class GA Standards in three of the five groundwater samples collected from the shallow groundwater monitoring network. The 1,1,1-TCA results from groundwater samples collected at TW-5S (7.1 μ g/L), TW-

7S (6.6 μ g/L) and TW-14S (50 μ g/L) exceeded the NYSDEC Class GA Standard of 5 μ g/L. VOCs were not detected at concentrations greater than the corresponding NYSDEC Class GA Standards in any other groundwater samples collected from the shallow monitoring zone.

Overall, the shallow concentrations of 1,1,1-TCA have been relatively consistent since the earliest results in 2007. Wells with 1,1,1-TCA concentrations historically greater than the NYSDEC Class GA Standard still show concentrations above the NYSDEC Standard in the most recent sampling event.

5.3.1.2 Intermediate Groundwater Monitoring Zone

Table 5-3 shows that the concentrations of 1,1,1-TCA in groundwater samples collected from intermediate groundwater monitoring wells TW-14I (65 μ g/L), TW-4I (20 μ g/L), and TW-15 (14 μ g/L) were greater than the applicable NYSDEC Class GA Standard of 5 μ g/L. Also, the concentration of benzene from TW-5I (1.2 μ g/L), TW-6I (2.5 μ g/L), and TW-15 (1.3 μ g/L) exceeded the NYSDEC Class GA Standard of 1 μ g/L.

The sample TW-X was collected from monitoring well TW-15 and submitted as a field duplicate in the 2016 sampling event. As shown in Table 5-3, the concentrations of 1,1,1-TCA are the same in the TW-15 (14 μ g/L) sample as the duplicate (14 μ g/L).

No other VOCs were detected in groundwater samples from intermediate monitoring wells at concentrations greater than the applicable NYSDEC Class GA Standards

Monitoring well results with 1,1,1-TCA concentrations greater than 50 µg/L in 2007 have shown a decline since 2009. This may indicate that control over the source contamination at the facility and that the treatment system is resulting in decreasing concentrations for 1,1,1-TCA in the intermediate zone near the TW-15, TW-5I, and TW-14I locations. Though there may be occasional increases in VOC detections in samples collected from these wells, the overall general trend for concentrations of 1,1,1-TCA is decreasing compared to past results. These intermediate wells are located near RW-2, indicating that this well is proving effective at controlling contaminant distribution in areas adjacent to the well.

5.3.1.3 Deep Groundwater Monitoring Zone

As shown in Table 5-3, the concentration of 1,1,1-TCA exceeded the corresponding NYSDEC Class GA Standard of 5 μ g/L in the groundwater samples collected from deep monitoring well TW-14D (6.5 μ g/L). However, the result of the September 2016 sampling event (6.5 μ g/L) is the lowest detection in TW-14D since June 2009 and second lowest detection overall.

No other VOCs were detected in groundwater samples collected from the deep monitoring wells at concentrations greater than the applicable NYSDEC Class GA Standards

The deep monitoring zone has had fluctuating concentrations since 2007, typically less than 50 μ g/L, except for the October 2013 sample from TW-14D (56 μ g/L).

5.3.1.4 Recovery Wells and Effluent

Tables 5-4 and 5-5 present the 2016 VOC results for RW-1 and RW-2, respectively. The most commonly detected VOC was 1,1,1-TCA. In 2016, the average concentrations of 1,1,1-TCA were 36 μ g/L and 31 μ g/L for RW-1 and RW-2, respectively.

Table 5-6 presents the effluent 2016 VOC results. All VOC constituents, including 1,1,1-TCA did not exceed the NYSDEC Class GA Standards for these samples.

6 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Based on inspections completed in 2014 through first quarter 2017, the groundwater recovery wells and treatment system are performing as designed. Groundwater monitoring wells are in acceptable condition and allow for the sampling and characterization of groundwater quality.

Treatment system analytical results from 2016 indicate that the recovery wells are extracting groundwater with a concentration of 1,1,1-TCA of approximately 34 μ g/L (on average). The treatment system consistently discharges effluent that is either non-detect for VOCs or at concentrations less than the applicable NYSDEC Standards. The monitoring well results indicate that the 1,1,1-TCA concentrations are at concentrations consistent with past results, with some areas showing indications of decreasing concentrations.

6.2 Recommendations

No changes to the monitoring plan are recommended at this time. ICs/ECs are effective in preventing human contact with residual contamination. No changes to the PRR submittal frequency are recommended.

A Site Management Plan (SMP) is in development to document the required inspections and requirements for this Site to provide to current and future owners of the property.

7 SUMMARY AND CERTIFICATION

O&M activities were conducted monthly from 2014 through March 2017, with groundwater monitoring samples collected during the May 8, 2015 and September 30, 2016 site visits. The treatment system is functioning as designed and the overall facility condition, along with the state of monitoring and recovery wells, is acceptable. Contaminant concentrations fluctuate, but in general are either consistent with past results or have decreased slightly over time.

Based on the remediation objectives specified in the ROD, the treatment system is performing as intended and minimizing the potential for off-site migration of, and exposure to, contaminated groundwater.

The completed NYSDEC IC/EC certification is provided as Appendix C.

8 REFERENCES

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TABLES

TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-04-009A

| Date | System | System | Well O | n-time | Flow | Rates | Totalizer | Totalizer | Recovery We | II Total Flows | Total System | Quarterly |
|----------------|-----------|----------------------|--------------|--------------|-------|-------|------------|------------|-------------|----------------|--------------|-----------|
| | Operation | On-time | RW-1 | RW-2 | RW-1 | RW-2 | RW-1 | RW-2 | RW-1 | RW-2 | Flow | Totals |
| | (days) | (% of possible days) | (% possible) | (% possible) | (gpm) | (gpm) | (gallons) | (gallons) | (gallons) | (gallons) | (gallons) | (gallons) |
| January-14 | 12 | 39% | 100% | 100% | 22.2 | 22.9 | 18,507,983 | 16,012,662 | 375,802 | 387,909 | 763,711 | |
| February-14 | 14 | 50% | 100% | 100% | 21.8 | 22.7 | 18,881,664 | 16,397,973 | 373,681 | 385,311 | 758,992 | 2,680,630 |
| March-14 | 17 | 55% | 100% | 100% | 22.2 | 23.2 | 19,447,410 | 16,990,154 | 565,746 | 592,181 | 1,157,927 | |
| April-14 | 15 | 50% | 100% | 100% | 21.7 | 23.2 | 19,914,906 | 17,482,200 | 467,496 | 492,046 | 959,542 | |
| May-14 | 31 | 99% | 100% | 100% | 21.8 | 22.5 | 20,883,319 | 18,490,607 | 968,413 | 1,008,407 | 1,976,820 | 4,810,632 |
| June-14 | 29 | 97% | 100% | 100% | 21.4 | 21.6 | 21,800,646 | 19,447,550 | 917,327 | 956,943 | 1,874,270 | |
| July-14 | 24 | 77% | 100% | 100% | 22.5 | 22.6 | 22,568,327 | 20,221,473 | 767,681 | 773,923 | 1,541,604 | |
| August-14 | 17 | 55% | 100% | 100% | 22.2 | 22.5 | 23,152,553 | 20,797,422 | 584,226 | 575,949 | 1,160,175 | 4,053,935 |
| September-14 | 21 | 70% | 100% | 100% | 22.5 | 22.8 | 23,822,623 | 21,479,508 | 670,070 | 682,086 | 1,352,156 | |
| October-14 | 31 | 100% | 100% | 100% | 22.4 | 23.0 | 24,817,777 | 22,505,592 | 995,154 | 1,026,084 | 2,021,238 | |
| November-14 | 27 | 90% | 100% | 100% | 21.9 | 22.6 | 25,671,847 | 23,393,737 | 854,070 | 888,145 | 1,742,215 | 5,312,917 |
| December-14 | 24 | 77% | 100% | 100% | 24.4 | 22.9 | 26,465,671 | 24,149,377 | 793,824 | 755,640 | 1,549,464 | |
| January-15 | 30 | 97% | 100% | 100% | 23.8 | 22.3 | 27,482,764 | 25,089,994 | 1,017,093 | 940,617 | 1,957,710 | |
| February-15 | 27 | 96% | 100% | 100% | 21.3 | 24.1 | 28,457,483 | 25,964,709 | 974,719 | 874,715 | 1,849,434 | 5,839,875 |
| March-15 | 31 | 100% | 100% | 100% | 21.7 | 23.9 | 29,512,439 | 26,942,484 | 1,054,956 | 977,775 | 2,032,731 | |
| April-15 | 30 | 100% | 100% | 100% | 23.9 | 21.6 | 30,572,172 | 27,868,651 | 1,059,733 | 926,167 | 1,985,900 | |
| May-15 | 26 | 84% | 100% | 100% | 23.6 | 21.1 | 31,474,040 | 28,682,253 | 901,868 | 813,602 | 1,715,470 | 5,125,831 |
| June-15 | 20 | 67% | 100% | 100% | 25.3 | 21.8 | 32,221,714 | 29,359,040 | 747,674 | 676,787 | 1,424,461 | |
| July-15 | 31 | 100% | 100% | 100% | 25.3 | 22.3 | 33,390,538 | 30,373,435 | 1,168,824 | 1,014,395 | 2,183,219 | |
| August-15 | 31 | 100% | 100% | 100% | 24.8 | 22.0 | 34,478,269 | 31,320,491 | 1,087,731 | 947,056 | 2,034,787 | 6,202,519 |
| September-15 | 30 | 100% | 100% | 100% | 25.0 | 21.5 | 35,532,694 | 32,250,579 | 1,054,425 | 930,088 | 1,984,513 | |
| October-15 | 31 | 100% | 100% | 100% | 21.5 | 21.1 | 36,367,830 | 33,094,600 | 835,136 | 844,021 | 1,679,157 | |
| November-15 | 30 | 100% | 100% | 100% | 21.6 | 22.0 | 37,244,398 | 33,967,175 | 876,568 | 872,575 | 1,749,143 | 5,374,028 |
| December-15 | 31 | 100% | 100% | 100% | 21.9 | 22.0 | 38,220,025 | 34,937,276 | 975,627 | 970,101 | 1,945,728 | |
| Total Flow 201 | 4 | | | | | | | | 0 222 400 | 9 524 624 | 16 050 111 | |

 Total Flow 2014
 8,333,490
 8,524,624
 16,858,114

 Total Flow 2015
 11,754,354
 10,787,899
 22,542,253

Notes:

gpm - Gallons per minute

TABLE 4-1
TREATMENT SYSTEM STATUS AND FLOW SUMMARY
GLADDING CORDAGE SITE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE NO. 7-04-009A

| Date | System | System | Well O | n-time | Flow | Rates | Totalizer | Totalizer | Recovery We | II Total Flows | Total System | Quarterly |
|--------------|-----------|----------------------|--------------|--------------|-------|-------|------------|------------|-------------|----------------|--------------|-----------|
| | Operation | On-time | RW-1 | RW-2 | RW-1 | RW-2 | RW-1 | RW-2 | RW-1 | RW-2 | Flow | Totals |
| | (days) | (% of possible days) | (% possible) | (% possible) | (gpm) | (gpm) | (gallons) | (gallons) | (gallons) | (gallons) | (gallons) | (gallons) |
| January-16 | 29 | 94% | 100% | 100% | 20.7 | 22.1 | 39,095,592 | 35,850,122 | 875,567 | 912,846 | 1,788,413 | |
| February-16 | 29 | 100% | 100% | 100% | 21.9 | 22.2 | 39,988,542 | 36,759,764 | 892,950 | 909,642 | 1,802,592 | 5,501,623 |
| March-16 | 31 | 100% | 100% | 100% | 20.6 | 21.4 | 40,931,049 | 37,727,875 | 942,507 | 968,111 | 1,910,618 | |
| April-16 | 29 | 97% | 100% | 100% | 21.1 | 21.2 | 41,816,850 | 38,633,091 | 885,801 | 905,216 | 1,791,017 | |
| May-16 | 29 | 94% | 100% | 100% | 21.9 | 21.1 | 42,727,616 | 39,534,066 | 910,766 | 900,975 | 1,811,741 | 5,088,795 |
| June-16 | 23 | 77% | 100% | 100% | 24.9 | 21.6 | 43,515,441 | 40,232,278 | 787,825 | 698,212 | 1,486,037 | |
| July-16 | 26 | 84% | 100% | 100% | 25.1 | 22.6 | 44,489,448 | 41,120,013 | 974,007 | 887,735 | 1,861,742 | |
| August-16 | 25 | 81% | 100% | 100% | 25.8 | 23.2 | 45,398,795 | 41,958,714 | 909,347 | 838,701 | 1,748,048 | 5,592,798 |
| September-16 | 28 | 93% | 100% | 100% | 25.6 | 23.7 | 46,429,587 | 42,910,930 | 1,030,792 | 952,216 | 1,983,008 | |
| October-16 | 28 | 90% | 100% | 100% | 25.2 | 23.8 | 47,490,153 | 43,894,225 | 1,060,566 | 983,295 | 2,043,861 | |
| November-16 | 19 | 63% | 100% | 100% | 25.8 | 23.6 | 48,297,839 | 44,642,649 | 807,686 | 748,424 | 1,556,110 | 5,348,351 |
| December-16 | 26 | 84% | 100% | 100% | 25.7 | 24.0 | 49,198,978 | 45,489,890 | 901,139 | 847,241 | 1,748,380 | |
| January-17 | 31 | 100% | 100% | 100% | 25.7 | 23.7 | 50,412,604 | 46,629,621 | 1,213,626 | 1,139,731 | 2,353,357 | |
| February-17 | 28 | 100% | 100% | 100% | 25.5 | 23.6 | 51,438,294 | 47,591,095 | 1,025,690 | 961,474 | 1,987,164 | 6,229,301 |
| March-17 | 30 | 97% | 100% | 100% | 25.4 | 23.7 | 52,415,109 | 48,503,060 | 976,815 | 911,965 | 1,888,780 | |

Total Flow 2016 10,978,953 10,552,614 21,531,567
Total Flow 2017 3,216,131 3,013,170 6,229,301

Notes:

gpm - Gallons per minute

Table 5-1
GROUNDWATER MONITORING WELL WATER LEVEL DATA
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE No. 7-09-009

| Well ID | Monitored | Measuring Point | 10/1 | 5/2013 | 4/21 | /2015 | 9/12 | 2/2016 |
|---------|--------------|------------------------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|
| | Interval | Elevation ⁽¹⁾ (feet) | DTW (feet) | Elevation (feet amsl) | DTW (feet) | Elevation (feet amsl) | DTW (feet) | Elevation (feet amsl) |
| TW-1 | Shallow | 1212.71 ⁽⁴⁾ | 7.29 | 1205.42 | 5.47 | 1207.24 | 7.84 | 1204.87 |
| TW-2S | Shallow | 1212.57 ⁽⁴⁾ | 8.22 | 1204.35 | 6.31 | 1206.26 | 8.70 | 1203.87 |
| TW-2I | Intermediate | 1212.16 ⁽⁴⁾ | 7.84 | 1204.32 | 6.03 | 1206.13 | 8.41 | 1203.75 |
| TW-2D | Deep | 1212.26 ⁽⁴⁾ | 7.93 | 1204.33 | 6.08 | 1206.18 | 8.52 | 1203.74 |
| TW-3S | Shallow | 1213.60 | 9.40 | 1204.2 | 7.83 | 1205.77 | 10.11 | 1203.49 |
| TW-3I | Intermediate | 1213.19 | 8.75 | 1204.44 | 8.59 | 1204.60 | 9.40 | 1203.79 |
| TW-3D | Deep | 1213.47 | 9.05 | 1204.42 | 7.33 | 1206.14 | 9.67 | 1203.80 |
| TW-4I | Intermediate | 1209.96 ⁽²⁾ | 5.65 | 1204.31 | 5.01 | 1204.95 | 7.29 | 1202.67 |
| TW-5S | Shallow | 1211.78 | 7.60 | 1204.18 | 6.04 | 1205.74 | 8.37 | 1203.41 |
| TW-5I | Intermediate | 1211.89 | 8.90 | 1202.99 | 6.36 | 1205.53 | 8.78 | 1203.11 |
| TW-5D | Deep | 1212.55 | 8.75 | 1203.8 | 7.26 | 1205.29 | 9.65 | 1202.90 |
| TW-6S | Shallow | 1210.08 ⁽⁵⁾ | 6.02 | 1204.06 | 4.55 | 1205.53 | 7.13 | 1202.95 |
| TW-6I | Intermediate | 1210.61 ⁽⁵⁾ | 6.94 | 1203.67 | 5.40 | 1205.21 | 7.80 | 1202.81 |
| TW-6D | Deep | 1210.36 ⁽⁵⁾ | 6.70 | 1203.66 | 5.13 | 1205.23 | 7.50 | 1202.86 |
| TW-7S | Shallow | 1213.48 | 8.70 | 1204.78 | 6.88 | 1206.60 | 9.35 | 1204.13 |
| TW-7I | Intermediate | 1213.60 | 9.02 | 1204.58 | 7.30 | 1206.30 | 9.80 | 1203.80 |
| TW-7D | Deep | 1213.25 | 8.85 | 1204.4 | 7.09 | 1206.16 | 9.50 | 1203.75 |
| TW-9I | Intermediate | 1213.75 ⁽⁴⁾ | 9.54 | 1204.21 | 7.97 | 1205.78 | 10.45 | 1203.30 |
| TW-9D | Deep | 1213.84 ⁽⁴⁾ | 9.93 | 1203.91 | 8.30 | 1205.54 | 10.79 | 1203.05 |
| TW-10D | Deep | 1209.58 ⁽⁵⁾ | 6.21 | 1203.37 | 4.70 | 1204.88 | 6.89 | 1202.69 |
| TW-12I | Intermediate | - | 7.10 | - | 6.09 | - | 7.66 | - |
| TW-12D | Deep | - | 7.13 | - | 6.03 | - | 7.68 | - |
| TW-14S | Shallow | 1210.05 ⁽²⁾ | 6.04 | 1204.01 | 4.58 | 1205.47 | 6.88 | 1203.17 |
| TW-14I | Intermediate | 1210.17 ⁽²⁾ | 6.25 | 1203.92 | 5.08 | 1205.09 | 7.36 | 1202.81 |
| TW-14D | Deep | 1209.98 ⁽²⁾ | 6.26 | 1203.72 | 4.70 | 1205.28 | 7.13 | 1202.85 |
| TW-15 | Intermediate | 1212.94 ⁽²⁾ | 9.11 | 1203.83 | 4.52 | 1208.42 | 9.86 | 1203.08 |

- 1 Measuring point elevations from: Operation and
- 2 Based on December 2007 survey referenced from TW-5D.
- 3 Elevation calculated from water level pressure transducer reading.
- 4 Based on June 2009 survey referenced from TW-3S, 5D, and 6D.
- 5 Based on September 2010 survey referenced from TW-4I.

Table 5-2
RECOVERY WELL WATER LEVEL DATA
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC SITE No. 7-09-009

| Recovery | Top of Casing | Transducer | Transducer | 10/29 | /2013 | 4/21/ | 2015 | 9/12/2016 | | |
|----------|---------------|--------------|------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|--|
| Well ID | Elevation | Cable Length | Elevation | Pumping Level | Elevation | Pumping Level | Elevation | Pumping Level | Elevation | |
| | (ft amsl) | (ft) | (ft amsl) | (ft above transducer) | (ft amsl) | (ft above transducer) | (ft amsl) | (ft above transducer) | (ft amsl) | |
| RW-1 | 1209.30 | 40 | 1169.30 | 33.04 | 1202.34 | 35.49 | 1204.79 | 31.37 | 1200.67 | |
| RW-2 | 1212.20 | 65 | 1147.20 | 54.94 | 1202.14 | 57.46 | 1204.66 | 55.36 | 1202.56 | |

Top of casing elevation from: Operation and Maintenance Manual, Volume I, Gladding Cordage Site, TAMS Consulting, Inc., 1996.

ft amsl - feet above mean sea level

Pumping level from instrument control panel reading

TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-1 | TW-2S | TW-2I | TW-2D | TW-3S | TW-3S | TW-3S | TW-3S | TW-3S | TW-3S | TW-3S | TW-3S | TW-3S | TW-3I | TW-3I |
|------------------------|----------|-----------|-----------|-----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|
| Sampling Date | Class GA | 6/25/2009 | 6/25/2009 | 6/25/2009 | 6/25/2009 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.4 U | 0.4 U | 1.4 | 0.4 U | 0.32 U | 3.4 | 0.4 U | 6.2 | 4 | 2 | 2.9 | 2 | 2.1 | 9.1 | 6.7 |
| 1,1-Dichloroethane | * | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 1 U |
| 1,1-Dichloroethene | 5 | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 1 U |
| 2-Butanone | 50 | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 1.4 J | | | 20 U | 1.1 U | 5 U |
| Acetone | 50 | 10 | 11 | 9.5 | 19 | 2.3 U | 5 U | 13 | 14 | 64 | 12 | | | 50 U | 2.3 U | 5 U |
| Benzene | 1 | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.39 U | 1 U | 0.32 U | 1.1 | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U | 1 U |
| Carbon Tetrachloride | 5 | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U |
| Chloroethane | 5 | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U |
| Chloroform | 7 | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U |
| Chloromethane | | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.41 J | 2 U | 2 U | 2 U | 0.34 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U |
| Tetrachloroethene | 5 | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U |
| Toluene | 5 | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 0.10 J | 1 U | 0.36 U | 1 U |
| Trichloroethene | 5 | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.
* - NYSDEC Principal Organic Contaminant Standard
of 5 ug/l applies to this compound.
U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-3I | TW-3I | TW-3I | TW-3I | TW-3I | TW-3I | TW-3I | TW-3D | TW-3D | TW-3D | TW-3D | TW-3D | TW-3D | TW-3D | TW-3D |
|------------------------|----------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|
| Sampling Date | Class GA | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.4 U | 1 U | 1 U | 5 | 6.1 | 3.6 | 4.7 | 0.32 U | 1.3 | 1.4 | 1 U | 1 U | 1.2 | 2 U | 0.96 J |
| 1,1-Dichloroethane | * | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| 1,1-Dichloroethene | 5 | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| 2-Butanone | 50 | 1.3 U | 5 U | 5 U | 2.6 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.7 J | | |
| Acetone | 50 | 16 | 13 | 6 | 14 | | | 50 U | 2.3 U | 5 U | 11 | 13 | 9.5 | 17 | | |
| Benzene | 1 | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 0.76 J | 1.9 | 0.67 J | 1 U | 1.9 |
| Carbon Tetrachloride | 5 | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Chloroethane | 5 | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Chloroform | 7 | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Chloromethane | | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | |
| Tetrachloroethene | 5 | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Toluene | 5 | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 0.11 J |
| Trichloroethene | 5 | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.

* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-3D | TW-4I | TW-4I | TW-4I | TW-4I | TW-4I | TW-4I | TW-4I | TW-4I | TW-4I | TW-5S | TW-5S | TW-5S | TW-5S | TW-5S |
|------------------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|
| Sampling Date | Class GA | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | 6.6 | 1.1 | 0.4 U | 23 | 33 | 28 | 23 | 20 | 20 | 0.32 U | 11 | 13 | 7.4 | 7.9 |
| 1,1-Dichloroethane | * | 1 U | 0.38 U | 3.8 | 3.8 | 2.5 | 5.3 | 4.4 | 4.4 | 4.1 | 4.6 | 0.38 U | 1 U | 0.48 J | 1 U | 1 U |
| 1,1-Dichloroethene | 5 | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1.6 | 0.5 U | 2 U | 0.3 J | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U |
| 2-Butanone | 50 | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.2 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U |
| Acetone | 50 | 50 U | 2.3 U | 5 U | 16 | 18 | 20 | 15 | | | 50 U | 2.3 U | 5 U | 9.2 | 18 | 5 U |
| Benzene | 1 | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 0.15 J | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U |
| Carbon Tetrachloride | 5 | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U |
| Chloroethane | 5 | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 2.5 | 2.8 | 2.3 | 1.7 J | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U |
| Chloroform | 7 | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U |
| Chloromethane | | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U |
| Tetrachloroethene | 5 | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U |
| Toluene | 5 | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 0.11 J | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U |
| Trichloroethene | 5 | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.
* - NYSDEC Principal Organic Contaminant Standard
of 5 ug/l applies to this compound.
U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-5S | TW-5S | TW-5S | TW-5S | TW-5I | TW-5I | TW-5I | TW-5I | TW-5I | TW-5I | TW-5I | TW-5I | TW-5I | TW-5D | TW-5D |
|------------------------|----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|
| Sampling Date | Class GA | 7/24/2012 | 10/29/2013 | 5/8/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 11 | 7.9 | 2 J | 7.1 | 4.8 J | 8.8 | 90 | 8.6 | 5.5 | 4.3 | 4.1 | 9.6 | 3.2 | 41 | 28 |
| 1,1-Dichloroethane | * | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 1 | 3.5 | 2.3 | 1.7 | 0.5 U | 2 U | 0.47 J | 1 U | 0.38 U | 1 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 0.22 J | 1 U | 0.42 U | 1 U |
| 2-Butanone | 50 | 2.7 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.3 J | | | 20 U | 1.1 U | 5 U |
| Acetone | 50 | 14 | | | 50 U | 2.3 U | 5 U | 13 | 15 | 18 | 14 | | | 50 U | 2.3 U | 5 U |
| Benzene | 1 | 0.5 U | 1 U | 1 U | 1 U | 6.2 | 3.5 | 0.32 U | 32 | 1 U | 4.8 | 1.9 | 4.7 | 1.2 | 0.39 U | 1 U |
| Carbon Tetrachloride | 5 | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U |
| Chloroethane | 5 | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U |
| Chloroform | 7 | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U |
| Chloromethane | | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.43 J | 2 U | 2 U | 2 U | 0.34 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U |
| Tetrachloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U |
| Toluene | 5 | 0.5 U | 1 U | 0.16 J | 1 U | 0.36 U | 1 U | 0.37 U | 0.63 J | 1 U | 0.44 J | 1 U | 0.17 J | 1 U | 0.36 U | 1 U |
| Trichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.

* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-5D | TW-5D | TW-5D | TW-5D | TW-5D | TW-5D | TW-5D | TW-6S | TW-6S | TW-6S | TW-6S | TW-6S | TW-6S | TW-6S | TW-6S |
|------------------------|----------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|
| Sampling Date | Class GA | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 32 | 28 | 25 | 28 | 39 | 18 | 3.2 | 0.32 U | 0.53 J | 0.4 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| 1,1-Dichloroethane | * | 0.36 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| 1,1-Dichloroethene | 5 | 0.47 U | 1 U | 1.3 | 0.5 U | 2 l | J 0.29 J | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| 2-Butanone | 50 | 1.3 U | 5 U | 5 U | 2.1 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.3 J | | |
| Acetone | 50 | 20 | 17 | 41 | 14 | | | 50 U | 2.3 U | 5 U | 11 | 15 | 17 | 12 | | |
| Benzene | 1 | 0.32 U | 1 U | 1 U | 0.5 U | 1 l | J 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U |
| Carbon Tetrachloride | 5 | 0.62 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Chloroethane | 5 | 0.66 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Chloroform | 7 | 0.34 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 2 U | 0.33 U | 1.6 | 1 | 1.1 | 1.2 | 4.7 | 8.6 | 1.4 J |
| Chloromethane | | 0.54 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | |
| Tetrachloroethene | 5 | 0.27 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |
| Toluene | 5 | 0.37 U | 1 U | 1 U | 0.5 U | 1 l | J 0.12 J | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U |
| Trichloroethene | 5 | 0.28 U | 1 U | 1 U | 0.5 U | 2 l | J 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.

* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-6S | TW-6I | TW-6I | TW-6I | TW-6I | TW-6I | TW-6I | TW-6I | TW-6I | TW-6I | TW-6D | TW-6D | TW-6D | TW-6D | TW-6D |
|------------------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|
| Sampling Date | Class GA | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | 0.32 U | 1.3 | 0.4 U | 1 U | 1 U | 3.2 | 2.2 | 2.4 | 1 U | 0.32 U | 1 U | 0.4 U | 1 U | 1 U |
| 1,1-Dichloroethane | * | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U |
| 1,1-Dichloroethene | 5 | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U |
| 2-Butanone | 50 | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.1 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U |
| Acetone | 50 | 50 U | 2.3 U | 4.4 J | 11 | 18 | 14 | 16 | | | 50 U | 2.3 U | 5 U | 21 | 9.5 | 16 |
| Benzene | 1 | 1 U | 0.39 U | 1 U | 0.32 U | 0.99 J | 1.1 | 0.5 U | 1 U | 1.5 | 2.5 | 0.39 U | 1 U | 1 | 1 U | 1 U |
| Carbon Tetrachloride | 5 | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U |
| Chloroethane | 5 | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U |
| Chloroform | 7 | 3.0 | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U |
| Chloromethane | | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 0.29 U | 4.1 | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U |
| Tetrachloroethene | 5 | 1 U | 0.48 U | 2.4 | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U |
| Toluene | 5 | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 0.15 J | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U |
| Trichloroethene | 5 | 1 U | 0.46 U | 1.2 | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.

* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

U - The compound was not detected at the indicated

concentration.

J - Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3 SUMMARY OF GROUNDWATER DETECTIONS (VOCS) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-6D | TW-6D | TW-6D | TW-6D |
|------------------------|----------|-----------|------------|----------|-----------|
| Sampling Date | Class GA | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 |
| Matrix | Standard | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 2 U | 2 U | 1 U |
| 1,1-Dichloroethane | * | 0.5 U | 2 U | 2 U | 1 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U |
| 2-Butanone | 50 | 1.9 J | | | 20 U |
| Acetone | 50 | 13 | | | 50 U |
| Benzene | 1 | 0.5 U | 1 U | 1 U | 1 U |
| Carbon Tetrachloride | 5 | 0.5 U | 2 U | 2 U | 5 U |
| Chloroethane | 5 | 0.5 U | 2 U | 2 U | 2 U |
| Chloroform | 7 | 0.5 U | 2 U | 2 U | 2 U |
| Chloromethane | | 0.5 U | 2 U | 2 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | | | 1 U |
| Tetrachloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U |
| Toluene | 5 | 0.5 U | 1 U | 0.11 J | 1 U |
| Trichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U |

- Concentration exceeds corresponding
 NYSDEC Class GA Standard.
 * NYSDEC Principal Organic Contaminant Standard
 of 5 ug/l applies to this compound.
 U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.

D - Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

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TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-7S | TW-7S | TW-7S | TW-7S | TW-7S | TW-7S | TW-7S | TW-7S | TW-7S | TW-7I | TW-7I | TW-7I | TW-7I | TW-7I | TW-7I |
|------------------------|----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|
| Sampling Date | Class GA | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | • | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 8.2 | 18 | 7.8 | 6.8 | 5 | 11 | 12 | 5.1 | 6.6 | 0.32 U | 1.5 | 0.4 U | 2.2 | 0.69 J | 1.6 |
| 1,1-Dichloroethane | * | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U |
| 1,1-Dichloroethene | 5 | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U |
| 2-Butanone | 50 | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.9 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 1.8 J |
| Acetone | 50 | 2.3 U | 3.3 J | 22 | 12 | 19 | 15 | | | 50 U | 2.3 U | 5 U | 15 | 17 | 21 | 11 |
| Benzene | 1 | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U |
| Carbon Tetrachloride | 5 | 1.1 U | 2.6 | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U |
| Chloroethane | 5 | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U |
| Chloroform | 7 | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U |
| Chloromethane | | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U |
| Tetrachloroethene | 5 | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U |
| Toluene | 5 | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U |
| Trichloroethene | 5 | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-7I | TW-7I | TW-7I | TW-7D | TW-7D | TW-7D | TW-7D | TW-7D | TW-7D | TW-7D | TW-7D | TW-7D | TW-9I | TW-9I | TW-9I |
|------------------------|----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|-----------|-----------|
| Sampling Date | Class GA | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 6/25/2009 | 3/23/2010 | 6/21/2011 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 2 U | 1.1 J | 1.1 | 21 | 3.8 | 9.1 | 5.2 | 4.5 | 4.4 | 5.9 | 10 | 1.1 | 5.5 | 4.3 | 4.2 |
| 1,1-Dichloroethane | * | 2 U | 2 U | 1 U | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.36 U | 1 U | 1 U |
| 1,1-Dichloroethene | 5 | 2 U | 2 U | 1 U | 4.8 J | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.47 U | 1 U | 1 U |
| 2-Butanone | 50 | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.4 J | | | 20 U | 1.3 U | 5 U | 5 U |
| Acetone | 50 | | | 50 U | 2.3 U | 5 U | 17 | 18 | 14 | 13 | | | 50 U | 17 | 14 | 19 |
| Benzene | 1 | 1 U | 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.32 U | 1 U | 1 U |
| Carbon Tetrachloride | 5 | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 0.62 U | 1 U | 1 U |
| Chloroethane | 5 | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.66 U | 1 U | 1 U |
| Chloroform | 7 | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 1 U |
| Chloromethane | | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.54 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.35 U | 1 U | 1 U |
| Tetrachloroethene | 5 | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.27 U | 1 U | 1 U |
| Toluene | 5 | 1 U | 0.11 J | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.37 U | 1 U | 1 U |
| Trichloroethene | 5 | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.28 U | 1 U | 1 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-9I | TW-9I | TW-9I | TW-9I | TW-9D | TW-9D | TW-9D | TW-9D | TW-9D | TW-9D | TW-9D | TW-10D | TW-12I | TW-12I | TW-12I |
|------------------------|----------|-----------|------------|----------|-----------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|----------|------------|-----------|
| Sampling Date | Class GA | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 6/25/2009 | 9/6/2007 | 10/17/2008 | 6/25/2009 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 4.2 | 4 | 3 | 1 U | 0.4 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 3.3 | 0.53 J | 0.32 U | 1 U | 0.4 U |
| 1,1-Dichloroethane | * | 0.5 U | 2 U | 2 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.36 U | 0.38 U | 1 U | 0.36 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.47 U | 0.42 U | 1 U | 0.47 U |
| 2-Butanone | 50 | 2.6 J | | | 20 U | 1.3 U | 5 U | 5 U | 1.9 J | | | 20 U | 1.3 U | 1.1 U | 5 U | 1.3 U |
| Acetone | 50 | 16 | | | 50 U | 9.1 | 13 | 3.6 J | 14 | | | 50 U | 19 | 2.3 U | 5 U | 10 |
| Benzene | 1 | 0.5 U | 1 U | 1 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.32 U | 0.39 U | 1 U | 0.32 U |
| Carbon Tetrachloride | 5 | 0.5 U | 2 U | 2 U | 5 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 0.62 U | 1.1 U | 1 U | 0.62 U |
| Chloroethane | 5 | 0.5 U | 2 U | 2 U | 2 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.66 U | 0.83 U | 1 U | 0.66 U |
| Chloroform | 7 | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 0.33 U | 1 U | 0.34 U |
| Chloromethane | | 0.41 J | 2 U | 2 U | 2 U | 0.54 U | 1 U | 1 U | 0.4 J | 2 U | 2 U | 2 U | 0.54 U | 0.34 U | 1 U | 0.54 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | | | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.35 U | 0.29 U | 1 U | 0.35 U |
| Tetrachloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.27 U | 0.48 U | 1 U | 0.27 U |
| Toluene | 5 | 0.5 U | 1 U | 1 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.37 U | 0.36 U | 1 U | 0.37 U |
| Trichloroethene | 5 | 0.5 U | 2 U | 2 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.28 U | 0.46 U | 1 U | 0.28 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-12I | TW-12I | TW-12I | TW-12I | TW-12I | TW-12I | TW-12D | TW-12D | TW-12D | TW-12D | TW-12D | TW-12D | TW-12D | TW-12D | TW-14S |
|------------------------|----------|-----------|-----------|-----------|------------|----------|-----------|----------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|
| Sampling Date | Class GA | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | • | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.32 U | 0.4 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.32 U |
| 1,1-Dichloroethane | * | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U |
| 1,1-Dichloroethene | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U | 0.47 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.42 U |
| 2-Butanone | 50 | 5 U | 5 U | 1.8 J | | | 20 U | 1.1 U | 1.3 U | 5 U | 5 U | 2.8 J | | | 20 U | 1.1 U |
| Acetone | 50 | 21 | 13 | 12 | | | 50 U | 2.3 U | 14 | 13 | 11 | 18 | | | 50 U | 2.3 U |
| Benzene | 1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U |
| Carbon Tetrachloride | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U |
| Chloroethane | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U |
| Chloroform | 7 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U |
| Chloromethane | | 1 U | 1 U | 0.43 J | 2 U | 2 U | 2 U | 0.34 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U |
| Toluene | 5 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 U |
| Trichloroethene | 5 | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-14S | TW-14S | TW-14S | TW-14S | TW-14S | TW-14S | TW-14S | TW-14S | TW-14I | TW-14I | TW-14I | TW-14I | TW-14I | TW-14I | TW-14I |
|------------------------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|
| Sampling Date | Class GA | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 68 | 0.4 U | 16 | 12 | 21 | 10 | 4.5 | 50 | 39 | 95 | 83 | 82 | 87 | 76 | 59 |
| 1,1-Dichloroethane | * | 5.8 | 1.2 | 0.64 J | 0.55 J | 0.95 J | 2 U | 2 U | 5.3 | 0.38 U | 2.8 | 3.2 | 3.2 | 3.5 | 2.6 | 2.1 |
| 1,1-Dichloroethene | 5 | 1 U | 0.47 U | 1 U | 0.67 J | 0.5 U | 2 U | 2 U | 1 U | 3.7 J | 1.5 | 0.47 U | 2.1 | 4.4 | 1.4 | 2 U |
| 2-Butanone | 50 | 5 U | 1.3 U | 5 U | 5 U | 2 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.2 J | |
| Acetone | 50 | 5 U | 14 | 16 | 18 | 14 | | | 50 U | 2.3 U | 5 U | 13 | 17 | 20 | 16 | |
| Benzene | 1 | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U |
| Carbon Tetrachloride | 5 | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U |
| Chloroethane | 5 | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U |
| Chloroform | 7 | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U |
| Chloromethane | | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | |
| Tetrachloroethene | 5 | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U |
| Toluene | 5 | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 0.15 J | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U |
| Trichloroethene | 5 | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.

* - NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.

- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-14I | TW-14I | TW-14D | TW-14D | TW-14D | TW-14D | TW-14D | TW-14D | TW-14D | TW-14D | TW-14D | TW-15 | TW-15 | TW-15 | TW-15 |
|------------------------|----------|----------|-----------|----------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|------------|-----------|-----------|
| Sampling Date | Class GA | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/6/2007 | 10/17/2008 | 6/25/2009 | 3/23/2010 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 57 | 65 | 42 | 18 | 0.4 U | 9.1 | 12 | 11 | 56 | 10 | 6.5 | 17 | 84 D | 95 | 97 |
| 1,1-Dichloroethane | * | 2 J | 2.4 | 0.38 U | 1 U | 0.36 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.38 U | 3.3 | 3.4 | 4.1 |
| 1,1-Dichloroethene | 5 | 1.1 J | 1.3 | 7.2 | 1 U | 0.47 U | 1 U | 0.67 J | 0.5 U | 2 U | 2 U | 1 U | 4.6 J | 2 | 1.8 | 2.7 |
| 2-Butanone | 50 | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U | 5 U | 2.2 J | | | 20 U | 1.1 U | 5 U | 1.3 U | 5 U |
| Acetone | 50 | | 50 U | 2.3 U | 5 U | 15 | 18 | 25 | 17 | | | 50 U | 2.3 U | 5 U | 9.7 | 15 |
| Benzene | 1 | 1 U | 1 U | 0.39 U | 1 U | 0.32 U | 1 U | 1 U | 0.5 U | 1 U | 5.7 | 1 U | 0.39 U | 1 U | 0.32 U | 1 U |
| Carbon Tetrachloride | 5 | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 5 U | 1.1 U | 1 U | 0.62 U | 1 U |
| Chloroethane | 5 | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.83 U | 1 U | 0.66 U | 1 U |
| Chloroform | 7 | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.33 U | 1 U | 0.34 U | 1 U |
| Chloromethane | | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 2 U | 0.34 U | 1 U | 0.54 U | 1 U |
| cis-1,2-Dichloroethene | 5 | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U | 1 U | 0.5 U | | | 1 U | 0.29 U | 1 U | 0.35 U | 1 U |
| Tetrachloroethene | 5 | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.48 U | 1 U | 0.27 U | 1 U |
| Toluene | 5 | 1 U | 1 U | 0.36 U | 1 U | 0.37 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 U | 1 U | 0.37 U | 1 U |
| Trichloroethene | 5 | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U | 1 U | 0.5 U | 2 U | 2 U | 1 U | 0.46 U | 1 U | 0.28 U | 1 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound

TABLE 5-3
SUMMARY OF GROUNDWATER DETECTIONS (VOCS)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | TW-15 | TW-15 | TW-15 | TW-15 | TW-15 | DUP-X |
|------------------------|----------|-----------|-----------|------------|----------|-----------|-----------|
| Sampling Date | Class GA | 6/21/2011 | 7/24/2012 | 10/29/2013 | 5/6/2015 | 9/30/2016 | 9/30/2016 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 89 | 85 | 9.4 | 32 | 14 | 14 |
| 1,1-Dichloroethane | * | 3.8 | 3.4 | 2 U | 1.6 | 1 U | 1 U |
| 1,1-Dichloroethene | 5 | 5.9 | 2 | 2 U | 0.93 | 1 U | 1 U |
| 2-Butanone | 50 | 5 U | 2.9 J | | | 20 U | 20 U |
| Acetone | 50 | 35 | 17 | | | 50 U | 50 U |
| Benzene | 1 | 1 U | 0.5 U | 1 U | 13 | 1.3 | 1.3 |
| Carbon Tetrachloride | 5 | 1 U | 0.5 U | 2 U | 2 U | 5 U | 5 U |
| Chloroethane | 5 | 1 U | 0.5 U | 2 U | 2 U | 2 U | 2 U |
| Chloroform | 7 | 1 U | 0.5 U | 2 U | 2 U | 2 U | 2 U |
| Chloromethane | | 1 U | 0.48 J | 2 U | 2 U | 2 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 0.5 U | | | 1 U | 1 U |
| Tetrachloroethene | 5 | 1 U | 0.5 U | 2 U | 2 U | 1 U | 1 U |
| Toluene | 5 | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U |
| Trichloroethene | 5 | 1 U | 0.5 U | 2 U | 2 U | 1 U | 1 U |

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- * NYSDEC Principal Organic Contaminant Standard of 5 ug/l applies to this compound.
- U The compound was not detected at the indicated concentration.
- J Compound detected below the reporting limit or Concentration is estimated for TICS.
- D Sample dilluted

TW-X is a duplicate sample collected at TW-15

Blank space indicates sample not analyzed for that compound



TABLE 5-4
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-1 | RW-1 | RW-1 |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Sampling Date | Class GA | 1/30/2014 | 2/21/2014 | 3/17/2014 | 4/10/2014 | 5/22/2014 | 6/25/2014 | 7/30/2014 | 8/21/2014 | 9/30/2014 | 10/21/2014 | 11/19/2014 | 12/18/2014 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | 1 1 | Ŭ | - J | · · | J | Ū | | Ŭ | J | | | | J |
| 1,1,1-Trichloroethane | 5 | 47 | 45 | 50 | 42 | 31 | 43 | 42 | 42 | 36 | 43 | 51 | 44 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 0.16 | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 | 1.4 | 2.0 | 1.9 | 1.2 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.8 | 1.5 |
| 1,1-Dichloroethene | 5 | 1.2 | 1.1 | 0.92 | 1.0 | 0.71 | 0.63 | 0.85 | 0.83 | 0.87 | 1.2 | 2.4 | 2.0 U |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10.0 U | 10.0 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 5.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 50.2 | 47.5 | 52.9 | 44.9 | 32.9 | 45.2 | 44.5 | 44.4 | 38.4 | 45.8 | 55.4 | 45.5 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-4
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 | RW-1 |
|---------------------------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Sampling Date | Class GA | 1/20/2015 | 2/25/2015 | 3/19/2015 | 5/6/2015 | 6/22/2015 | 7/31/2015 | 8/28/2015 | 9/23/2015 | 10/26/2015 | 11/20/2015 | 12/21/2015 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | Ŭ | | J | J | | |
| 1,1,1-Trichloroethane | 5 | 43 | 40 | 36 | 38 | 41 | 40 | 42 | 32 | 38 | 41 | 32 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 1.8 J | 1.6 J | 1.5 J | 2.0 U | 1.8 J | 1.6 J | 1.8 J | 1.5 J | 1.8 J | 2.1 | 1.5 J |
| 1,1-Dichloroethene | 5 | 1.3 J | 0.93 J | 0.89 J | 0.92 J | 0.99 J | 0.96 J | 0.97 J | 0.8 J | 0.85 J | 1.0 J | 0.8 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10.0 U | 10.0 U | 10 U | 10 U | 10.0 U | 10 U | 10 U | 10.0 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | _ | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.19 J | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U | 0.13 J | 2.0 U | 1.0 U | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 2.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 46.1 | 44.5 | 38.4 | 39.1 | 43.8 | 42.6 | 45.0 | 34.3 | 40.7 | 44.1 | 34.3 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-4
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-1 | RW-1 | RW-1 |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|
| Sampling Date | Class GA | 1/25/2016 | 2/26/2016 | 3/18/2016 | 4/22/2016 | 5/23/2016 | 6/24/2016 | 7/25/2016 | 8/18/2016 | 9/16/2016 | 10/31/2016 | 11/28/2016 | 12/4/2016 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | - |
| 1,1,1-Trichloroethane | 5 | 38 | 36 | 36 | 31 | 34 | 32 | 35 | 34 | 36 | 39 | 42 | 41 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 0.25 J |
| 1,1-Dichloroethane | 5 | 1.8 J | 1.5 J | 1.4 J | 1.2 J | 1.3 J | 1.1 J | 1.5 J | 1.6 J | 1.6 J | 1.7 J | 2.1 | 2 J |
| 1,1-Dichloroethene | 5 | 0.84 J | 0.79 J | 0.86 J | 0.84 J | 0.77 J | 0.69 J | 0.68 J | 0.89 J | 0.75 J | 0.91 J | 1.0 J | 1.2 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10 U | 10 U | 10.0 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10.0 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | 5 | 2.0 U | 0.77 J | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 1.0 U | 1.0 U | 2.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 40.6 | 38.3 | 38.3 | 33.0 | 36.1 | 33.8 | 38.0 | 36.5 | 38.4 | 41.6 | 45.1 | 44.5 |

3 of 4 3 of 4

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-4
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-1)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-1 | RW-1 | RW-1 |
|---------------------------|----------|-----------|-----------|-----------|
| Sampling Date | Class GA | 1/30/2017 | 2/27/2017 | 3/23/2017 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | |
| 1,1,1-Trichloroethane | 5 | 35 | 34 | 40 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 1.5 J | 1.5 J | 1.7 J |
| 1,1-Dichloroethene | 5 | 0.86 J | 1.7 J | 0.99 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10 U | 10 U | 10.0 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 37.36 | 37.2 | 42.69 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-5 SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-2) **GLADDING CORDAGE** SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-2 | RW-2 | RW-2 |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Sampling Date | Class GA | 1/30/2014 | 2/21/2014 | 3/17/2014 | 4/10/2014 | 5/22/2014 | 6/25/2014 | 7/30/2014 | 8/21/2014 | 9/29/2014 | 10/21/2014 | 11/19/2014 | 12/18/2014 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 46 | 51 | 57 | 44 | 27 | 38 | 37 | 37 | 32 | 37 | 45 | 37 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 1.0 | 0.89 | 1.3 | 1.2 | 0.57 | 0.81 | 0.73 | 0.80 | 0.66 J | 0.82 J | 0.99 J | 0.72 J |
| 1,1-Dichloroethene | 5 | 0.97 | 0.83 | 1.0 | 0.88 | 0.63 | 0.62 | 0.63 | 0.62 | 0.76 J | 1.3 J | 1.4 J | 0.93 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10.0 U | 10.0 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 5.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 48.0 | 52.7 | 59.3 | 46.1 | 28.2 | 39.4 | 38.4 | 38.4 | 33.4 | 39.1 | 47.4 | 38.7 |

⁻ Concentration exceeds corresponding NYSDEC Class GA Standard.

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-5 SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-2) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 | RW-2 |
|---------------------------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Sampling Date | Class GA | 1/20/2015 | 2/25/2015 | 3/19/2015 | 5/6/2015 | 6/23/2015 | 7/31/2015 | 8/28/2015 | 9/23/2015 | 10/26/2015 | 11/20/2015 | 12/21/2015 |
| Matrix | Standard | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 15 | 34 | 31 | 33 | 48 | 34 | 36 | 26 | 32 | 34 | 26 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 U | 0.76 J | 0.69 J | 2.0 U | 1.1 J | 0.74 J | 0.77 J | 0.61 J | 0.75 J | 0.85 J | 0.61 J |
| 1,1-Dichloroethene | 5 | 0.38 J | 0.7 J | 0.68 J | 0.72 J | 1 J | 0.72 J | 0.62 J | 0.58 J | 0.63 J | 0.92 J | 0.58 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10.0 U | 10.0 U | 10 U | 10 U | 10.0 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.15 J | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U | 0.13 J | 2.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 15.4 | 35.4 | 32.4 | 33.9 | 50.1 | 35.5 | 37.5 | 27.2 | 33.4 | 35.8 | 27.2 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-5
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-2)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | RW-2 | RW-2 | RW-2 |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|
| Sampling Date | Class GA | 1/25/2016 | 2/26/2016 | 3/18/2016 | 4/22/2016 | 5/23/2016 | 6/24/2016 | 7/25/2016 | 8/18/2016 | 9/16/2016 | 10/31/2016 | 11/28/2016 | 12/4/2016 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 32 | 29 | 29 | 25 | 28 | 33 | 28 | 29 | 35 | 33 | 35 | 32 |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 0.86 J | 0.62 J | 0.62 J | 0.53 J | 0.56 J | 0.58 J | 0.66 J | 0.70 J | 0.77 J | 0.78 J | 0.89 J | 0.82 J |
| 1,1-Dichloroethene | 5 | 0.64 J | 0.56 J | 0.66 J | 0.60 J | 0.62 J | 0.58 J | 0.48 J | 0.72 J | 0.82 J | 0.78 J | 0.87 J | 0.86 J |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 0.59 J | 2.0 U | 2.0 U | 2.0 U | 2.4 | 0.57 J |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 33.5 | 30.2 | 30.3 | 26.1 | 29.2 | 34.2 | 29.7 | 30.4 | 36.6 | 34.6 | 39.2 | 34.3 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-5 SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (INFLUENT - RW-2) GLADDING CORDAGE SOUTH OTSELIC, NEW YORK NYSDEC Site No. 7-09-009

| 1,1,2-Trichloroethane 1 2.0 U 2.0 | 9 33 0 U 2.0 U 0 U 2.0 U |
|--|--|
| Units ug/L ug/L ug/L VOCs 1,1,1-Trichloroethane 5 30 2 1,1,2,2-Tetrachloroethane 5 2.0 U 2.0 1,1,2-Trichloroethane 1 2.0 U 2.0 | 9 33 0 U 2.0 U 0 U 2.0 U 6 J 0.76 J |
| VOCs 5 30 2 1,1,1-Trichloroethane 5 2.0 U 2.1 1,1,2-Tetrachloroethane 1 2.0 U 2.1 1,1,2-Trichloroethane 1 2.0 U 2.1 | 9 33 0 U 2.0 U 0 U 2.0 U 6 J 0.76 J |
| 1,1,1-Trichloroethane 5 30 2 1,1,2,2-Tetrachloroethane 5 2.0 U 2. 1,1,2-Trichloroethane 1 2.0 U 2. | 0 U 2.0 U 0 U 2.0 U 6 J 0.76 J |
| 1,1,2,2-Tetrachloroethane 5 2.0 U 2.1 1,1,2-Trichloroethane 1 2.0 U 2.0 U | 0 U 2.0 U 0 U 2.0 U 6 J 0.76 J |
| 1,1,2-Trichloroethane 1 2.0 U 2.0 | 0 U 2.0 U 6 J 0.76 J |
| ··· | 6 J 0.76 J |
| | |
| 1,1-Dichloroethane 5 0.63 J 0.6 | 1 J 0.71 J |
| 1,1-Dichloroethene 5 0.65 J 1. | |
| 1,2-Dichlorobenzene 3 2.0 U 2. | 0 U 2.0 U |
| 1,2-Dichloroethane 0.6 2.0 U 2. | 0 U 2.0 U |
| 1,2-Dichloropropane 1 2.0 U 2. | 0 U 2.0 U |
| 1,3-Dichlorobenzene 3 2.0 U 2. | 0 U 2.0 U |
| 1,4-Dichlorobenzene 3 2.0 U 2. | 0 U 2.0 U |
| 2-Chloroethyl Vinyl Ether 10 U 1 | 0 U 10.0 U |
| Benzene 1 1.0 U 1. | 0 U 1.0 U |
| Bromodichloromethane 50 2.0 U 2. | 0 U 2.0 U |
| Bromoform 50 2.0 U 2. | 0 U 2.0 U |
| Bromomethane 5 2.0 U 2. | 0 U 2.0 U |
| Carbon Tetrachloride 5 2.0 U 2. | 0 U 2.0 U |
| Chlorobenzene 5 2.0 U 2. | 0 U 2.0 U |
| Chloroethane 5 2.0 U 2. | 0 U 2.0 U |
| Chloroform 7 2.0 U 2. | 0 U 2.0 U |
| Chloromethane 2.0 U 2. | 0 U 2.0 U |
| cis-1,3-Dichloropropene 0.4 2.0 U 2. | 0 U 2.0 U |
| Dibromochloromethane 50 2.0 U 2. | 0 U 2.0 U |
| Ethyl Benzene 5 2.0 U 2. | 0 U 2.0 U |
| m/p-Xylenes 5 2.0 U 2. | 0 U 2.0 U |
| Methyl tert-butyl Ether 2.0 U 2. | 0 U 2.0 U |
| Methylene Chloride 5 5.0 U 5. | 0 U 5.0 U |
| o-Xylene 2.0 U 2. | 0 U 2.0 U |
| Tetrachloroethene 5 2.0 U 2. | 0 U 2.0 U |
| Toluene 5 1.0 U 1. | 0 U 1.0 U |
| trans-1,2-Dichloroethene 5 2.0 U 2. | 0 U 2.0 U |
| trans-1,3-Dichloropropene 0.4 2.0 U 2. | 0 U 2.0 U |
| Trichloroethene 5 2.0 U 2. | 0 U 2.0 U |
| Trichlorofluoromethane 5 2.0 U 2. | 0 U 2.0 U |
| Vinyl Chloride 2 2.0 U 2. | 0 U 2.0 U |
| Total VOCs 31.28 30.7 | 6 34.47 |

U - Not detected at the indicated concentration

J - Estimated concentration.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | EFF(46HZ) | EFF(44HZ) | EFF(46HZ) | EFF(46HZ) |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----------|
| Sampling Date | GA | 1/30/2014 | 2/21/2014 | 3/17/2014 | 4/10/2014 | 5/22/2014 | 6/25/2014 | 7/30/2014 | 8/21/2014 | 9/30/2014 | 10/21/2014 | 11/19/2014 | 12/18/2014 | 1/20/2015 |
| Matrix | Standard | WATER | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | _ | _ | _ | | | | | |
| 1,1,1-Trichloroethane | 5 | 2.0 U | 0.16 J | 2.0 U | 2.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10.0 U | 10.0 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 0.19 J | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 2.0 U | 5.0 U | 5.0 U | 2.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

U - Not detected at the indicated concentration.

J - Estimated concentration.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | EFF(46HZ) | EFF(46HZ) | EFF(46HZ) |
|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Sampling Date | GA | 2/25/2015 | 3/19/2015 | 5/6/2015 | 6/23/2015 | 7/31/2015 | 8/28/2015 | 9/23/2015 | 10/26/2015 | 11/20/2015 | 12/21/2015 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 2.0 U | 2.0 U | 1.0 U | 0.22 J | 0.22 J | 0.17 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 2.0 U | 2.0 U |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 0.2 J | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 0.12 J | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |

U - Not detected at the indicated concentration.

J - Estimated concentration.

TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | EFF(46HZ) |
|-------------------------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Sampling Date | GA | 1/25/2016 | 2/26/2016 | 3/18/2016 | 4/22/2016 | 5/23/2016 | 6/24/2016 | 7/25/2016 | 8/18/2016 | 9/16/2016 | 10/31/2016 | 11/28/2016 | 12/4/2016 |
| Matrix | Standard | WATER |
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | | _ | _ | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 0.15 J |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 U |
| 1,1-Dichloroethene | 5 | 2.0 U |
| 1,2-Dichlorobenzene | 3 | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10 U |
| Benzene | 1 | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U |
| Bromoform | 50 | 2.0 U |
| Bromomethane | 5 | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U |
| Chlorobenzene | 5 | 2.0 U |
| Chloroethane | 5 | 2.0 U |
| Chloroform | 7 | 2.0 U |
| Chloromethane | | 2.0 U | 1.0 J | 2.0 U | 2.0 U | 2.0 U | 2.3 | 0.73 J |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U |
| Ethyl Benzene | 5 5 | 2.0 U | 2.0 U 2.0 U | 2.0 U 2.0 U | 2.0 U | 2.0 U 2.0 U | 2.0 U | 2.0 U | 2.0 U 2.0 U | 2.0 U 2.0 U | 2.0 U | 2.0 U 2.0 U | 2.0 U 2.0 U |
| m/p-Xylenes | 5 | 2.0 U 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U 2.0 U | 2.0 U 2.0 U | 2.0 U | | 2.0 U 2.0 U | 2.0 U | 2.0 U |
| Methylene Chleride | - | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U | 2.0 U 5.0 U | 5.0 U | | 2.0 U |
| Methylene Chloride | 5 | 5.0 U 2.0 U | 2.0 U | 5.0 U | 5.0 U 2.0 U | 5.0 U 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 5.0 U 2.0 U | 2.0 U |
| o-Xylene Tetrachloroethene | 5 | 2.0 U |
| Toluene | 5 | 1.0 U | 2.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 2.0 U | 2.0 U | 5.0 U | 2.0 U | 5.0 U | 2.0 U | 2.0 U |
| Trichloroethene | 5 | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U |
| vinyi Chioride | | 2.U U | 2.U U | 2.0 U | 2.U U | 2.0 U | 2.U U | 2.U U | 2.U U | 2.0 U | 2.0 0 | 2.0 0 | 2.0 0 |

U - Not detected at the indicated concentration.

J - Estimated concentration.

3 of 4 3 of 4 5-5, 5-6Table 5-6

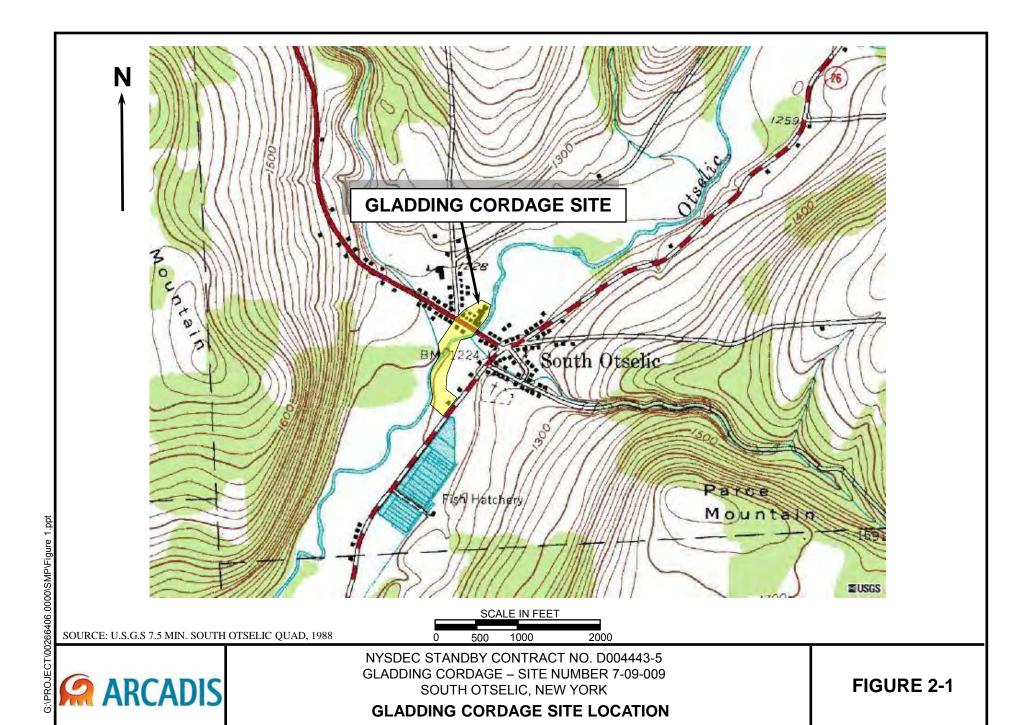
TABLE 5-6
SUMMARY OF GROUNDWATER TREATMENT SYSTEM VOCS (EFFLUENT)
GLADDING CORDAGE
SOUTH OTSELIC, NEW YORK
NYSDEC Site No. 7-09-009

| Sample ID | NYSDEC | EFF(46HZ) | EFF(46HZ) | EFF(46HZ) |
|---------------------------|----------|-----------|-----------|-----------|
| Sampling Date | GA | 1/30/2017 | 2/27/2017 | 3/23/2017 |
| Matrix | Standard | WATER | WATER | WATER |
| Units | ug/L | ug/L | ug/L | ug/L |
| VOCs | | | | |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1,2-Trichloroethane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,1-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloroethane | 0.6 | 2.0 U | 2.0 U | 2.0 U |
| 1,2-Dichloropropane | 1 | 2.0 U | 2.0 U | 2.0 U |
| 1,3-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 1,4-Dichlorobenzene | 3 | 2.0 U | 2.0 U | 2.0 U |
| 2-Chloroethyl Vinyl Ether | | 10 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromoform | 50 | 2.0 U | 2.0 U | 2.0 U |
| Bromomethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Carbon Tetrachloride | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chlorobenzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Chloroform | 7 | 2.0 U | 2.0 U | 2.0 U |
| Chloromethane | | 2.0 U | 2.0 U | 0.66 J |
| cis-1,3-Dichloropropene | 0.4 | 2.0 U | 2.0 U | 2.0 U |
| Dibromochloromethane | 50 | 2.0 U | 2.0 U | 2.0 U |
| Ethyl Benzene | 5 | 2.0 U | 2.0 U | 2.0 U |
| m/p-Xylenes | 5 | 2.0 U | 2.0 U | 2.0 U |
| Methyl tert-butyl Ether | | 2.0 U | 2.0 U | 2.0 U |
| Methylene Chloride | 5 | 5.0 U | 5.0 U | 5.0 U |
| o-Xylene | | 2.0 U | 2.0 U | 2.0 U |
| Tetrachloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| trans-1,3-Dichloropropene | 0.4 | 5.0 U | 5.0 U | 5.0 U |
| Trichloroethene | 5 | 2.0 U | 2.0 U | 2.0 U |
| Trichlorofluoromethane | 5 | 2.0 U | 2.0 U | 2.0 U |
| Vinyl Chloride | 2 | 2.0 U | 2.0 U | 2.0 U |

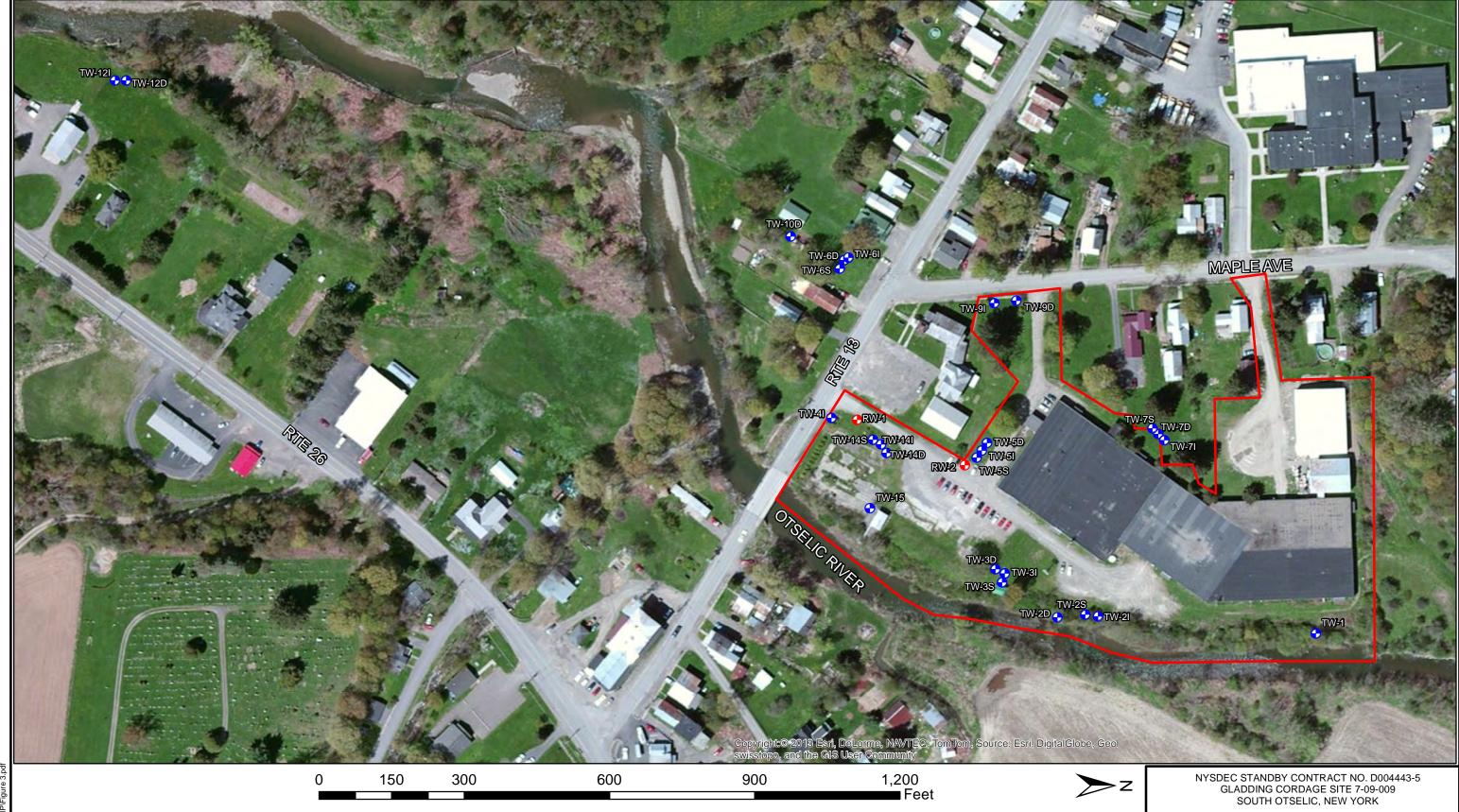
U - Not detected at the indicated concentration.

J - Estimated concentration.

FIGURES



G:\PROJECT\00266406.0000\SMP\Figure 2.ppt



Legend

Monitoring Well

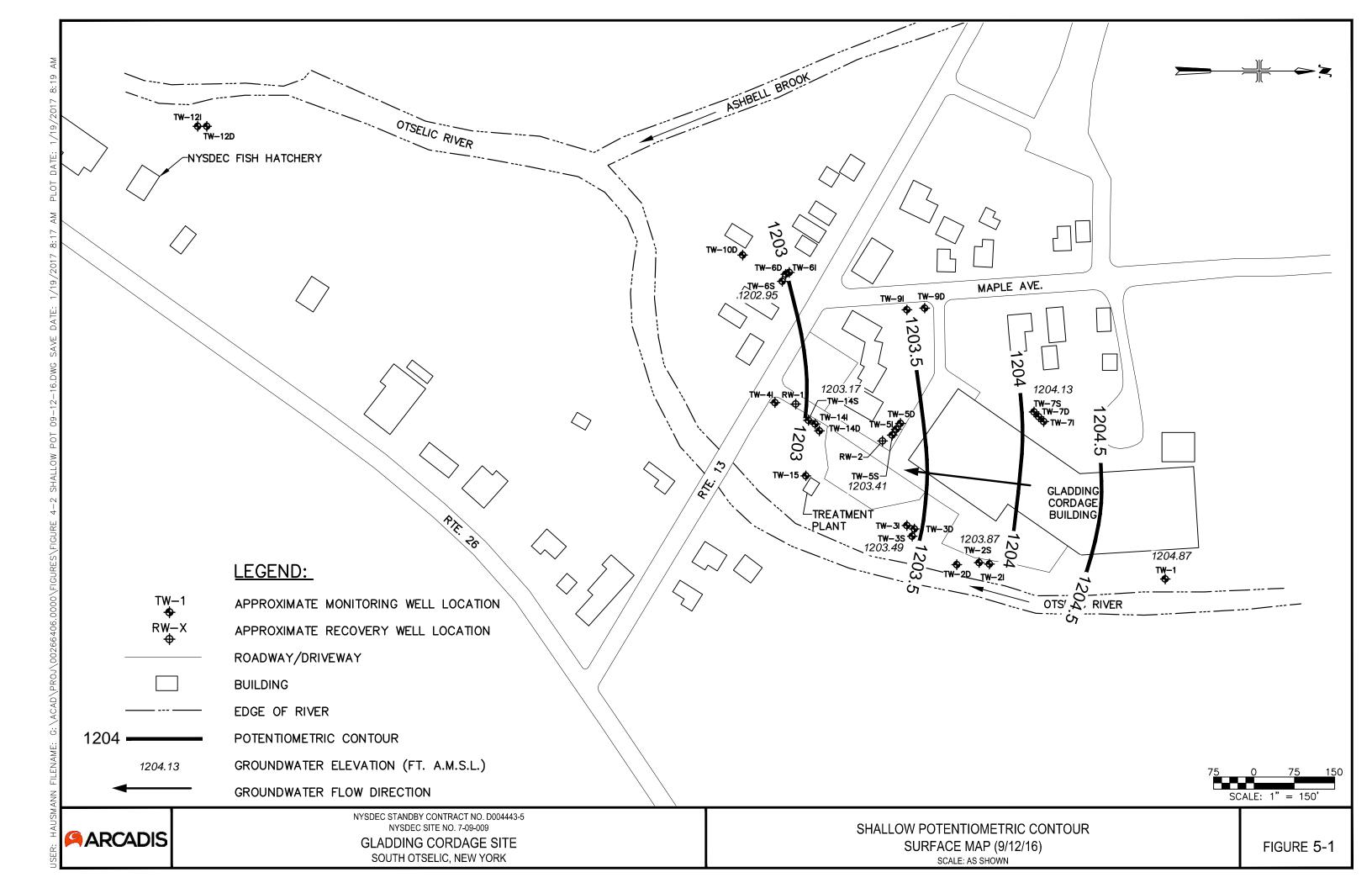
Recovery Well

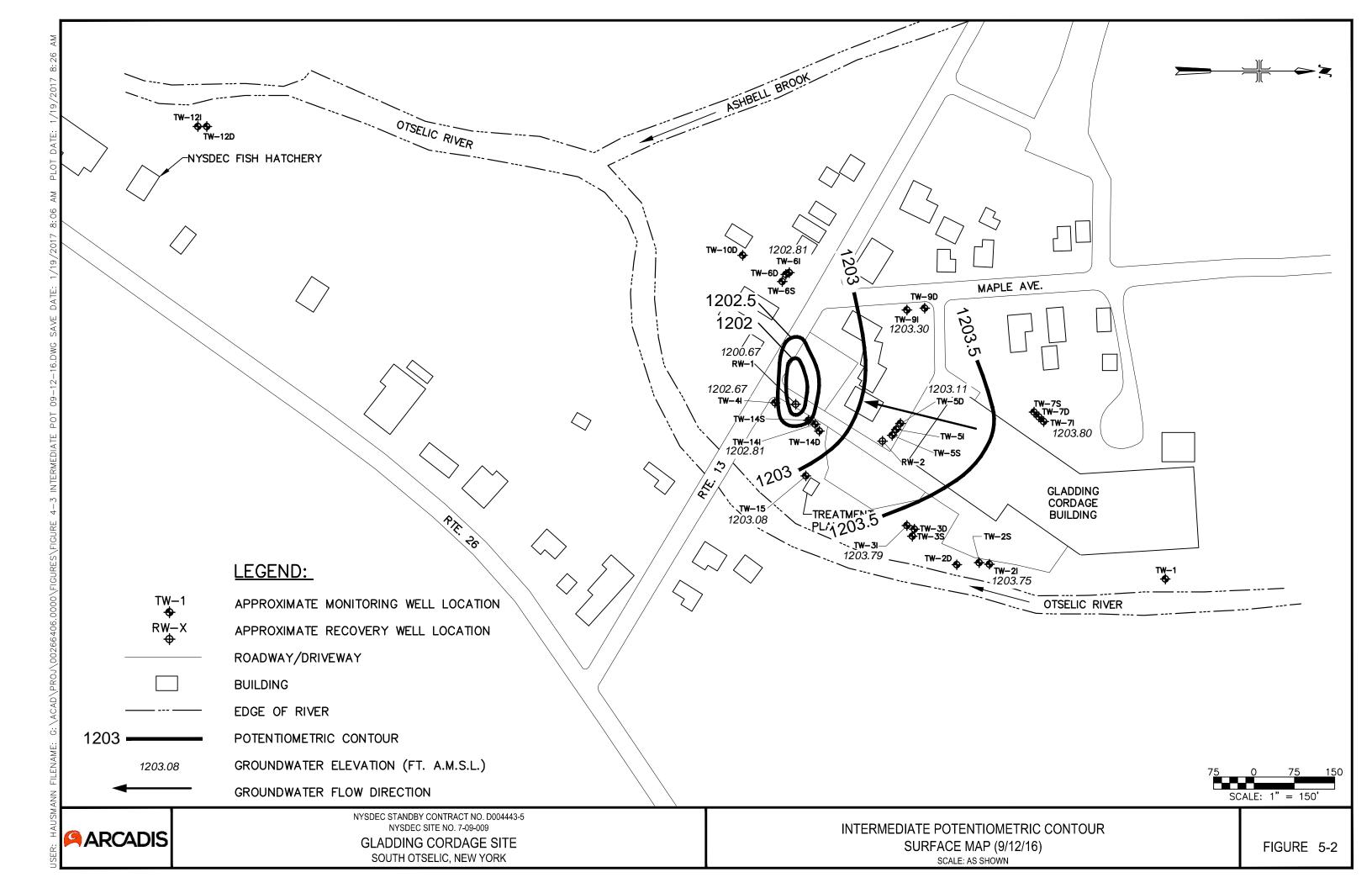
Approximate Site Boundary

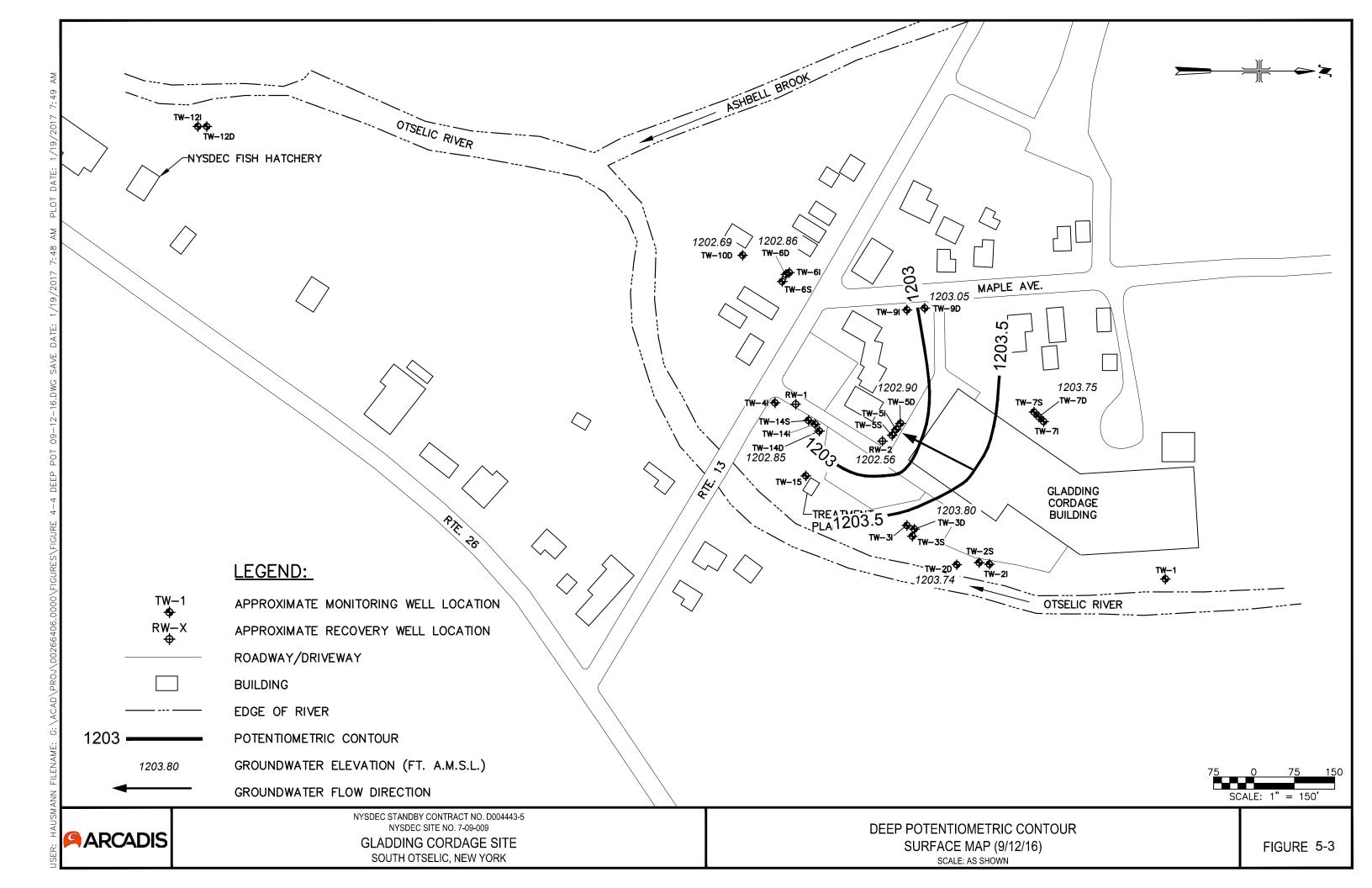
SITE MANAGEMENT PLAN

MONITORING WELL LOCATIONS









APPENDIX A

O&M Checklists

| Date | 1/30/2014 | | |
|-----------|-----------|--|--|
| Inspector | J.Wyckoff | | |
| Time | 12:00 | | |

| Treatment System Overetion | | Alarma | |
|--|---------------|--------------------------|----------------|
| Treatment System Operation | | Alarms | NI NI |
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | | RW-1 (Y/N) | N |
| RW-2 On (Y/N) | | RW-2 (Y/N) | <u>N</u> |
| Blower On (Y/N) Y | | Blower Pressure (Y/N) | <u>N</u> |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) | N |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.2 | 22.9 | |
| Total Flow (Gallons) | | | _ |
| Water Level (Feet Above Probe) | 34.51 | 55.51 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ |
| | | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | ` ' |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Υ | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | off | Building Temperature (°F | |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressur | e (PSI) 1.6 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checker | ` ' |
| Grass Mowed (Y/N) | NA | Outfall Condition OK? (Y | |
| Monitoring Wells OK? (Y/N) | NA | Samples Collected (Y/N) | Υ |
| Natao | | | |
| Notes: | | | |
| System was off - no power from UPS. Re | estart syste | m at 12:00. No alarms we | ere sent. |
| | | | |
| Electric heat was on. | | | |
| | | | |
| Aprox 6" snow cover. | | | |
| | | | |
| Heat pump not working. No groundwater | | | |
| Contacted AZTECH and spoke with Geof | | | |
| and to run in cooling mode to force heat t | | | |
| exchanger thawed. Placed back in heat i | | | |
| exchanger. Could not reach AZTECH - w | vill continue | diagnostics with AZTECH | at later date. |
| | | | |
| | | | |
| - | | | |
| | | | |

| Date | 2/21/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 17:30 | |

| Treatment System Operation | | Alarms | |
|--|---------------|------------------------------|-----------------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | - | RW-1 (Y/N) | N |
| RW-2 On (Y/N) Y | _ | RW-2 (Y/N) | N |
| Blower On (Y/N) | = | ` ' | <u>N</u> |
| | = | Blower Pressure (Y/N) | |
| Sump Pump On (Y/N) N | - | Sump Level (Y/N) | <u>N</u> |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.8 | 22.7 | _ |
| Total Flow (Gallons) | | | |
| Water Level (Feet Above Probe) | 34.41 | 55.24 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ |
| | | | |
| Air Stripper | 40 | Intelse/Eubarrat Dialia - Ol | ZO (V/NI) V |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Oh | · · · |
| System Pressure (inches water) | 10.6 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | off | Building Temperature (°F | 5) 64 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | |
| Treat Exchanger Flow (GFM) | 0.0 | rieat Exchanger Fressun | e (FSI) |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Y | Circuit Breakers Checked | d (Y/N) Y |
| Grass Mowed (Y/N) | NA | Outfall Condition OK? (Y/ | ` ' |
| Monitoring Wells OK? (Y/N) | NA | Samples Collected (Y/N) | , <u>Y</u> |
| , , | | , , | |
| Notes: | | | |
| | | | |
| System was off - no power from UPS. R | Restart syste | em at 15:30. | |
| El di la | | | |
| Electric heat was on. | | | |
| Aprov 1 F fact apow cover | | | |
| Aprox 1.5 feet snow cover. | | | |
| Continue heat pump diagnostics: | | | |
| Found refridgerant compressor does not | t shut off. C | auses heat exchanger to fr | eeze when cicrculator |
| pump stops pumping water. When circu | | | |
| can flow through heat exchanger. Found | | | |
| Discussed findings with AZTECH and co | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Date | 3/17/2014 | | |
|-----------|-----------|--|--|
| Inspector | J.Wyckoff | | |
| Time | 11:00 | | |

| Treatment System Operation | | Alarma | | |
|---|---------------|----------------------------|---------------|-----|
| Treatment System Operation | | Alarms | N. | |
| System On (Y/N) Y | | A/C Fail (Y/N) | <u>N</u> | |
| RW-1 On (Y/N) Y | | RW-1 (Y/N) | N | |
| RW-2 On (Y/N) | | RW-2 (Y/N) | N | |
| Blower On (Y/N) | | Blower Pressure (Y/N) | N | |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) | N | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 22.2 | 23.2 | | |
| Total Flow (Gallons) | | · | _ | |
| Water Level (Feet Above Probe) | 34.7 | 55.53 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | - | |
| | | | | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | K? (Y/N) | Υ |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | | N |
| Influent/Effluent Piping OK? (Y/N) | Υ | Water Temperature (°F) | | 50 |
| | | | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | off | Building Temperature (°F | | 59 |
| Heat Exchanger Flow (GPM) | 2.8 | Heat Exchanger Pressur | e (PSI) | 8.8 |
| | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checke | ` ' | Υ |
| Grass Mowed (Y/N) | NA | Outfall Condition OK? (Y | , | Υ |
| Monitoring Wells OK? (Y/N) | NA | Samples Collected (Y/N) | - | Υ |
| N. A | | | | |
| Notes: | | | | |
| System was off - no power from UPS. Re | estart syste | m at 12·10 | | |
| System was on the power mem or or the | ociai i oyoto | | | |
| Electric heat was on. | | | | |
| | | | | |
| Install new motor contactor for heat pump | compress | or. Confirm heater operati | ion - all OK. | |
| | | | | |
| Check UPS operation. Found battery not | able to hol | d charge. Need new UPS | • | |
| - | | | | |
| | | | | |
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| Date | 4/10/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 10:30 | |

| Treatment System Operation | | Alarms | |
|---|-------------|---------------------------|---|
| System On (Y/N) Y | | A/C Fail (Y/N) | <u>N</u> |
| RW-1 On (Y/N) | | RW-1 (Y/N) | <u>N</u> |
| RW-2 On (Y/N) | | RW-2 (Y/N) | N |
| Blower On (Y/N) | | Blower Pressure (Y/N) | <u>N</u> |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) | N |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.7 | 23.2 | |
| Total Flow (Gallons) | - | - | _ |
| Water Level (Feet Above Probe) | 35.97 | 56.59 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ |
| , | | | - |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Υ | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | off | Building Temperature (°F | |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) 1.8 |
| 0 10 11 11 101 | | | |
| General Building/Site | | O' 'I Dl Oll | 1 (\(\(\lambda \) (\(\lambda \) (\(\lambda \) |
| Building Condition OK? (Y/N) | <u>Y</u> | Circuit Breakers Checked | |
| Grass Mowed (Y/N) | NA NA | Outfall Condition OK? (Y/ | |
| Monitoring Wells OK? (Y/N) | <u>Y</u> | Samples Collected (Y/N) | <u> </u> |
| Notes: | | | |
| Notes. | | | |
| System was off - no power from UPS. N | o alarms se | t. | _ |
| UPS overload light on. Confirm UPS def | | | |
| Get part numbers from UPS to order new | | | |
| Restart system at 13:10. Values above a | _ | | |
| | | | |
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| Date | 4/23/2014 | | |
|-----------|-----------|--|--|
| Inspector | J.Wyckoff | | |
| Time | 10:30 | | |

| Treatment System Operation | | Alarms | |
|---|---------------|---------------------------|--------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | <u>N</u> |
| RW-1 On (Y/N) Y | | RW-1 (Y/N) | N |
| RW-2 On (Y/N) | | RW-2 (Y/N) | N |
| Blower On (Y/N) Y | | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) | N |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.1 | 23.0 | |
| Total Flow (Gallons) | - | | = |
| Water Level (Feet Above Probe) | 34.96 | 56.08 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ |
| | 10.00 | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | (Y/N) YY</td |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Υ | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F | <u>59</u> |
| Heat Exchanger Flow (GPM) | 2.3 | Heat Exchanger Pressure | e (PSI) 9.3 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Y | Circuit Breakers Checked | ` ′ |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y/ | |
| Monitoring Wells OK? (Y/N) | Υ | Samples Collected (Y/N) | Υ |
| | | | |
| Notes: | | | |
| Contain one off No alarma and | | | |
| System was off. No alarms set. | | | |
| Replace UPS with in-kind part. | r to DLC wh | | .to.d |
| Confirm UPS operation - maintains power Restart system at 10:05. Values above a | | | iteu. |
| Restait system at 10.05. Values above a | ilei iesiaii. | | |
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| Date | 5/22/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 14:00 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---------------------------|--------------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | | RW-1 (Y/N) | N |
| ` , | | , , | N |
| . , | | RW-2 (Y/N) | |
| Blower On (Y/N) Y | | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) | <u>N</u> |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.8 | 22.5 | |
| Total Flow (Gallons) | 20602297 | 18199737 | _ |
| Water Level (Feet Above Probe) | 34.38 | 55.89 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | - |
| | | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | (Y/N) Y</td |
| System Pressure (inches water) | 10.0 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Υ | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F | 5) 60 |
| • • | | | |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) <u>1.8</u> |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checked | d (Y/N) Y |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y. | /N) Y |
| Monitoring Wells OK? (Y/N) | Υ | Samples Collected (Y/N) | Y |
| Notes: | | | |
| Notes: | | | |
| Trim grass. | | | |
| | | | |
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| Date | 6/25/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 10:30 | |

| Treatment System Operation | | Alarms | |
|--|----------|--------------------------|-------------|
| System On (Y/N) | Υ | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | Υ | RW-1 (Y/N) | N |
| RW-2 On (Y/N) | Y | RW-2 (Y/N) | N |
| Blower On (Y/N) | Y | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) | N | Sump Level (Y/N) | N |
| | | Camp Level (1714) | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.4 | 21.6 | _ |
| Total Flow (Gallons) | 21646132 | 19287083 | _ |
| Water Level (Feet Above Probe) | 33.76 | 55.41 | _ |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | <u>-</u> |
| Air Ctrimmon | | | |
| Air Stripper Rlower VED Setting (Hortz) | 16 | Intoko/Evhauat Bining O | (2 (V/NI) V |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | K? (Y/N) Y |
| System Pressure (inches water) | 10.0 | Water Leaks (Y/N) | |
| Influent/Effluent Piping OK? (Y/N) |) Y | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F | 68 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressur | e (PSI) 1.5 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | <u> </u> | Circuit Breakers Checke | |
| Grass Mowed (Y/N) | Υ | Outfall Condition OK? (Y | |
| Monitoring Wells OK? (Y/N) | <u> </u> | Samples Collected (Y/N) | <u> </u> |
| Notes: | | | |
| Trim grass. | | | |
| | | | |
| | | | |
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| Date | 7/30/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 11:30 | |

| Treatment System Operation | | Alarms | |
|--|----------------|----------------------------|---------------------|
| System On (Y/N) Y | - | A/C Fail (Y/N) | <u>N</u> |
| RW-1 On (Y/N) | | RW-1 (Y/N) | N |
| RW-2 On (Y/N) | _ | RW-2 (Y/N) | N |
| Blower On (Y/N) | | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) N | • | Sump Level (Y/N) | N |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.5 | 22.6 | |
| Total Flow (Gallons) | 22568327 | 20221473 | _ |
| Water Level (Feet Above Probe) | 33.80 | 55.49 | _ |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | _ |
| 1 1020 20041 (1 001 2 1 00) | 10.0 | | = |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Oh | ` ' |
| System Pressure (inches water) | 10.2 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F | |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI)1.7 |
| | | | |
| General Building/Site | | | 1.070.0 |
| Building Condition OK? (Y/N) | <u>Y</u> | Circuit Breakers Checked | ` ′ |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y | , |
| Monitoring Wells OK? (Y/N) | Y | Samples Collected (Y/N) | <u> </u> |
| Notes: | | | |
| notes: | | | |
| Trim grass. | | | |
| Spoke with Rick from Gladding Cordage | about former v | water supply well near TW- | 5 cluster. |
| Well is no longer used by has above-gra- | | | |
| Gladding would like to remove above-gra | | | |
| Informed Rick it was Okay to remove abo | | | |
| moment was enay to remove as | grade pipii | ig oddonig nazarar Took p | metographic of well |
| - | | | |
| | | | |
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| Date | 8/21/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 8:30 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---|--------------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | - | RW-1 (Y/N) | N |
| | <u>-</u> | , , | N |
| | • | RW-2 (Y/N) | |
| Blower On (Y/N) Y | • | Blower Pressure (Y/N) | <u>N</u> |
| Sump Pump On (Y/N) N | - | Sump Level (Y/N) | <u>N</u> |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.2 | 22.5 | |
| Total Flow (Gallons) | 23152553 | 20797422 | _ |
| Water Level (Feet Above Probe) | 33.97 | 55.83 | _ |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | _ |
| | | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | |
| System Pressure (inches water) | 10.0 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F | 67 |
| , | 0.0 | • | <i></i> |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) <u>1.4</u> |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Y | Circuit Breakers Checked | Y (Y/N) |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y/ | (N) <u>Y</u> |
| Monitoring Wells OK? (Y/N) | Y | Samples Collected (Y/N) | , <u>Y</u> |
| | | | |
| Notes: | | | |
| Trim grass. | | | |
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| Date | 9/29/2014 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 7:00 | |

| Treatment System Operation | | Alarms | |
|--------------------------------------|----------|---------------------------|-------------|
| System On (Y/N) Y | _ | A/C Fail (Y/N) | <u>N</u> |
| RW-1 On (Y/N) | _ | RW-1 (Y/N) | N |
| RW-2 On (Y/N) | - | RW-2 (Y/N) | N |
| Blower On (Y/N) | _ | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) N | - | Sump Level (Y/N) | |
| | - | • | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.5 | 22.8 | |
| Total Flow (Gallons) | 23822623 | 21479508 | = |
| Water Level (Feet Above Probe) | 33.27 | 55.26 | _ |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | _ |
| . rese sep (r eet s. e e) | 10.0 | | - |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | (? (Y/N) Y |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| mindona zimdona i ipinig Ora: (1714) | <u> </u> | Trator Tomporatoro (T) | |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F | 60 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) 1.3 |
| , | | Ğ | . , |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checked | d (Y/N) Y |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y/ | (N) Y |
| Monitoring Wells OK? (Y/N) | Y | Samples Collected (Y/N) | <u> Y</u> |
| , , | | , | |
| Notes: | | | |
| Trim grass. | | | |
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| Date | 10/21/2014 | |
|-----------|------------|--|
| Inspector | J.Wyckoff | |
| Time | 12:00 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---------------------------|--------------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | - | RW-1 (Y/N) | N |
| | _ | , , | N |
| | - | RW-2 (Y/N) | |
| Blower On (Y/N) Y | - | Blower Pressure (Y/N) | <u>N</u> |
| Sump Pump On (Y/N) N | _ | Sump Level (Y/N) | N |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 22.4 | 23.0 | |
| Total Flow (Gallons) | 24531228 | 22207890 | - |
| Water Level (Feet Above Probe) | 33.94 | 55.89 | _ |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | = |
| | | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F | :) 60 |
| , | On 0.0 | . , | |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) <u>1.7</u> |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checked | Y (Y/N) |
| Grass Mowed (Y/N) | Y | Outfall Condition OK? (Y/ | ` ' |
| Monitoring Wells OK? (Y/N) | Υ | Samples Collected (Y/N) | , <u>Y</u> |
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| Notes: | | | |
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| Date | 11/19/2014 |
|-----------|------------|
| Inspector | J.Wyckoff |
| Time | 10:00 |

| Treatment System Operation | | Alarms | |
|---|----------------|--------------------------|-------------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N |
| RW-1 On (Y/N) | - | RW-1 (Y/N) | N |
| RW-2 On (Y/N) Y | - | RW-2 (Y/N) | N |
| Blower On (Y/N) | - | Blower Pressure (Y/N) | N |
| Sump Pump On (Y/N) N | _ | Sump Level (Y/N) | N |
| Sump Fump On (17/N) | _ | Sump Level (1/N) | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.9 | 22.6 | |
| Total Flow (Gallons) | 25450194 | 23163792 | _ |
| Water Level (Feet Above Probe) | 34.41 | 56.02 | _ |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | _ |
| | | | _ |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 44 | Intake/Exhaust Piping Ol | , , |
| System Pressure (inches water) | 10.1 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | <u> </u> | Water Temperature (°F) | 48 |
| | | | |
| Heat Exchanger | | D '11' - T (05 | 7 |
| Heat (On/Off) | On | Building Temperature (°F | |
| Heat Exchanger Flow (GPM) | 2.4 | Heat Exchanger Pressur | e (PSI) 9.0 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Υ | Circuit Breakers Checke | d (Y/N) |
| Grass Mowed (Y/N) | <u>'</u> | Outfall Condition OK? (Y | |
| ` , | <u> </u> | Samples Collected (Y/N) | |
| Monitoring Wells OK? (Y/N) | <u> </u> | Samples Collected (1/14) | <u> </u> |
| Notes: | | | |
| Approximately 1" snow. | | | |
| Reduced blower VFD from 46 HZ to 44 I | HZ per discuss | ions with NYSDEC. | |
| Collected samples from air stripper after | | | |
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| Date | 12/18/2014 | |
|-----------|------------|--|
| Inspector | J.Wyckoff | |
| Time | 11:45 | |

| Treatment System Operation | | Alarms | | |
|---|-----------------|----------------------------|----------------|-------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N | |
| RW-1 On (Y/N) Y | - | RW-1 (Y/N) | N | |
| RW-2 On (Y/N) Y | - | RW-2 (Y/N) | | |
| Blower On (Y/N) | - | Blower Pressure (Y/N) | N | |
| Sump Pump On (Y/N) N | - | Sump Level (Y/N) | N | |
| Sump Fump On (1/14) | - | Sump Level (1/14) | | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 24.4 | 22.9 | _ | |
| Total Flow (Gallons) | 26017112 | 23722819 | _ | |
| Water Level (Feet Above Probe) | 35.10 | 56.50 | _ | |
| Probe Depth (Feet BTOC) | 40.0 | 65.0 | _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | /2 (V/NI) | Y |
| System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | X: (1/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | | 48 |
| initident/Enident Piping OK? (1714) | <u>r</u> | water remperature (r) | _ | 40 |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | =) | 52 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressur | e (PSI) | Inop |
| | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | <u>Y</u> | Circuit Breakers Checke | ` ′ | Y |
| Grass Mowed (Y/N) | Υ | Outfall Condition OK? (Y | · - | Υ |
| Monitoring Wells OK? (Y/N) | <u> </u> | Samples Collected (Y/N) | _ | Y |
| Notes: | | | | |
| Approximately 4" snow. | | | | |
| Increased VFD speed from 44HZ to 46 H | HZ due to low-l | evel detections of VOCs in | Nov 2014 efflu | uent. |
| Collected samples from air stripper after | | | | - |
| Pressure sensor for heat exchanger not | | • | | |
| | <u> </u> | | | |
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| Date | 1/20/2015 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 7:30 | |

| Treatment System Operation | | Alarms | | |
|--|-----------------|--------------------------|--------------------|----------|
| System On (Y/N) Y | | A/C Fail (Y/N) | N | |
| \overrightarrow{RW} -1 On (Y/N) Y | - | RW-1 (Y/N) | N | |
| RW-2 On (Y/N) Y | - | RW-2 (Y/N) | N | |
| Blower On (Y/N) | - | Blower Pressure (Y/N) | N | |
| Sump Pump On (Y/N) N | - | Sump Level (Y/N) | N | |
| | - | , | | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 23.8 | 22.3 | _ | |
| Total Flow (Gallons) | 27139844 | 24778256 | _ | |
| Water Level (Feet Above Probe) | 34.6 | 56.34 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Or | (? (Y/N) | Υ |
| System Pressure (inches water) | 11.0 | Water Leaks (Y/N) | X: (1/1 4) | <u> </u> |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | | 50 |
| initident riping OK: (1714) | | water remperature (i) | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | -) | 40 |
| Heat Exchanger Flow (GPM) | 2.4 | Heat Exchanger Pressure | e (PSI) | 8.8 |
| Canaral Building/Sita | | | | |
| General Building/Site | V | Circuit Proglege Charles | - (\//NI) | V |
| Building Condition OK? (Y/N) | <u>Y</u> | Circuit Breakers Checker | , , | <u>Y</u> |
| Grass Mowed (Y/N) | NA NA | Outfall Condition OK? (Y | , | <u>Y</u> |
| Monitoring Wells OK? (Y/N) | Y | Samples Collected (Y/N) | | <u>Y</u> |
| Notes: | | | | |
| | | | | |
| Replace defective pressure sensor for he | eat pump. | | | |
| Check for heat pump codes: Code 8 = n | ormal operation | 1 | | |
| Oncor for front pump dodder. Code C | omai operation | · | | |
| Aprox 6" snow cover. | | | | |
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| Date | 2/25/2015 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 11:30 | |

| Treatment System Operation | | Alarms | |
|---|----------------|---------------------------------|----------|
| System On (Y/N) Y | | A/C Fail (Y/N) N | |
| RW-1 On (Y/N) Y | - | RW-1 (Y/N) N | |
| RW-2 On (Y/N) Y | - | RW-2 (Y/N) N | |
| Blower On (Y/N) Y | - | Blower Pressure (Y/N) N | |
| Sump Pump On (Y/N) N | = | Sump Level (Y/N) N | |
| | - | | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.3 | 24.1 | |
| Total Flow (Gallons) | 28353707 | 25872041 | |
| Water Level (Feet Above Probe) | 34.33 | 55.53 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Υ |
| System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 45 |
| , | | , | |
| Heat Exchanger | | | |
| Heat (On/Off) | <u>On</u> | Building Temperature (°F) | 58 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| Caracal Duilding/Oita | | | |
| General Building/Site | V | Circuit Progkers Checked (V/N) | V |
| Building Condition OK? (Y/N) | <u>Y</u> | Circuit Breakers Checked (Y/N) | <u> </u> |
| Grass Mowed (Y/N) | NA NA | Outfall Condition OK? (Y/N) | |
| Monitoring Wells OK? (Y/N) | <u>NA</u> | Samples Collected (Y/N) | <u> </u> |
| Notes: | | | |
| | | | |
| Aproximately 3ft snow. Monitoring wells | not inspected. | | |
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| Date | 3/19/2015 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 9:20 | |

| Treatment System Operation | | Alarms | |
|---|-----------------|---------------------------------|----------|
| Treatment System Operation | | | |
| System On (Y/N) Y RW-1 On (Y/N) Y | • | A/C Fail (Y/N) N N | |
| . , | ı | | |
| RW-2 On (Y/N) Y | | RW-2 (Y/N) N | |
| Blower On (Y/N) Y | | Blower Pressure (Y/N) N | |
| Sump Pump On (Y/N) N | | Sump Level (Y/N) N | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.7 | 23.9 | |
| Total Flow (Gallons) | 29114011 | 26551528 | |
| Water Level (Feet Above Probe) | 35.40 | 56.36 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| | | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Y |
| System Pressure (inches water) | 11.2 | Water Leaks (Y/N) | N |
| Influent/Effluent Piping OK? (Y/N) | Y | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 53 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| Canaral Building/Sita | | | |
| General Building/Site | Y | Circuit Progkers Checked (V/N) | V |
| Building Condition OK? (Y/N) | NA | Circuit Breakers Checked (Y/N) | <u> </u> |
| Grass Mowed (Y/N) | | Outfall Condition OK? (Y/N) | <u> </u> |
| Monitoring Wells OK? (Y/N) | <u>NA</u> | Samples Collected (Y/N) | <u> </u> |
| Notes: | | | |
| | | | |
| Aproximately 1ft snow/ice. | | | |
| | | | |
| Blower motor bearing making noise. Atte | | | e |
| Shut down blower. Clean grease passage | ges in motor. (| Grease blower - noise gone. | |
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| Date | 4/1/2015 | |
|-----------|-----------|--|
| Inspector | J.Wyckoff | |
| Time | 7:00 | |

| Treatment System Operation | | Alarms | | |
|---|-----------------|----------------------------|--------------|-----------|
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) | No | |
| ` ' | - | | | |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) | No | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | NR | NR | | |
| Total Flow (Gallons) | NR | NR | _ | |
| Water Level (Feet Above Probe) | NR | NR | _ | |
| Probe Depth (Feet BTOC) | NR | NR | _ | |
| | | | | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping O | K? (Y/N) | Yes |
| System Pressure (inches water) | NR | Water Leaks (Y/N) | | Yes |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | NR_ |
| | | | | |
| Heat Exchanger | _ | | | |
| Heat (On/Off) | On | Building Temperature (°I | • | NR |
| Heat Exchanger Flow (GPM) | NR | Heat Exchanger Pressul | re (PSI) | NR |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Voo | Circuit Progkers Chacks | d (V/N) | NR |
| | Yes | Circuit Breakers Checke | , , | |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y | , | Yes |
| Monitoring Wells OK? (Y/N) | NR | Samples Collected (Y/N) |) | <u>No</u> |
| Notes: | | | | |
| System operating but not sending fax no | tifications. Re | boot PLC to restore fax re | ports. | |
| No additional O&M performed today | | | p | |
| , , , , , , , , , , , , , , , , , , , | | | | |
| NR - Not recorded | | | | |
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| Date | 4/21/2015 | |
|-----------|-------------|--|
| Inspector | A. Goodrich | |
| Time | NR | |

| Treatment Creaters Operation | | Alexand | | |
|---|--------------|---------------------------|------------------------|-----|
| Treatment System Operation | | Alarms | NI - | |
| System On (Y/N) Yes | <u>.</u> | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | <u>-</u> | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) | No No | |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) | <u>No</u> | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | <u>No</u> | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 23.9 | 21.6 | _ | |
| Total Flow (Gallons) | 30260887 | 27588370 | _ | |
| Water Level (Feet Above Probe) | 35.49 | 57.46 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | - | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | (Y/N)</td <td>Yes</td> | Yes |
| System Pressure (inches water) | 10.5 | Water Leaks (Y/N) | , | Yes |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 50 |
| | | , | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | <u>On</u> | Building Temperature (°F | • | 64 |
| Heat Exchanger Flow (GPM) | 2.4 | Heat Exchanger Pressur | e (PSI) | 8.3 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | d (Y/N) | NR |
| Grass Mowed (Y/N) | NA | Outfall Condition OK? (Y. | /N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | | Yes |
| Notes: | | | | |
| Annual groundwater sampling today - pla | ace PDBs | | | |
| | | | | |
| NR - Not recorded | | | | |
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| Date | 5/8/2015 |
|-----------|-------------|
| Inspector | A. Goodrich |
| Time | NR |

| Treatment System Operation | | Alarms | | |
|--|----------|--------------------------|-----------|-----|
| | | A/C Fail (Y/N) | No | |
| System On (Y/N) Yes RW-1 On (Y/N) Yes | - | RW-1 (Y/N) | No | |
| , , | - | ` , | No | |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) | | |
| Blower On (Y/N) Yes | = | Blower Pressure (Y/N) | No No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) | <u>No</u> | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 23.6 | 21.2 | | |
| Total Flow (Gallons) | 30847546 | 28115252 | _ | |
| Water Level (Feet Above Probe) | 34.47 | 55.87 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Or | (2 (Y/N) | Yes |
| System Pressure (inches water) | 10.1 | Water Leaks (Y/N) | X! (1/1N) | Yes |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 50 |
| illident/Ellident Fiping OK? (1714) | res | water remperature (r) | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | -) | 63 |
| Heat Exchanger Flow (GPM) | 2.3 | Heat Exchanger Pressure | e (PSI) | 8.2 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | 4 (V/NI) | NR |
| Grass Mowed (Y/N) | NA NA | Outfall Condition OK? (Y | • • | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | , | Yes |
| Worldwing Wells OK! (1714) | 165 | Samples Collected (1/14) | | 169 |
| Notes: | | | | |
| Collect PDB samples today | | | | |
| | | | | |
| NR - Not recorded | | | | |
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| Date | 6/22/2015 | |
|-----------|------------|--|
| Inspector | J. Wyckoff | |
| Time | NR | |

| Treatment System Operation | | Alarms | |
|-------------------------------------|-------|---------------------------------|-------------|
| System On (Y/N) Yes | | A/C Fail (Y/N) Yes | (see below) |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) No | _` ′ |
| RW-2 On (Y/N) Yes | | RW-2 (Y/N) No | _ |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) No | _ |
| Sump Pump On (Y/N) No | | Sump Level (Y/N) No | _ |
| | | | _ |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25.3 | 21.8 | |
| Total Flow (Gallons) | NR | NR | |
| Water Level (Feet Above Probe) | 34.33 | 56.34 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.1 | Water Leaks (Y/N) | Yes |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| initident/Entident Piping OK? (1/N) | res | water remperature (F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F) | 74 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| | | | |
| General Building/Site | ., | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
| System off due to AC failure. | | | |
| Restarted system at 11:45. | | | |
| Trim grass. | | | |
| NR - Not recorded | | | |
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| Date | 7/31/2015 | |
|-----------|------------|--|
| Inspector | J. Wyckoff | |
| Time | 19:00 | |

| Treatment System Operation | | Alarms | | |
|--|---------|----------------------------|---------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | • | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | • | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | No | |
| | - | . , , , , , | | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.3 | 22.3 | | |
| Total Flow (Gallons) | NR_ | NR | | |
| Water Level (Feet Above Probe) | 32.86 | 55.53 | | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK | ? (Y/N) | Yes |
| System Pressure (inches water) | 10.1 | Water Leaks (Y/N) | ` ′ ′ | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | _ | 50 |
| | | | _ | |
| Heat Exchanger | | | | |
| Heat (On/Off) | Off | Building Temperature (°F) | | 76 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | (PSI) | 1.4 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | (V/NI) | Yes |
| Grass Mowed (Y/N) | No | Outfall Condition OK? (Y/N | • | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | _ | Yes |
| World Wells OIX: (1714) | 163 | Samples Collected (1714) | _ | 163 |
| Notes: | | | | |
| Reboot PLC due to no fax alerts since 7/ | /26/15. | | | |
| NR - Not recorded | | | | |
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| Date | 8/28/2015 | |
|-----------|------------|--|
| Inspector | J. Wyckoff | |
| Time | 9:00 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---------------------------------|---------------------------------------|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) No | |
| | _ | | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 24.8 | 22.0 | |
| Total Flow (Gallons) | 34369620 | 31226012 | |
| Water Level (Feet Above Probe) | 33.05 | 55.01 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| | | | |
| Air Stripper | | 1.1.1.15.1 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| Heat Eveloper | | | |
| Heat Exchanger | O# | Duilding Town and use (°C) | 60 |
| Heat (On/Off) | Off | Building Temperature (°F) | 60 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | No | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| memoral graduation (may | | Campico Concotto (1711) | |
| Notes: | | | |
| Trim grass | | | |
| Perform routine O&M | | | |
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 Date
 9/23/2015

 Inspector
 JRW / L. Whalen

 Time
 7:30

| Tuesday | | Alama | |
|--|------------|------------------------------------|-------|
| Treatment System Operation | | Alarms | |
| System On (Y/N) Yes | - | A/C Fail (Y/N) No | _ |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) No | _ |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) No | _ |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) No | _ |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) No | _ |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25 | 21.5 | |
| Total Flow (Gallons) | 35308715 | 32036213 | |
| Water Level (Feet Above Probe) | 32.95 | 54.98 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| | | | |
| Air Stripper | 40 | Intoles/Full acet Divisor OKO (MN) | V |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | No So |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F) | 54 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
| 10.00. | | | |
| 08:00 - Shut system down to clean air st | ripper. | | |
| 12:50 - Restart system and collect syste | m samples. | | |
| Trim grace | | | |
| Trim grass. | | | |
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| Date | 10/26/2015 | |
|-----------|------------|--|
| Inspector | JRW | |
| Time | 12:30 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---------------------------------|-------|
| Treatment System Operation | | | |
| System On (Y/N) Yes | - | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | • | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | = | Sump Level (Y/N) No | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.5 | 21.5 | |
| Total Flow (Gallons) | 36337283 | 33063342 | |
| Water Level (Feet Above Probe) | 33.98 | 55.30 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Air Ctuinn au | | | |
| Air Stripper | 46 | Intoko/Eyhauat Dining OK2 (V/N) | Vaa |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.4 | Water Leaks (Y/N) | No No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| Heat Exchanger | | | |
| Heat (On/Off) | Off | Building Temperature (°F) | 58 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.2 |
| Canada Duilding/Cita | | | |
| General Building/Site | Vee | Circuit Drankora Charles (V/N) | Voc |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
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| Date | 11/20/2015 | |
|-----------|------------|--|
| Inspector | JRW | |
| Time | 12:30 | |

| Treatment System Operation | | Alarme | | |
|------------------------------------|----------|---------------------------|------------|------------|
| Treatment System Operation | | Alarms | No | |
| System On (Y/N) Yes | • | A/C Fail (Y/N) | No No | |
| RW-1 On (Y/N) Yes | • | RW-1 (Y/N) | No No | |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | No | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 21.6 | 22.0 | | |
| Total Flow (Gallons) | 36931037 | 33654472 | - | |
| Water Level (Feet Above Probe) | 33.88 | 55.55 | - | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ | |
| | | | | |
| Air Stripper | 46 | Intoko/Evhoust Dining Ok | (2 (\/\\\) | Vaa |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | K. (Y/IN) | Yes |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | | No No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 50 |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F |) | 57 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) | 1.2 |
| | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | , , | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/ | N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | | <u>Yes</u> |
| Notes: | | | | |
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| Date | 12/21/2015 | |
|-----------|------------|--|
| Inspector | L. Whalen | |
| Time | 11:52 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---------------------------------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | • | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | • | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | • | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) No | |
| | - | | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.9 | 22.0 | |
| Total Flow (Gallons) | 37903974 | 34623044 | |
| Water Level (Feet Above Probe) | 34.04 | 55.87 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| | | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.6 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 55 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| | | | |
| General Building/Site | ., | 0 | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
| Notes. | | | |
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| Date | 1/25/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 13:00 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|----------|---|----------|
| Treatment System Operation | | | |
| System On (Y/N) Yes | = | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | _ | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | = | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) No | <u> </u> |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 20.7 | 22.1 | |
| Total Flow (Gallons) | 38917282 | 35660351 | |
| Water Level (Feet Above Probe) | 34.21 | 55.93 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| rioso Bopar (rioso Broo) | 10.00 | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N | |
| System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | _ | | |
| Heat (On/Off) | On | Building Temperature (°F) | 64 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | | • | |
| ` , | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
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| Date | 2/26/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:30 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|------------|---------------------------------|------------|
| Treatment System Operation | | | |
| System On (Y/N) Yes | = | A/C Fail (Y/N) No | <u> </u> |
| RW-1 On (Y/N) Yes | _ | RW-1 (Y/N) No | _ |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) No | <u> </u> |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 21.9 | 22.2 | |
| Total Flow (Gallons) | 39895355 | 36664748 | |
| Water Level (Feet Above Probe) | 35.91 | 58.30 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Trobb Bopin (Foot Broo) | 40.00 | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 61 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| ` , | | ` , | Yes |
| Monitoring Wells OK? (Y/N) | <u>Yes</u> | Samples Collected (Y/N) | <u>res</u> |
| Notes: | | | |
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| Date | 3/18/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:30 | |

| Treatment System Operation | | Alarms | |
|--|----------|---------------------------------|-----|
| Treatment System Operation | | | |
| System On (Y/N) Yes | - | A/C Fail (Y/N) No | _ |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) No | _ |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) No | _ |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) No | _ |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) No | _ |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 20.6 | 21.4 | |
| Total Flow (Gallons) | 40538376 | 37322526 | |
| Water Level (Feet Above Probe) | 38.82 | 56.23 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Trobb Bepair (Feet Bree) | 40.00 | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.6 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 50 |
| | | | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 64 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
| Turned down temp on unit heater for spr | ina | | |
| Turriod down temp on anic nodici for opi | <u>g</u> | | |
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 Date
 4/22/2016

 Inspector
 L. Whalen

 Time
 7:45

| Treatment System Operation Alarms System On (Y/N) Yes A/C Fail (Y/N) No RW-1 On (Y/N) Yes RW-1 (Y/N) No | |
|---|-----|
| | |
| | |
| · ' ' | |
| · / | |
| Blower On (Y/N) Yes Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No Sump Level (Y/N) No | |
| Recovery Wells RW-1 RW-2 | |
| Flow Rate (GPM) 21.1 21.2 | |
| Total Flow (Gallons) 41572548 38385903 | |
| Water Level (Feet Above Probe) 32.93 55.98 | |
| Probe Depth (Feet BTOC) 40.00 65.00 | |
| Air Stripper | |
| Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) 10.3 Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) Yes Water Leaks (17N) Water Leaks (17N) Water Temperature (°F) | 52 |
| Tes water reinperature (F) | 52 |
| Heat Exchanger | |
| Heat (On/Off) On Building Temperature (°F) | 69 |
| Heat Exchanger Flow (GPM) Heat Exchanger Pressure (PSI) | 1.4 |
| General Building/Site | |
| Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) No Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) | Yes |
| | |
| Notes: | |
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| Date | 5/23/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:00 | |

| Treetment System Operation | | Alormo | | |
|---|----------|---------------------------|--------------------|-----|
| Treatment System Operation | | Alarms | No | |
| System On (Y/N) Yes | = | A/C Fail (Y/N) | No No | |
| RW-1 On (Y/N) Yes | _ | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | = | RW-2 (Y/N) | | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | <u>No</u> | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 21.9 | 21.1 | | |
| Total Flow (Gallons) | 42478952 | 39289074 | _ | |
| Water Level (Feet Above Probe) | 32.36 | 55.53 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | - | |
| Air Stringer | | | | |
| Air Stripper Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | (2 (V/NI) | Yes |
| System Pressure (inches water) | 10.4 | Water Leaks (Y/N) | X: (1/1 N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 51 |
| initident/Enident Fiping OK! (1/14) | 165 | water reinperature (r) | | 31 |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | =) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressur | e (PSI) | 1.2 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checke | d (Y/N) | Yes |
| Grass Mowed (Y/N) | No | Outfall Condition OK? (Y. | , , | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | , | Yes |
| Matan | | | | |
| Notes: | | | | |
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| Date | 6/6/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:30 | |

| Treatment System Operation | | Alarms | | |
|---|-----------------|----------------------------|---------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| • | _ | ` ′ | No | |
| | _ | RW-1 (Y/N) | | |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | No | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 24.6 | 21.0 | | |
| Total Flow (Gallons) | - | | | |
| Water Level (Feet Above Probe) | 32.26 | 56.29 | | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | | |
| 11000 20041 (1 001 21 00) | 10.00 | | | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? | ? (Y/N) | Yes |
| System Pressure (inches water) | 10.2 | Water Leaks (Y/N) | | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 51 |
| | | | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F) | | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | (PSI) | 1.4 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N | , , | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | -, | No |
| Worldoning Wond Ork: (1714) | 100 | Campies Collected (1714) | | |
| Notes: | | | | |
| System shut down on 6/5/16 @ 02:16. | Could not be re | estarted remotely. | | |
| Re-boot PLC and restarted system at 07 | 7:00. Values al | pove after restart. | | |
| Mowed grass. | | | | |
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| Date | 6/24/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 6:00 | |

| Treatment System Operation | | Alarms | |
|---|-------------------|---------------------------------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) No | - |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) No | = |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) No | - |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) No | - |
| <u> </u> | - | | = |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 24.9 | 21.6 | |
| Total Flow (Gallons) | 43515441 | 40232278 | |
| Water Level (Feet Above Probe) | 31.47 | 55.34 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.5 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 52 |
| | | . , , | |
| Heat Exchanger | | | |
| Heat (On/Off) | <u>On</u> | Building Temperature (°F) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | No |
| | | | |
| Notes: | | VIO.4 (4.0. C) 0.4.4.0 | |
| System restarted upon arrival. System s | | | |
| Restarted system at 06:30. Values above | ve after restart. | | |
| Mowed grass. | | | |
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| Date | 7/25/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:10 | |

| Treatment System Operation | | Alarms | |
|------------------------------------|-----------|---------------------------------|-----|
| System On (Y/N) Yes | _ | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | _ | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) No | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25.1 | 22.6 | |
| Total Flow (Gallons) | 44274666 | 40923547 | |
| Water Level (Feet Above Probe) | 30.81 | 54.96 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.2 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 52 |
| | | (1) | |
| Heat Exchanger | | | |
| Heat (On/Off) | <u>On</u> | Building Temperature (°F) | 72 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
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| Date | 8/18/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:10 | |

| Treatment System Operation | | Alarms | | |
|---|----------|--------------------------|--------------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | - | RW-1 (Y/N) | No | • |
| RW-2 On (Y/N) Yes | - | RW-2 (Y/N) | No | • |
| Blower On (Y/N) Yes | - | Blower Pressure (Y/N) | No | • |
| Sump Pump On (Y/N) No | - | Sump Level (Y/N) | No | • |
| | - | | | - |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.8 | 23.2 | | |
| Total Flow (Gallons) | 44924222 | 41522859 | | |
| Water Level (Feet Above Probe) | 31.51 | 55.77 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | | |
| Air Ctuinner | | | | |
| Air Stripper Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ol | K2 (Y/NI) | Yes |
| System Pressure (inches water) | 10.3 | Water Leaks (Y/N) | X: (1/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 52 |
| illident/Endent Piping OK? (17N) | res | water remperature (r) | | 52 |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | =) | 71 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressur | e (PSI) | 1.3 |
| | | | | |
| General Building/Site | V. | O're 't Deceler Object | 1 () (/) (| |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checke | , , | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y | , | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | | Yes |
| Notes: | | | | |
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| Date | 9/16/2016 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 8:00 | |

| T | | Alama | | |
|--|------------------|------------------------------|------------|-----|
| Treatment System Operation | | Alarms | NI- | |
| System On (Y/N) Yes RW-1 On (Y/N) Yes | _ | A/C Fail (Y/N) | No No | |
| RW-1 On (Y/N) Yes RW-2 On (Y/N) Yes | _ | RW-1 (Y/N) RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | _ | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | _ | Sump Level (Y/N) | No | |
| 3dilip F dilip Oli (1/N) 100 | _ | Sump Level (1/14) | INO | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.6 | 23.7 | | |
| Total Flow (Gallons) | Not reported | Not reported | | |
| Water Level (Feet Above Probe) | 31.33 | 55.24 | | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK | ? (Y/N) | Yes |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 51 |
| Hoot Evolunger | | | | |
| Heat Exchanger Heat (On/Off) | On | Building Temperature (°F) | | 69 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | | 1.3 |
| Tieat Exchanger Flow (Of W) | 0.0 | Tical Exchanger i ressure | (1 01) | 1.0 |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | , , | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/I | N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | | Yes |
| Notes: | | | | |
| System down on arrival due to ASB VFD | O Alarm - likely | caused by power interruption | n. | |
| System restarted at 6:52. | | | | |
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| Date | 10/31/2016 |
|-----------|------------|
| Inspector | L. Whalen |
| Time | 7:30 |

| Treatment System Operation | | Alarms | |
|---|----------|---------------------------------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | _ | RW-1 (Y/N) No | |
| RW-2 On (Y/N) Yes | _ | RW-2 (Y/N) No | |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) No | |
| Sump Pump On (Y/N) No | | Sump Level (Y/N) No | |
| | <u>—</u> | | |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25.2 | 23.8 | |
| Total Flow (Gallons) | 47490153 | 43894225 | |
| Water Level (Feet Above Probe) | 32.67 | 56.48 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| A O(2 | | | |
| Air Stripper Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 53 |
| initident Fighting OK: (1714) | | Water remperature (1) | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 70 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | Yes | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Notes: | | | |
| Sampled: RW-1 70 |)5 | | |
| RW-2 71 | 0 | | |
| EFF 46 HZ 71 | 5 | | |
| | | | |
| System Chec 745 | | | |
| Trimmed gra 800 | | | |
| (last time for the season) | | | |
| | | | |
| Turned ceiling heater on Low | | | |

| Date | 11/28/2016 |
|-----------|------------|
| Inspector | L. Whalen |
| Time | 6:20 |

| Treatment System Operation | | Alarms | | |
|------------------------------------|----------------|---------------------------|-----------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) | <u>No</u> | |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | | Sump Level (Y/N) | No | |
| | | | | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.8 | 23.6 | _ | |
| Total Flow (Gallons) | 48297839 | 44642649 | _ | |
| Water Level (Feet Above Probe) | 32.82 | 56.42 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ | |
| | | - | _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Ok | (? (Y/N) | Yes |
| System Pressure (inches water) | 10.7 | Water Leaks (Y/N) | | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 52 |
| | | | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F |) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) | 1.4 |
| | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | (Y/N) | Yes |
| Grass Mowed (Y/N) | Snow | Outfall Condition OK? (Y/ | N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | | Yes |
| . , | | | | |
| Notes: | | | | |
| Sampled: RW-1 6 | 05 | | | |
| RW-2 6 | 10 | | | |
| EFF 46 HZ 6 | 15 | | | |
| | | | | |
| System Check: 6 | 20 | | | |
| | | | | |
| (Turned ceiling heater up to Med.) | 28 ° out today | | | |

| Date | 12/4/2016 | |
|-----------|-----------|--|
| Inspector | LDW/DSW | |
| Time | 11:25 | |

| System On (Y/N) Yes | | | | |
|---|------------------------------------|--------------|-------------------------------|-----------|
| RW-1 On (Y/N) Yes RW-2 (Y/N) No RW-2 (Y/N) RW-2 (Y/N) | Treatment System Operation | | Alarms | |
| RW-2 (On (Y/N) Yes Blower Pressure (Y/N) No Sump Pump On (Y/N) No Sump Level (Y/N) No Recovery Wells | System On (Y/N) Ye | es | A/C Fail (Y/N) | <u>lo</u> |
| Blower On (Y/N) Yes Sump Pump On (Y/N) No Sump Level (Y/N) No No Sump Level (Y/N) No No No Sump Level (Y/N) No | RW-1 On (Y/N) | es | RW-1 (Y/N) | lo |
| Sump Pump On (Y/N) No Sump Level (Y/N) No No No No No No No Not reported (Pet Above Probe) 25.7 24.0 Probe Depth (Feet BTOC) 40.00 65.00 Air Stripper Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes System Pressure (inches water) 10.8 Water Leaks (Y/N) No Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) Heat Exchanger Heat (On/Off) On Building Temperature (°F) 74 Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.4 General Building/Site Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Grass Mowed (Y/N) No | RW-2 On (Y/N) | es | RW-2 (Y/N) | lo |
| Recovery Wells | Blower On (Y/N) Ye | es | Blower Pressure (Y/N) | lo |
| Flow Rate (GPM) Total Flow (Gallons) Water Level (Feet Above Probe) Probe Depth (Feet BTOC) Air Stripper Blower VFD Setting (Hertz) System Pressure (inches water) Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) Monon Notes: System Prestarted at 11:19AM (12-4-16) | Sump Pump On (Y/N) | 0 | Sump Level (Y/N) | lo |
| Flow Rate (GPM) Total Flow (Gallons) Water Level (Feet Above Probe) Probe Depth (Feet BTOC) Air Stripper Blower VFD Setting (Hertz) System Pressure (inches water) Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) Monon Notes: System Prestarted at 11:19AM (12-4-16) | | | | |
| Total Flow (Gallons) Water Level (Feet Above Probe) Probe Depth (Feet BTOC) Air Stripper Blower VFD Setting (Hertz) System Pressure (inches water) Interpreted Water Leaks (Y/N) Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Heat Exchanger Pressure (PSI) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Monitoring Wells OK? (Y/N) Yes System Restarted at 11:19AM (12-4-16) | Recovery Wells | RW-1 | RW-2 | |
| Water Level (Feet Above Probe) Probe Depth (Feet BTOC) Air Stripper Blower VFD Setting (Hertz) System Pressure (inches water) Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) Heat Exchanger Pressure (PSI) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Water Leaks (Y/N) No Heat Exchanger Pressure (PSI) Af Heat Exchanger Pressure (PSI) Ageneral Building/Site Building Condition OK? (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Flow Rate (GPM) | 25.7 | 24.0 | |
| Air Stripper Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes System Pressure (inches water) 10.8 Water Leaks (Y/N) No Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) Heat Exchanger Heat (On/Off) On Building Temperature (°F) 74 Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.4 General Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Total Flow (Gallons) | Not reported | Not reported | |
| Air Stripper Blower VFD Setting (Hertz) 46 Intake/Exhaust Piping OK? (Y/N) Yes System Pressure (inches water) 10.8 Water Leaks (Y/N) No Influent/Effluent Piping OK? (Y/N) Yes Water Temperature (°F) Heat Exchanger Heat (On/Off) On Building Temperature (°F) 74 Heat Exchanger Flow (GPM) 0.0 Heat Exchanger Pressure (PSI) 1.4 General Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Water Level (Feet Above Probe) | 33.60 | 57.08 | |
| Blower VFD Setting (Hertz) System Pressure (inches water) Intake/Exhaust Piping OK? (Y/N) Yes Water Leaks (Y/N) No Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Heat Exchanger Pressure (PSI) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No No No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| Blower VFD Setting (Hertz) System Pressure (inches water) Intake/Exhaust Piping OK? (Y/N) Yes Water Leaks (Y/N) No Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Heat Exchanger Pressure (PSI) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No No No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | | | | |
| System Pressure (inches water) Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) 74 Heat Exchanger Pressure (PSI) I.4 General Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Grass Mowed (Y/N) No Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Air Stripper | | | |
| Influent/Effluent Piping OK? (Y/N) Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) No No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/ | N) Yes |
| Heat Exchanger Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) 74 Heat Exchanger Flow (GPM) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | No |
| Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) Heat Exchanger Flow (GPM) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | |
| Heat (On/Off) Heat Exchanger Flow (GPM) On Building Temperature (°F) Heat Exchanger Flow (GPM) Heat Exchanger Pressure (PSI) General Building/Site Building Condition OK? (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | | | | |
| Heat Exchanger Flow (GPM) O.0 Heat Exchanger Pressure (PSI) 1.4 General Building/Site Building Condition OK? (Y/N) Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Heat Exchanger | | | |
| General Building/Site Building Condition OK? (Y/N) Yes Circuit Breakers Checked (Y/N) Yes Grass Mowed (Y/N) N/A Outfall Condition OK? (Y/N) Yes Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Heat (On/Off) | On | Building Temperature (°F) | 74 |
| Building Condition OK? (Y/N) Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI |) 1.4 |
| Building Condition OK? (Y/N) Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | | | | |
| Grass Mowed (Y/N) Monitoring Wells OK? (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | General Building/Site | | | |
| Monitoring Wells OK? (Y/N) Yes Samples Collected (Y/N) No Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N |) Yes |
| Notes: System down on arrival. System restarted at 11:19AM (12-4-16) | Grass Mowed (Y/N) | N/A | Outfall Condition OK? (Y/N) | Yes |
| System down on arrival. System restarted at 11:19AM (12-4-16) | Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | No |
| System down on arrival. System restarted at 11:19AM (12-4-16) | | | | |
| System restarted at 11:19AM (12-4-16) | | | | |
| | System down on arrival. | | | |
| System check: 11:30 | System restarted at 11:19AM (12-4 | -16) | | |
| System check: 11:30 | | | | |
| | System check: | 11:30 | | |

| Date | 12/29/2016 |
|-----------|------------|
| Inspector | L. Whalen |
| Time | 7:30 |

| Treatment System Operation | | Alarms | |
|---|------------------------|---------------------------------|------|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | _ |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) No | • |
| RW-2 On (Y/N) Yes | | RW-2 (Y/N) No | • |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) No | • |
| Sump Pump On (Y/N) No | | Sump Level (Y/N) No | • |
| | | | • |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25.5 | 23.7 | |
| Total Flow (Gallons) | NR | NR | |
| Water Level (Feet Above Probe) | 33.02 | 56.65 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| | | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.8 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 54.2 |
| initiative indentitiping art. (1714) | 100 | vvator romporaturo (1) | 01.2 |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.4 |
| Tiout Exchanger Flow (OF W) | 0.0 | ricat Exchanger ricodare (rich) | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | N/A | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | Yes | Samples Collected (Y/N) | Yes |
| Worldoning Wells Ore: (1714) | 103 | Camples Collected (1714) | 103 |
| Notes: | | | |
| Sampled: RW-1 6:05 | | | |
| RW-2 6:10 | | | _ |
| EFF 46 HZ 6:15 | | | |
| 211 10112 0.10 | | | |
| Shut down and and restart system to res | et PLC | | _ |
| 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | - · · · - · | | |
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| | | | |
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| Date | 1/30/2017 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 6:45 | |

| Treatment System Operation | | Alarms | | |
|---|-------|---------------------------|------------------------|-----|
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) Yes | | Sump Level (Y/N) | No | |
| <u> </u> | | 23p 23.00 (17.1) | | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.7 | 23.7 | | |
| Total Flow (Gallons) | | | _ | |
| Water Level (Feet Above Probe) | 32.61 | 56.65 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ | |
| - | | | _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Oh | (Y/N)</td <td>Yes</td> | Yes |
| System Pressure (inches water) | 10.1 | Water Leaks (Y/N) | | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 59 |
| · · · · · · · · · · · · · · · · · · · | | | | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | -) | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) | 1.6 |
| | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | (Y/N) | Yes |
| Grass Mowed (Y/N) | N/A | Outfall Condition OK? (Y/ | /N) | Yes |
| Monitoring Wells OK? (Y/N) | N/A | Samples Collected (Y/N) | | Yes |
| | | | | |
| Notes: | | | | |
| Sampled: RW-1 - 630 | | | | |
| RW-2 - 635 | | | | |
| EFF 46 Hz - 640 | | | | |
| | | | | |
| System shut down and restart | | | | |
| | | | | |
| Faxed out copy of Treatment System Info |) | | | |
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| Date | 2/27/2017 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:30 | |

| Treatment System Operation | | Alarms | |
|---|-------|---------------------------------|------|
| System On (Y/N) Yes | | A/C Fail (Y/N) No | |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) No | _ |
| . , | | RW-2 (Y/N) No | _ |
| ` ' | | | _ |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) No | _ |
| Sump Pump On (Y/N) Yes | | Sump Level (Y/N) No | _ |
| Recovery Wells | RW-1 | RW-2 | |
| Flow Rate (GPM) | 25.5 | 23.6 | |
| Total Flow (Gallons) | | | |
| Water Level (Feet Above Probe) | 34.38 | 58.05 | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | |
| - 1 1000 Dopan (1 001 D 1 00) | 10.00 | | |
| Air Stripper | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping OK? (Y/N) | Yes |
| System Pressure (inches water) | 10.6 | Water Leaks (Y/N) | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | 51.2 |
| · · · · · · · · · · · · · · · · · · · | | , , , | |
| Heat Exchanger | | | |
| Heat (On/Off) | On | Building Temperature (°F) | 67.1 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure (PSI) | 1.3 |
| - | | | |
| General Building/Site | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked (Y/N) | Yes |
| Grass Mowed (Y/N) | N/A | Outfall Condition OK? (Y/N) | Yes |
| Monitoring Wells OK? (Y/N) | N/A | Samples Collected (Y/N) | Yes |
| - · · · · · · · · · · · · · · · · · · · | | | |
| Notes: | | | |
| Samples: RW-1 - 700 | | | |
| RW-2 - 705 | | | |
| EFF 46 Hz - 710 | | | |
| System Check 730 | | | |
| Building Check 740 | | | _ |
| Grounds & Outfall Check 740 | | | |
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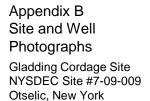
| Date | 3/23/2017 | |
|-----------|-----------|--|
| Inspector | L. Whalen | |
| Time | 7:30 | |

| | | | - | |
|------------------------------------|-------|---------------------------|------------------------|------|
| Treatment System Operation | | Alarms | | |
| System On (Y/N) Yes | | A/C Fail (Y/N) | No | |
| RW-1 On (Y/N) Yes | | RW-1 (Y/N) | No | |
| RW-2 On (Y/N) Yes | | RW-2 (Y/N) | No | |
| Blower On (Y/N) Yes | | Blower Pressure (Y/N) | No | |
| Sump Pump On (Y/N) No | | Sump Level (Y/N) | No | |
| | | Sump Level (1/N) | INO | |
| Recovery Wells | RW-1 | RW-2 | | |
| Flow Rate (GPM) | 25.4 | 23.7 | | |
| Total Flow (Gallons) | | | - | |
| Water Level (Feet Above Probe) | 31.78 | 56.27 | _ | |
| Probe Depth (Feet BTOC) | 40.00 | 65.00 | _ | |
| | 40.00 | | _ | |
| Air Stripper | | | | |
| Blower VFD Setting (Hertz) | 46 | Intake/Exhaust Piping Oh | (Y/N)</td <td>Yes</td> | Yes |
| System Pressure (inches water) | 11.5 | Water Leaks (Y/N) | · / _ | No |
| Influent/Effluent Piping OK? (Y/N) | Yes | Water Temperature (°F) | | 49.8 |
| | | , | _ | |
| Heat Exchanger | | | | |
| Heat (On/Off) | On | Building Temperature (°F | | 67 |
| Heat Exchanger Flow (GPM) | 0.0 | Heat Exchanger Pressure | e (PSI) | 1.3 |
| _ | | | | |
| General Building/Site | | | | |
| Building Condition OK? (Y/N) | Yes | Circuit Breakers Checked | (N/Y) | Yes |
| Grass Mowed (Y/N) | - | Outfall Condition OK? (Y/ | /N) | Yes |
| Monitoring Wells OK? (Y/N) | - | Samples Collected (Y/N) | _ | Yes |
| <u> </u> | | . , | | |
| Notes: | | | | |
| Sampled: RW-1 - 630 | | | | |
| RW-2 - 635 | | | | |
| EFF 46 Hz - 640 | | | | |
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APPENDIX B

Site Photolog





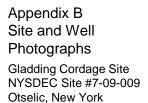


TW-1



TW-2 (Shallow, Intermediate, Deep)





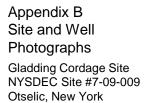


TW-3 (Shallow, Intermediate, Deep)



TW-4 Intermediate





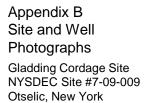


TW-5 (Shallow, Intermediate, Deep)



TW-6 (Shallow, Intermediate, Deep)







TW-7 (Shallow, Intermediate, Deep)



TW-9 (Intermediate)





Appendix B Site and Well Photographs Gladding Cordage Site NYSDEC Site #7-09-009 Otselic, New York



TW-9 (Deep)



TW-10 (Deep)





Appendix B Site and Well **Photographs** Gladding Cordage Site NYSDEC Site #7-09-009 Otselic, New York



TW-12 (Intermediate, Deep)



TW-14 (Shallow, Intermediate, Deep)





Appendix B Site and Well **Photographs** Gladding Cordage Site NYSDEC Site #7-09-009 Otselic, New York



Treatment Building



Effluent Outfall to Otselic River

APPENDIX C

IC/EC Certification Form



Enclosure 1 Engineering Controls - Standby Consultant/Contractor Certification Form



| Si | te No. 709009 | Site Details | | Box 1 |
|----------|--|---|------------------|-------|
| Si | te Name Gladding Corpor | ration | | |
| Ci | te Address: P.O. Box 164 ty/Town: South Otselic ounty: Chenango te Acreage: 7.0 | Zip Code: 13155 | | |
| Re | eporting Period: April 15, 20 | 114 to April 15, 2017 | | |
| | | | YES | NO |
| 1. | Is the information above o | orrect? | X | |
| | If NO, include handwritten | above or on a separate sheet. | | |
| 2. | | me or all of the site property been sold, subdivided, ax map amendment during this Reporting Period? | | X |
| 3. | To your knowledge has the Reporting Period (see 6N' | ere been any change of use at the site during this YCRR 375-1.11(d))? | | X |
| 4. | | ny federal, state, and/or local permits (e.g., building, r or at the property during this Reporting Period? | | X |
| | If you answered YES to that documentation has | questions 2 thru 4, include documentation or evidence been previously submitted with this certification form | E | |
| 5. | To your knowledge is the | site currently undergoing development? | | X |
| | | | | Box 2 |
| | | | YES | NO |
| 6. | | sistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial | X | |
| 7. | Are all ICs/ECs in place a | nd functioning as designed? | X | |
| IF DE | THE ANSWER TO EITHER (EC PM regarding the develo | QUESTION 6 OR 7 IS NO, sign and date below and contac pment of a Corrective Measures Work Plan to address th | t the ese iss | ues. |
| <u></u> | anature of Standby Consultan | t/Contractor Date | | |

SITE NO. 709009

Box 3

Description of Institutional Controls

Parcel

<u>Owner</u>

65.-1-16.1

D.H. Christakos

Institutional Control

Site Management Plan

Monitoring Plan O&M Plan

ICs at the site include Site management plan

Box 4

Description of Engineering Controls

Parcel

Engineering Control

65.-1-16.1

Groundwater Treatment System

Engineering controls include a groundwater extraction and treatment system and monitoring well network.

| the party making the certification, including data and material prepared by previous or the current certifying period, if any; t of my knowledge and belief, the work and conclusions described in this certification ance with the requirements of the site remedial program, and generally accepted practices; and the information presented is accurate and compete. YES NO X CFEC Plan (or equivalent as required in the Decision Document), for each Institutional and Institutional Insti | | | | | |
|--|----|---|---|--------------|------------------------|
| tic Review report and all attachments were prepared under the direction of, and the party making the certification, including data and material prepared by previous or the current certifying period, if any; It of my knowledge and belief, the work and conclusions described in this certification ance with the requirements of the site remedial program, and generally accepted practices; and the information presented is accurate and compete. YES NO X CFEC Plan (or equivalent as required in the Decision Document), for each Institutional and Institutional Control and Institutional Control and Institutional and Institutional and Institutional and Institutional and Institutional and Institutional Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and lent; as occurred that would constitute a failure to comply with the Site Management Plan, and Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the development of a Corrective Measures Work Plan to address these issues. | | Periodic Review Report (PRR) Certification | Statements | | |
| the party making the certification, including data and material prepared by previous or the current certifying period, if any; It of my knowledge and belief, the work and conclusions described in this certification ance with the requirements of the site remedial program, and generally accepted practices; and the information presented is accurate and compete. YES NO X In the CPIan (or equivalent as required in the Decision Document), for each Institutional rol listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the sare true: In the Control and/or Engineering Control(s) employed at this site is unchanged since the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan and Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the endevelopment of a Corrective Measures Work Plan to address these issues. | | I certify by checking "YES" below that: | | | |
| ance with the requirements of the site remedial program, and generally accepted practices; and the information presented is accurate and compete. YES NO X PEC Plan (or equivalent as required in the Decision Document), for each Institutional rol listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the sare true: Attional Control and/or Engineering Control(s) employed at this site is unchanged since the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan, no Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | a) the Periodic Review report and all attachments reviewed by, the party making the certification, inc contractors for the current certifying period, if any; | were prepared under the direction luding data and material prepared | n of I by | f, and previous |
| YES NO X C/EC Plan (or equivalent as required in the Decision Document), for each Institutional rol listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the sare true: Itional Control and/or Engineering Control(s) employed at this site is unchanged since the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan to Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the development of a Corrective Measures Work Plan to address these issues. | | are in accordance with the requirements of the site | remedial program, and generally | nis c | ertificatior cepted |
| A/EC Plan (or equivalent as required in the Decision Document), for each Institutional crol listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the sare true: Intional Control and/or Engineering Control(s) employed at this site is unchanged since the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan to Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the edvelopment of a Corrective Measures Work Plan to address these issues. | | 100 | [1], 이 사이 어떤 사용에 되어 있어야 하면 하는 사람이 보고 있다. 그리고 있어야 한 사람이 다른 것이다. 이 것 같다. | ES | NO |
| rol listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the s are true: utional Control and/or Engineering Control(s) employed at this site is unchanged since the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan no Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | | X | | |
| the Control was put in-place, or was last approved by the Department; as occurred that would impair the ability of such Control, to protect public health and ent; as occurred that would constitute a failure to comply with the Site Management Plan, no Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | If this site has an IC/EC Plan (or equivalent as required i or Engineering control listed in Boxes 3 and/or 4, I certify following statements are true: | n the Decision Document), for ear by checking "YES" below that al | ch li of | nstitutiona the |
| ent; as occurred that would constitute a failure to comply with the Site Management Plan no Site Management Plan exists. YES NO X QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | (a) the Institutional Control and/or Engineering Co the date that the Control was put in-place, or was I | ntrol(s) employed at this site is ur ast approved by the Department; | ncha | anged sind |
| YES NO X QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | (b) nothing has occurred that would impair the abit the environment; | lity of such Control, to protect put | olic I | health and |
| QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | (c) nothing has occurred that would constitute a fa equivalent if no Site Management Plan exists. | ailure to comply with the Site Man | age | ment Plan |
| QUESTION 2 IS NO, sign and date below and contact the e development of a Corrective Measures Work Plan to address these issues. | | | YE | S | NO |
| e development of a Corrective Measures Work Plan to address these issues. | | | X | | |
| e development of a Corrective Measures Work Plan to address these issues. | IF | THE ANSWER TO QUESTION 2 IS NO, sign and date be | low and contact the | | |
| Consultant/Contractor Date | DI | EC PM regarding the development of a Corrective Meas | ures Work Plan to address these | iss | ues. |
| Consultant/Contractor Date | | | | | |
| | Si | gnature of Standby Consultant/Contractor | Date | - | |
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IC/EC CERTIFICATIONS

Professional Engineer Signature

I certify that all information in Boxes 2 through 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.

print name

855 Rouns 146

Chron Park NY 12065

(print business address)

am certifying as a Professional Engineer.

Signature of Professional Engineer

Signature of Professional Engineer



Arcadis CE, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com