Generic FER Template: May 2009

# TNT Red Star Express Site BROOME, NEW YORK

# **Final Engineering Report**

215 Industrial Park Drive
(Formerly known as 97 Industrial Park Drive)
Kirkwood, Broome County, New York
NYSDEC Site Number: 704028

# Prepared for:

YRC Freight
10990 Roe Avenue
Overland Park, Kansas 66211

# Prepared by:

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585-248-2413

**FEBRUARY 2017** 



# **CERTIFICATIONS**

# P.E. Certification of the FER for the TNT Red Star Express Site

I, Dixon Rollins, P.E, am currently a registered professional engineer licensed by the State of New York, I had responsibility for completion of the Final Engineering Report portion of the remedial program activities, and I certify that the Remedial Design/Remedial Action Work Plan (RD/RAWP) was implemented and that the construction activities were completed in substantial conformance with the Department-approved RD/RAWP. The Remedial Engineer that prepared and certified the RD/RAWP, Health and Safety Plan, and QA/QC Plan was Jeffery A. Wittlinger, P.E.

To confirm that the remedy was implemented in accordance with the RD/RAWP, DER-10, and associated applicable regulations, I, Dixon Rollins, P.E, reviewed the RD/RAWP, HASP and QA/QC Plan prepared under the supervision of Jeffery A. Wittlinger, P.E.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed, if any, at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Dixon Rollins, of 271 Marsh Road, Suite 2, Pittsford, New York, am certifying as Responsible Party's Designated Site Representative for the Site.

NYS Professional Engineer # 059206 Date 2/13/17 Signature Win Dillew

Note: include PE stamp



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# FINAL ENGINEERING REPORT

#### 1.0 BACKGROUND AND SITE DESCRIPTION

TNT Red Star Express, Inc. rented a portion of the site property from C&D Terminal Leasing beginning in approximately 1989 to operate a trucking terminal on the site. On January 7, 1991 TNT Red Star reported a spill (NYSDEC Spill No. 9010669) to the New York State Department of Environmental Conservation ("NYSDEC") when a forklift truck accidently pierced several drums of Perchloroethylene ("PCE"), also known as Tetrachloroethene. Approximately 100 gallons of solvent spilled onto the ground surface. TNT Red Star retained the services of Allwash of Syracuse (later known as AAA Environmental) to clean up the spill. The initial spill cleanup involved the removal of approximately 120 tons of asphalt and soil, and the installation and operation of a soil vapor extraction system. A soil gas survey was also conducted along with the installation and sampling of groundwater monitoring wells.

In 1996 NYSDEC identified the Broome County Industrial Development Agency ("BCIDA") as the owner of the property and issued BCIDA a notice listing the property on the Inactive Hazardous Waste Disposal Site registry (Site No. 7-04-028). On July 31, 1998 USF Red Star LLC, the successor to TNT Red Star Express, entered into an Order on Consent (Index #B7-0521-97-09) with the NYSDEC on August 20, 1998 to investigate and remediate a 5.1-acre property located in Town of Kirkwood, Broome County, New York. During the Remedial Investigation the extent of PCE contamination was defined, but the investigation also found that the groundwater was also contaminated with 1,1,1-Trichloroethane ("TCA"). The source of TCA contamination was originating from the oil water separator and migrating toward and beyond the property line. Other than the possible disposal of a waste (from maintenance activities) containing TCA into the oil water separator, the cause of the release was never identified.

On August 10, 2007, YRC Enterprise Services, Inc. on behalf of USF Red Star signed the Order on Consent (Index B7-0521097-09) for the preparation of the site's remedial design ("RD") and implementation of the remedial action ("RA"). Following the RD and RA the property was remediated to restricted commercial and will be continued to be used as a commercial truck terminal and truck repair garage.

The site is located in the Broome County, New York and is identified as Block 2 and Lot 1 on the Kirkwood Tax Map # 162.02-2-1. The site is situated on an approximately 5.1 acre area bounded by Industrial Park Drive to the north and east and private commercial/industrial property to the west and south (see Figure 1). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds.

#### 2.0 SUMMARY OF SITE REMEDY

# 2.1 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

#### 2.1.1 Groundwater RAOs

**RAOs for Public Health Protection** 

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

**RAOs** for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/prerelease conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

# 2.1.2 Soil Vapor RAOs

RAOs for Public Health Protection

- Remove the source of groundwater contamination.
- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

# 2.2 Description of Selected remedy

The site was remediated in accordance with the remedy selected by the NYSDEC in the Record of Decision ("ROD") dated February 2001 and amended in the explanation of significant difference ("ESD"), dated July 19, 2007 (see Appendix B). The Remedial Action Work Plan ("RAWP"), dated January 2008, was amended several times to include the following:

- 1. Decommissioning of the oil/water separator and floor drains found in the garage building, dated January 6, 2015, (see Appendix C).
- 2. The abandonment of the site's monitoring wells, see Figure 2, on November 11 and 12, 2014 (see Appendix D).

The factors considered during the selection of the remedy are those listed in Title 6 New York Codes Rules and Regulations ("NYCRR") Subpart 375-1.8. The following are the components of the selected remedy:

- 1. Preparation of a Remedial Design program to verify the components of the conceptual design.
- 2. Explanation of ESD to not install a groundwater extraction and treatment system.
- 3. Implementation of a treatability study to effectively design the bioremediation system.
- 4. Installation of injection wells around the source areas to introduce nutrients and/or microbes into the groundwater to enhance the biodegradation of the contaminants.
- 5. Implementation of a long-term monitoring program to evaluate the effectiveness of the remedy.
- 6. Periodic certification of the institutional controls listed below.
- 7. Execution and recording of an Environmental Easement ("EE") to restrict land use and prevent future exposure to any contamination remaining at the site;
- 8. Restriction on the use of groundwater;
- 9. Development and implementation of a Site Management Plan ("SMP") for long term management of remaining contamination as required by the EE, which includes Institutional Controls ("IC").

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

#### 3.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

The Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved RAWP for the TNT Red Star Express site January 2008 and amended to include the decommissioning of monitoring wells (November 11 and 12, 2014) and the decommissioning of the oil/water separator and floor drains found in the garage building (January 6, 2015). All deviations from the RAWP are noted below.

# 3.1 Governing Documents

The master document for all remedial work was the RD Work Plan ("RDWP"), dated August 2007 and included the following: Site Specific Health and Safety Plan ("HASP"); Quality Assurance Project Plan; and Groundwater Sampling Procedures. The RDWP was revised in October 2007 and was approved on December 10, 2007. Sections 4.2.2 to 4.2.4 discuss the basis of the remedial design was formulated from data obtained during a bench study and a field pilot study using native bacteria and Regenesis' hydrogen releasing compounds ("HRC"). The bench study confirmed the premise that native bacteria could be used to degrade the PCE and HRC was a suitable material to enhance their activity. The field pilot test was used to refine injection procedures, injection spacing, and our understanding of the dynamics of degradation of the contaminants on site. In January 2008 a RAWP was prepared to implement the remediation. The RAWP was amended several times to conduct additional groundwater sampling (2010), to decommission the site's

oil/water separator (January 6, 2015) and to decommission the site's monitoring wells (November 11 and 12, 2014).

### 3.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this RA was in full compliance with governmental requirements, including Site and worker safety requirements mandated by OSHA. The HASP was prepared for the RD Work Plan and dated August 2007. The plan addressed the drilling of boreholes for the injection of Regenesis' HRC product, collection of soil samples, the mixing of HRC product and the hazards involved with working at an active truck terminal.

The HASP was complied with for all remedial and invasive work performed at the Site.

# 3.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Section 5 of the RD Work Plan approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

# 3.1.3 Community Air Monitoring Plan (CAMP)

The CAMP involved the monitoring of dust, odors, and organic vapors during the injection of the HRC product. Since the activity was relatively non-evasive, involving drilling of paved surfaces and the injection of viscous liquids, there was little potential for dust to be created. No odors or organic vapors were identified during the implementation of the RAWP using a portable organic vapor meter with a photoionization detector ("PID").

# 3.1.4 Community Participation Plan

The Town, County and public were notified through Fact Sheets (1998, 2000, 2001, 2006, and 2007) as per the November 1998 Citizen Participation Plan when the ROD and Explanation of Significant Difference (see Appendix B) were prepared, but based on the lack of feedback from the general public, no additional community participation activities were conducted. The Town of Kirkwood was a document repository for the TNT Red Star Express site. The Town and County were notified on a periodic basis by the NYSDEC Project Manager.

#### 3.1.5 P.E. Certification

Jeffery A. Wittlinger, P.E. was the Remedial Engineer that prepared and certified the RD/RAWP, HASP, and QA/QC Plan and oversaw the implementation of the RAWP, which included HRC injections and subsequent groundwater monitoring.

Dixon Rollins, P.E. was retained by Leader as the Remedial Engineer for the site in April 2014. Mr. Rollins provided engineer's supervision of the FER and related documents, drawings, reports and analytical data for the remedial work that was performed under Jeffery A. Wittlinger's, P.E. oversight in accordance with the NYSDEC- approved RD/RAWP.

# 3.2 Remedial Program Elements

#### 3.2.1 Contractors and Consultants

- Leader Professional Services, Inc. Engineer of Record responsible for inspection of the site characterization and the implementation of the RAWP:
  - o Jeffrey Wittlinger, PE
- Leader Professional Services, Inc., Engineer of Record responsible for overseeing the preparation of the SMP and FER:
  - o Dixon Rollins, PE
- TREC Environmental: implementation of the RAWP, decommissioning of the site monitoring wells and the decommissioning of the oil/water separator.
- Environmental Sciences Corporation conducted the laboratory analysis of soil and groundwater samples.
- Microseeps Corporation conducted the laboratory analysis of groundwater samples for dissolved gases including: Methane, Ethene, and Ethane.
- Environmental Sciences Corporation conducted the laboratory analysis of groundwater samples for volatile organic compounds ("VOCs").

# 3.2.2 HRC Injections

The remediation of the site occurred in several phases: during the pilot study when HRC was injected in the original spill area and in the vicinity of the oil/water separator (2006) and a broad application of HRC in two locations in 2008 in the oil/water separator area and along a section of the southern the property line, see Figures 3, 4 and 5.

The injections completed during the Pilot Study proved to remediate the original PCE source area near monitoring well MW-3, to a point where further injections were not necessary. For the 2008 phase, two treatment zones were identified for broad treatment using HRC: Area A, the oil/water separator area covering an area of approximately 100 square feet and Area B, a short section along the southern property line (see Figure 4) which was done to address contaminated groundwater about to leave the property. Area B covered an area of approximately 3,300 square feet. Following the injections of HRC, monthly and quarterly monitoring was completed to track the performance of the remediation.

# 3.2.2.1 Bench Test Study for Regenesis Hydrogen Releasing Compound ("HRC")

The Bench Test Study was in a laboratory setting for a 4-week test period. The laboratory studied a saturated soil sample (12-16 ft. deep) from the PCE source area (MW-3) using 10.0 grams of soil, 1.5 grams of Hydrogen Release Compound (HRC), 15.0 ppm of PCE and distilled water. The lab looked for reductive de-chlorination rates: Anaerobic conditions, Lactic Acid, Acetic Acid, Pyruvic Acid and total bacteria counts. The Bench Test Study Results found rapid complete removal of PCE with no daughter products.

# 3.2.2.2 HRC Pilot Study September 25, 2006

Regenesis Hydrogen Release Compound (HRC) was applied to the two source areas of the site on September 25, 2006. A total of 1,680 pounds of HRC was used and was injected in the two source areas; the PCE Source Area and the 1,1,1-TCA Source Area. The PCE Source Area was completely remediated and did not require any additional HRC injections. There was a noticeable, but limited, reduction in the concentration of 1,1,1-TCA in the source area (PW-4) requiring additional HRC injections. See Figure 5 showing the 2006 HRC Pilot Study Injection Area.

# 3.2.2.3 In-situ Bioremediation March 18, 2008

HRC-Advanced was applied along the south property line on March 18, 2008 to Treatment Area A and Treatment Area B. Treatment Area A was centered on the former oil/separator (1,1,1-TCA source) in the vicinity of monitoring well PW-4. Treatment Area B was located along the southernmost property line between monitoring well GP-2 and MW-4. See Figure 4: Map showing the 2008 Advanced HRC Injection Area.

# 3.2.2.4 Reporting

Reporting for the project included quarterly sampling reports and monthly progress reports. All of the field activities were conducted over 2 to 3-day periods therefore daily reports were not prepared.

All monthly reports have been submitted to NYSDEC electronically starting with the first monthly report submitted in August 2007 and most recently November 2015, report 99. All monthly reports are on file at NYSDEC. A chronological summary of agency approvals required by the RAWP is included in Appendix E.

#### 3.2.4 Soil Vapor Intrusion Investigation

As one of the NYSDEC Soil Vapor Intrusion (SVI) Investigation Legacy Sites, an on-site and off-site SVI investigation was conducted from 2006 to 2008.

The March 2006 Soil Vapor and Indoor Air Sampling Work Plan, including the three subsequent Work Plan Addendums have been completed. This Legacy Site was closed out June 12, 2008 based on a NYSDOH June 12, 2008 email to NYSDEC.

The 2006-2007 Soil Vapor and Sub-Slab/Indoor Air Sampling Program investigated the Site including the Terminal Loading Dock/Offices, the Garage Building and the adjacent off-site Harris Assembly Group Property (see Figures 6 and 7). Only 1,1,1-TCA was found at a level of concern and only in the sub-slab of the Garage Building on January 23, 2007. Prior to the January 23, 2007 sub-slab sampling event at the DeCarolis Garage, an inventory of the facility included Zep Brake Parts Cleaner (see Appendix F). The Zep Brake Parks Cleaner is an aerosol brake parts and parts degreaser containing trichloroethylene and PCE. No further investigation is required at this time, but if the current use of the site changes in the future, an evaluation for potential soil vapor intrusion will be required.

Monitoring actions associated with soil vapor intrusion were undertaken in accordance with the NYSDOH guidance document, Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Soil vapor monitoring, as set forth in the October 2006 NYSDOH guidance document, was conducted to confirm there are no exposures related to soil vapor intrusion. See Table 1 "Chronology of Soil Vapor Intrusion Investigations."

#### 3.3 Contaminated Materials Removal

The site investigation and remediation were conducted under two different consent orders; August 20, 1998 for the RI/FS and August 10, 2007 for the RD/RA. The site remediation involve the treatment of the groundwater and decommissioning of the oil/water separator. Prior to the issuance of the consent order listing the site on the Inactive Hazardous Waste Disposal Site list, TNT Red Star completed a soil removal of the original spill area and the installation of four monitoring wells and operation of a soil vapor extraction system. During the spill removal approximately 120 tons of solvent contaminated asphalt and soil were excavated, and the material disposed in a permitted landfill. Appendix G provides waste disposal documentation records for the project. The soil vapor extraction system was installed in 1991 and ran the system from January 1991 to November 1991.

# 3.3.1 Oil/Water Separator

The oil/water separator was decommissioned on January 6, 2015 as a part of the remediation of the site to remove any potential source(s) of contamination as described in the 2001 Record of Decision. The decommissioning included: pumping the water and sludge from the separator, flushing inlet pipes from the garage, rinsing the separator tank, and then sealing the drains and separator tank with concrete. During the site characterization activities in November 1999, no soil contamination above soil cleanup objectives outside of the oil/water separator or in the storm water swale along the site boundary was found. A copy of the oil/water separator decommissioning report was provided to NYSDEC on February 10, 2015 and was approved on April 3, 2015 (see Appendix C, Decommissioning of the Oil/Water Separator Report).

# 3.3.1.1 Disposal Details

The decommissioning of the oil/water separator was completed on January 6, 2015 by Trec Environmental and Safety Kleen. Prior to decommissioning of the oil water separator, Leader and Safety Kleen both sampled the waste. Leader collected a sample of the liquid waste and the sludge at the bottom of the separator tank. The sample results obtained by both Leader and Safety Kleen are provided in Appendix C.

Approximately 100 gallons of waste liquid and sludge were removed and transported by Safety Kleen to Clean Harbors of Baltimore, Maryland as a F002 (chlorinated solvent degreaser waste) and D008 (lead toxic) hazardous waste where it was treated. Documentation from the treatment facility are provided in Appendix C.

#### 3.3.2 Removal of Drummed Waste

Five drum of assorted waste material including soil, gravel, asphalt, and vehicle batteries were found on the site property. The Town of Kirkwood contacted Leader to have the drums removed, because their presence and it was suspected that the drums were generated

from on-site remedial activities. The drum was sampled and characterized for disposal purposes. The analysis of the soil, gravel and asphalt was characterized the waste as non-hazardous, while the batteries were given to DeCarolis Truck Rental Company (a tenant on the site) to be recycled along with their own batteries. The soil, gravel, asphalt and cut up drums were disposed of by B&E Disposal Services at the Broome County Landfill on November 11, 2007. The report regarding the drummed waste disposal was approved on November 30, 2007 by NYSDEC, see Appendix H.

# 3.4 Remedial Performance/Documentation Sampling

### 3.4.1 Long Term Groundwater Monitoring

On element of the remedy in the February 2001 Record of Decision included a long-term groundwater monitoring program to evaluate the effectiveness of the bioremediation injections and confirm the concentrations of contaminants in the plume are declining satisfactorily. The reduction of volatile organic compounds ("VOCs") in the groundwater between October 29, 1999 and May 14, 2014 are shown in Table 2.

Table 3 summarizes the last groundwater monitoring sampling conducted for the site on May 14, 2014. Figures 2 and 8 presents the locations of the monitoring wells and summarizes the sampling results. All results with concentrations exceeding reporting limit of the laboratory are shown on Table 3 with the Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations ("TOGS") for each compound.

Performance monitoring of the remediation was conducted by sampling the site monitoring wells on a monthly basis immediately following implementation of the RAWP. The monthly sampling transitioned into quarterly sampling after the first month of sampling. Each sample was analyzed for USEPA's Target Compound List ("TCL") VOCs and the following dissolved gases: Methane, Ethene and Ethane. See Appendix I: Graphs showing the trend lines of Declining VOC Concentrations. In addition to the laboratory analysis, field analyses were completed using a monitoring device and a flow through cell. Sample collection was completed using a low flow pump and technique, with the exception of the samples collected from monitoring wells PW-1, PW-7 and PW-9, where the monitoring wells frequently ran out of water. These conditions necessitated the use of a dedicated disposable bailer for the collection of samples from each monitoring well.

A Data Usability Summary Report ("DUSRs") were prepared as a part of each of the quarterly sampling reports completed during the remedial performance program. Quarterly reports and raw laboratory data for the performance monitoring have been provided electronically to NYSDEC as each event was completed and therefore not included with the FER. The May 14, 2014 groundwater sampling data was submitted to the EQUIS database for the site on March 18, 2015. This analysis included sampling of nine monitoring wells for TCL VOCs.

# 3.5 Contamination Remaining at the site

A portion of the groundwater found below the site has not been completely remediated to TOGS standards. The contamination present consists of PCE, 1,1,1-TCA and daughter products, see Table 3. Groundwater below the site is at a depth greater than 6 feet below the ground surface. Groundwater remaining in excess of TOGS will be found from monitoring well MW-5 south to monitoring wells PW-4, GP-2, MW-4, PW-1, PW-7 and PW-9. In general, the total VOC contaminant concentrations found during the last sampling event in 2014 ranged from 0 (not detected) in monitoring wells MW-3, MW-3D and MW-2, to 28.0 micrograms per liter in monitoring well MW-5, see Table 3. It is not anticipated that any utility service lines are located below the water table. Underground utilities are found crossing the contaminated plume between the terminal building and the garage building. Figure 8 summarizes of the groundwater quality at the completion of the groundwater monitoring period.

Since contaminated groundwater/soil vapor remains beneath the site after completion of the Remedial Action, ICs are required to protect human health and the environment. The ICs are described in the following sections. Long-term management of these ICs and residual contamination will be performed under the SMP approved by the NYSDEC.

#### 3.6 Institutional Controls

The site remedy requires that an environmental easement be placed on the property to limit the use and development of the site to commercial/industrial uses only.

The environmental easement for the site was executed by the Department on January 6, 2017, and filed with the Broome County Clerk on January 19, 2017. The County Recording Identifier number for this filing is #201700001207 (Book 2514 of Deeds at Page 179). A copy of the easement and proof of filing is provided in Appendix J.

#### 3.6.1 Institutional Controls

#### 3.6.1.1 Environmental Easement

An Environmental Easement has been placed on the property deed, and will allow NYSDEC access to the property and also has recorded the institutional controls on the deed. The Environmental Easement has been filed with the Broome County Clerk's Office.

The institutional controls include:

- 1. Compliance with the approved Site Management Plan (SMP);
- 2. Limit the use and development of the site to the existing zoning uses of commercial/industrial:

- 3. Restricts the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by New York State Department of Health (the Town of Kirkwood already restricts groundwater use in area because Town of Kirkwood water is available);
- 4. Requires an evaluation for the potential for soil vapor intrusion into any new buildings or if the property was to change its use (for example commercial to residential); and
- 5. Requires the owner of the property to complete and submit to NYSDEC a periodic certification that the institutional controls are in place and are in compliance with the approved SMP.

# 3.6.1.2 Approved Site Management Plan

The Environmental Easement requires adherence to the Site Management Plan. The March 2015 Site Management Plan by Leader Professional Services Inc. was approved on April 20, 2015 based on the results of the May 14, 2014 groundwater sampling data, the discontinuance of groundwater monitoring and the decommissioning of the monitoring wells.

#### 3.7 Deviations from the Remedial Action Work Plan

No significant deviations from the RAWP occurred.

# 4.0 DELISTING REQUEST

With the completion and acceptance of the SMP and FER, USF Red Star LLC has met the company's obligations to the State of New York to the satisfaction of the NYSDEC and NYDOH identified in the site's two Consent Orders, the site's ROD and the ESD. All of the following Conditions cited in the referenced documents as requirements have been completed:

- Substantially reducing or eliminating the source of groundwater contamination.
- Install a treatment system to address the contamination centered on monitoring well MW-3 and the oil/water separator adjacent to monitoring well PW-4.
- Conduct a treatability study to effectively design a bio-remediation system (used in groundwater treatment).
- Install injection wells around the two source areas to introduce nutrients and/or microbes to enhance the biodegradation of the contaminants.
- Completion of a Soil Vapor Intrusion Investigation.

- Implementation of a long-term monitoring program to evaluate the effectiveness of the (treatment) and to confirm that natural attenuation is occurring at the leading edge of the plume.
- Decommissioning of the site's oil/water separator.
- Decommissioning of the site's monitoring wells.
- Placement of an environmental easement on the site which would include restrictions on the use of groundwater at the site, restrictions on the use of the site, requirements for notification and testing in the event of a change of use for any portion of the site, and the implementation of the SMP.

Since USF Red Star LLC has met their obligations with the State of New York, USF Red Star is requesting a delisting of the TNT Red Star Express site because the site does not require active site management as supported by the following:

- Institutional controls placed on the use of the site will be recorded on the deed of the property with the Broome County Clerk;
- The restriction on the use of the property is already a part of the Town of Kirkwood zoning, where the property can only be used for industrial purposes.
- The restriction on the use of groundwater is already in place by the Town of Kirkwood zoning where all commercial and industrial properties are required to be connected to municipal potable water supplies;
- The site has no engineering controls requiring management (i.e, fences, passive or active remediation systems);
- The only remaining contamination at the site is groundwater and it is located at a depth that it does not impact surface soil, surface water (there is none on the site) or indoor air, and the contaminant concentrations continue to diminish; therefore, the existing asphalt and concrete pads over the ground surface are at the convenience of the owner and their tenants and not mandatory for the protection of human or environmental health and safety. While the contaminated groundwater continues to attenuate, contaminated soil gas will remain a threat particularly in the maintenance garage area. Consequently, if the use of the garage changes (replaced by another building or the addition of more office space) then additional investigation may be warranted to evaluate potential impacts from soil vapor intrusion.

# Table 1 TNT Red Star Express Chronology of Soil Vapor Intrusion Investigations

#### 1999

Sub-slab screening in DeCarolis Garage, November 9, 1999 (PID)

#### 2006

Sub-slab Overnight Transportation Office March 26, 2006
Sub-slab Herlihy Trucking Office March 26, 2006
TNT Soil Vapor Sampling March 28, 2006
Indoor Ambient Air Terminal Warehouse March 28, 2006
Ambient Air outside on-site March 28, 2006
Indoor Ambient Air Herlihy Trucking Office March 28, 2006
Indoor Ambient Air Overnight Transportation Office March 28, 2006
Sub-surface Soil Vapor Sampling Harris Manufacturing September 27, 2006

# First of Three Rounds of Sampling

Ambient Air outside on-site November 29, 2006 Indoor Ambient Air Herlihy Airborne Express Office November 29, 2006 Indoor Ambient Air Overnight Transportation Office November 29, 2006

#### 2007

Off-Site Harris Manufacturing Indoor Air Office, January 23, 2007 Off-Site Harris Manufacturing Indoor Air Manufacturing, January 23, 2007 Off-Site Harris Manufacturing Sub-Slab Office, January 23, 2007 Off-Site Harris Manufacturing Sub-slab Manufacturing, January 23, 2007 Indoor Air in DeCarlois Garage Office, January 23, 2007 Indoor Air in DeCarlois Garage Service Area, January 23, 2007

# **Second of Three Rounds**

Ambient Air outside on-site March 28, 2007 Indoor Ambient Air Herlihy Airborne Express Office March 28, 2007 Indoor Ambient Air Overnight Transportation Office March 28, 2007

#### 2008

#### **Third and Final Round**

Indoor Ambient Air for DeCarlois Garage January 28, 2008 Sub-Slab Soil Vapor for DeCarols Garage January 28, 2008 Indoor Ambient Air Herlihy Airborne Express Office March 18, 2008 Indoor Ambient Air Overnight Transportation Office March 18, 2008

Parameters	Units\Monitoring Well ID	PW-1	PW-1	PW-1	PW-1	PW-1	PW-1
		29-Oct-99	31-Mar-05	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08
Depth to Water	Feet	10.65	13.00	9.10	13.38	11.00	10.95
Ground Surface Elevation	Feet above mean sea level	857.69	857.69	857.69	857.69	857.69	857.69
Groundwater Elevation	Feet above mean sea level	847.04	844.69	848.59	844.31	846.69	846.74
Temperature	Deg. F	N/A	48.60	48.50	57.30	55.04	68.36
Conductivity	Milli Siemens	N/A	0.74	1.08	1.15	1.39	1.49
Dissolved Oxygen	mg/L	N/A	8.15	2.75	2.24	2.90	7.80
Hq	ŠÚ	N/A	6.23	6.19	6.22	4.60	6.50
ORP	Millivolts	N/A	129.00	124.00	136.00	113.00	157.00
Methane	ug/L	N/A	3.0	0.39	0.48	0.46	0.24
Ethane	ug/L	N/A	< 0.005	< 0.025	< 0.025	< 0.025	< 0.025
Ethene	ug/L	N/A	0.35	<0.025	< 0.025	<0.025	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND
sec-Butvlbenzene	ug/L	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	0.93	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND
Toluene	ug/L	ND	N/A	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	N/A	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	ug/L	ND ND	ND	ND	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	N/A	NA NA	ND	ND	ND	ND
1.1.1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Tetrachloroethylene	ug/L	4.0	7.1	10.0	8.3	7.6	9.4
Vinvl Chloride	ug/L	ND	ND	ND	ND	ND	ND

8-Jun-10 10.54 857.69 847.15 59.00 1.30 NS	27-Jun-12 10.80 857.69 846.89	<b>14-May-14</b> 10.40
857.69 847.15 59.00 1.30	857.69	10.40
847.15 59.00 1.30		10.40
59.00 1.30	846.80	857.69
1.30		847.29
	64.04	64.04
NC	0.96	NS
I NS	NS	NS
6.30	6.60	NS
100.00	192.00	NS
0.12	NS	NS
<0.025	NS	NS
0.034	NS	NS
ND	ND	ND
ND	ND ND	ND
ND ND	ND ND	ND
ND	ND ND	ND
ND ND	ND ND	ND ND
ND ND	ND ND	ND
ND ND	ND ND	ND ND
		ND ND
		ND
		ND
		5.4
ND	ND	ND
	ND ND ND ND ND 9.2 ND	ND   ND   ND   ND   ND   ND   ND   ND

Parameters	Units\Monitoring Well ID	PW-3	PW-3	PW-3	PW-3	PW-3	PW-3	PW-3
		29-Oct-99	5-Apr-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08	25-Mar-09
Depth to Water	Feet	7.10	7.05	9.03	8.95	8.90	8.56	8.70
Ground Surface Elevation	Feet above mean sea level	855.06	855.06	855.06	855.06	855.06	855.06	855.06
Groundwater Elevation	Feet above mean sea level	847.96	848.01	846.03	846.11	846.11	846.11	846.36
Temperature	Deg. F	N/A	48.70	56.80	53.96	61.70	53.40	48.20
Conductivity	Milli Siemens	N/A	0.90	1.10	1.30	1.42	1.37	1.40
Dissolved Oxygen	mg/L	N/A	7.20	0.00	1.28	3.50	NS	NS
рН	SU	N/A	6.90	6.07	6.00	5.76	6.30	7.20
ORP	Millivolts	N/A	110.00	146.00	156.00	125.00	225.00	31.00
Methane	ug/L	N/A	N/A	1.1	0.47	1.10	0.64	0.74
Ethane	ug/L	N/A	N/A	< 0.025	<0.025	< 0.025	< 0.025	< 0.025
Ethene	ug/L	N/A	N/A	< 0.025	<0.025	< 0.025	0.1	< 0.025
Acetone	ug/L	12.0	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	ND	2.6	3.5	2.3	3.2	4.1	3.1
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-3	PW-3	PW-3	PW-3	PW-3	PW-3
		18-Jun-09	18-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	14-May-14
Depth to Water	Feet	8.70	8.80	8.50	6.45	8.40	8.46
Ground Surface Elevation	Feet above mean sea level	855.06	855.06	855.06	855.06	855.06	855.06
Groundwater Elevation	Feet above mean sea level	846.36	846.26	846.56	848.61	846.66	846.60
Temperature	Deg. F	55.40	60.00	48.50	54.60	55.00	54.60
Conductivity	Milli Siemens	1.27	1.20	1.49	2.40	1.90	1.33
Dissolved Oxygen	mg/L	NS	0.30	0.00	0.00	1.20	0.00
pH	SU	6.20	6.19	6.24	6.09	6.10	6.20
ORP	Millivolts	234.00	154.70	160.00	139.00	121.00	16.60
Methane	ug/L	0.25	2.30	1.40	5.20	0.790	NS
Ethane	ug/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NS
Ethene	ug/L	0.027	< 0.027	< 0.025	0.037	< 0.025	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND
sec-Butvlbenzene	ug/L	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
1.3.5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	2.2	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	2.7	2.3	3.0	2.7	2.0	1.3
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-4						
		25-Oct-99	27-Sep-05	12-Oct-06	27-Oct-06	29-Nov-06	28-Dec-06	28-Mar-07
Depth to Water	Feet	8.55	10.13	10.11	10.24	10.15	9.90	8.90
Ground Surface Elevation	Feet above mean sea level	857.84	857.84	857.84	857.84	857.84	857.84	857.84
Groundwater Elevation	Feet above mean sea level	849.29	847.71	847.73	847.60	847.69	847.94	848.94
Temperature	Deg. F	67.82	N/A	NA	57.00	56.80	51.80	45.80
Conductivity	Milli Siemens	1.16	N/A	1.74	2.55	1.70	1.67	2.10
Dissolved Oxygen	mg/L	2.76	N/A	NA	0.00	0.10	0.00	0.36
pH	SU	6.35	N/A	4.90	5.13	5.40	5.50	5.70
ORP	Millivolts	-24.00	N/A	-105.00	-112.00	-35.00	-43.00	-31.00
Methane	ug/L	0.1	N/A	N/A	N/A	N/A	960.0	6700.000
Ethane	ug/L	<0.01	N/A	N/A	N/A	N/A	48.0	0.025
Ethene	ug/L	<0.01	N/A	N/A	N/A	N/A	14.0	27.00
Acetone	ug/L	ND	ND	N/A	56.0	2900.0	17.0	550.0
n-Butylbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	5.5
sec-Butylbenzene	ug/L	ND	N/A	N/A	0.9	0.8	1.5	0.9
2-Butanone	ug/L	ND	ND	N/A	33.0	180.0	54.0	180.0
Carbon Disulfide	ug/L	ND	ND	N/A	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	N/A	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	N/A	ND	ND	0.3	ND
p-Isopropyltoluene	ug/L	ND	ND	N/A	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	N/A	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	N/A	2.4	1.6	2.2	2.1
1.2.4-Trimethylbenzene	ug/L	ND	N/A	N/A	1.1	0.36	1.2	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Toluene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	N/A	0.99	ND	ND	ND
1.2.4-Trichlorobenzene	ug/L	ND	N/A	N/A	ND	ND	0.4	ND
MIBK	ug/L	ND	ND	N/A	ND	ND	ND	ND
Chloroform	ug/L	ND						
Methylene Chloride	ug/L	ND	ND	N/A	ND	0.96	1.0	ND
Chloroethane	ug/L	ND	ND	N/A	5.3	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	N/A	ND	ND	ND	ND
1.1-Dichloroethane	ug/L	230.0	55.0	N/A	51.0	21.0	16.0	32.0
1,1-Dichloroethene	ug/L	280.0	ND	N/A	6.6	2.2	1.0	3.2
cis 1,2-Dichloroethene	ug/L	ND	ND	N/A	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	N/A	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	3500.0	320.0	N/A	83.0	25.0	38.0	31.0
Trichloroethene	ug/L	ND	ND	N/A	0.9	0.68	0.7	ND
Tetrachloroethylene	ug/L	ND	ND	N/A	ND	ND	ND	ND
Vinyl Chloride	ug/L	ND						

Parameters	Units\Monitoring Well ID	PW-4	PW-4	PW-4	PW-4	PW-4	PW-4	PW-4
		18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08	25-Mar-09	18-Jun-09	17-Sep-09
Depth to Water	Feet	10.25	10.30	10.15	9.80	10.00	9.80	9.80
Ground Surface Elevation	Feet above mean sea level	857.84	857.84	857.84	857.84	857.84	857.84	857.84
Groundwater Elevation	Feet above mean sea level	847.59	847.54	847.69	848.04	847.84	848.04	848.04
Temperature	Deg. F	57.20	56.60	65.48	55.80	42.90	56.30	63.80
Conductivity	Milli Siemens	1.79	1.45	1.32	1.28	1.10	1.18	1.10
Dissolved Oxygen	mg/L	0.23	0.74	0.50	2.54	5.40	NS	0.37
pH	ŠŬ	6.10	6.08	6.36	6.17	6.40	6.35	6.20
ORP	Millivolts	-165.00	-175.00	-148.00	-98.00	-90.00	-156.00	-49.00
Methane	ua/L	4500.0	2000.0	2000.0	460.0	280.0	460.0	680.0
Ethane	ug/L	0.08	0.04	0.057	< 0.025	< 0.025	< 0.025	0.046
Ethene	ua/L	0.30	0.06	0.086	< 0.035	< 0.035	0.047	0.076
Acetone	ug/L	180.0	ND	ND	ND	ND	9.30	ND
n-Butylbenzene	ug/L	ND	ND	0.38	ND	ND	2.60	0.46
sec-Butylbenzene	ug/L	1.2	ND	1.00	0.74	0.42	0.83	1.1
2-Butanone	ug/L	83.0	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	0.34	ND	ND	ND	ND	0.59
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ua/L	ND	0.44	0.32	0.49	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	1.00	0.69	ND	0.34	1.00	1.0
n-propyllbenzene	ug/L	ND	0.46	0.33	ND	ND	ND	0.35
Naphthalene	ug/L	ND	3.7B	2.50	ND	ND	1.10	1.3
1,2,4-Trimethylbenzene	ug/L	2.1	1.20	1.00	0.64	0.29	0.52	1.1
1,3,5-Trimethylbenzene	ua/L	ND	ND	ND	ND	ND	ND	ND
Toluene	ua/L	ND	ND	ND	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trichlorobenzene	ua/L	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroform	ua/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ua/L	4.3	6.40	9.10	9.90	3.50	3.00	6.0
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane	ug/L	53.0	71.00	64.0	54.0	17.0	35.0	67.0
1.1-Dichloroethene	ug/L	4.4	3.50	3.40	2.60	1.50	3.40	3.60
cis 1.2-Dichloroethene	ua/L	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1.1-Trichloroethane	ua/L	38.0	22.00	8.60	5.60	2.10	12.00	34.0
Trichloroethene	ug/L	ND	0.40	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-4	PW-4	PW-4	PW-4	PW-4	PW-4
		20-Jan-10	1-Apr-10	8-Jun-10	30-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	9.26	8.20	6.75	8.20	10.20	9.60
Ground Surface Elevation	Feet above mean sea level	857.84	857.84	857.84	857.84	857.84	857.84
Groundwater Elevation	Feet above mean sea level	848.58	849.64	851.09	849.64	847.64	848.24
Temperature	Deg. F	44.42	45.50	62.90	45.50	59.36	50.10
Conductivity	Milli Siemens	1.32	1.40	1.20	1.40	1.12	1.20
Dissolved Oxygen	mg/L	0.00	0.00	NS	NS	0.09	1.20
pH	SU	6.29	6.10	6.40	6.10	6.24	6.39
ORP	Millivolts	-38.00	-49.00	-62.00	-49.00	82.00	-4.80
Methane	ug/L	1200.0	1200.0	220.0	NS	NS	NS
Ethane	ug/L	0.040	0.043	<0.025	NS	NS	NS
Ethene	ug/L	0.620	0.044	0.033	NS	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	0.60	ND	ND	ND	ND
sec-Butylbenzene	ug/L	0.62	1.10	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	0.78	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	0.92	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	0.52	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	6.4	10.0	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	21.0	31.0	53.0	81.0	67.0	18.0
1,1-Dichloroethene	ug/L	2.3	2.2	5.1	1.7	2.1	ND
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	2.00
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	ND	3.40	110.00	36.00	30.00	2.30
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	ND	0.52	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-7	PW-7	PW-7	PW-7	PW-7	PW-7
		26-Oct-99	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08
Depth to Water	Feet	14.15	12.45	13.84	13.50	13.42	13.30
Ground Surface Elevation	Feet above mean sea level	860.22	860.22	860.22	860.22	860.22	860.22
Groundwater Elevation	Feet above mean sea level	846.07	847.77	846.38	846.72	846.80	846.92
Temperature	Deg. F	N/A	50.90	54.60	65.30	63.00	55.90
Conductivity	Milli Siemens	N/A	0.98	1.25	0.90	0.90	1.05
Dissolved Oxygen	mg/L	N/A	2.00	2.89	10.00	NS	NS
pH	SU	N/A	6.50	6.08	5.50	6.30	6.20
ORP	Millivolts	N/A	17.00	117.00	50.00	37.00	225.00
Methane	ug/L	N/A	0.540	0.710	1.10	77.00	25.00
Ethane	ug/L	N/A	<0.025	<0.025	<0.025	< 0.025	<0.025
Ethene	ug/L	N/A	29.00	<0.025	0.067	<0.025	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	4.4	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	0.8	ND	0.42	0.98	0.46
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	1.8	1.4
Dichlorodifluoromethane	ug/L	N/A	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	26.0	9.5	2.4	1.5	2.8	2.9
Trichloroethene	ug/L	ND	ND	ND	ND	0.5	0.55
Tetrachloroethylene	ug/L	46.0	29.0	32.0	19.0	37.0	54.0
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-7	PW-7	PW-7	PW-7	PW-7	PW-7	PW-7	PW-7
		25-Mar-09	18-Jun-09	18-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	13.40	13.10	13.33	12.40	11.05	13.00	13.20	12.90
Ground Surface Elevation	Feet above mean sea level	860.22	860.22	860.22	860.22	860.22	860.22	860.22	860.22
Groundwater Elevation	Feet above mean sea level	846.82	847.12	846.89	847.82	849.17	847.22	847.02	847.32
Temperature	Deg. F	46.90	56.60	62.40	NS	51.80	58.10	64.76	NS
Conductivity	Milli Siemens	1.20	1.18	0.50	1.60	1.20	1.30	0.95	NS
Dissolved Oxygen	mg/L	NS	NS	4.20	NS	NS	NS	NS	NS
pH	SU	6.30	6.20	6.50	6.20	7.00	6.40	6.40	NS
ORP	Millivolts	97.00	211.00	134.00	136.00	196.00	78.00	198.00	NS
Methane	ug/L	60.00	5.90	540.00	9.30	4.50	7.30	NS	NS
Ethane	ug/L	<0.025	<0.025	<0.025	<0.025	< 0.025	< 0.025	NS	NS
Ethene	ug/L	<0.025	< 0.025	0.096	< 0.025	< 0.025	<0.025	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	0.5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	0.89	0.71	0.83	0.9	0.68	ND	ND	ND
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	0.76	0.42	2.30	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	10.0	12.0	2.5	9.3	1.6	ND	ND	ND
Trichloroethene	ug/L	0.40	0.40	0.80	ND	0.4	ND	ND	ND
Tetrachloroethylene	ug/L	29.0	41.0	27.0	32.0	28.0	31.0	18.0	14.0
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-9	PW-9	PW-9	PW-9	PW-9	PW-9	PW-9
		29-Oct-99	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08	25-Mar-09
Depth to Water	Feet	16.50	13.75	16.50	16.10	16.05	14.90	16.20
Ground Surface Elevation	Feet above mean sea level	862.18	862.18	862.18	862.18	862.18	862.18	862.18
Groundwater Elevation	Feet above mean sea level	845.68	848.43	845.68	846.08	846.13	847.28	845.98
Temperature	Deg. F	N/A	49.60	59.90	59.18	56.50	53.42	49.80
Conductivity	Milli Siemens	N/A	1.60	2.30	2.50	1.90	2.35	2.30
Dissolved Oxygen	mg/L	N/A	1.50	8.50	10.60	NS	NS	NS
pH	SU	N/A	7.60	6.60	6.50	6.50	6.40	7.00
ORP	Millivolts	N/A	16.00	131.00	161.00	48.00	224.00	60.00
Methane	ug/L	N/A	0.760	NS	0.330	1.200	5.100	6.500
Ethane	ug/L	N/A	< 0.025	NS	<0.025	< 0.025	< 0.025	< 0.025
Ethene	ug/L	N/A	43.0	NS	0.028	0.037	< 0.025	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	0.48
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	1.3	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	32.0	16.0	7.8	8.8	13.0	16.0	11.0
1,1-Dichloroethene	ug/L	1.5	1.1	ND	ND	0.9	1.0	1.0
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	N/A	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	4.2	49.0	11.0	17.0	22.0	40.0	27.0
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	15.0	1.4	1.0	1.4	2.9	3.2	1.4
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	PW-9	PW-9	PW-9	PW-9	PW-9	PW-9	PW-9
		18-Jun-09	18-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	16.00	16.25	15.50	13.90	15.90	16.00	15.62
Ground Surface Elevation	Feet above mean sea level	862.18	862.18	862.18	862.18	862.18	862.18	862.18
Groundwater Elevation	Feet above mean sea level	846.18	845.93	846.68	848.28	846.28	846.18	846.56
Temperature	Deg. F	51.80	58.40	NS	52.70	53.24	60.62	NS
Conductivity	Milli Siemens	2.07	2.00	2.10	1.25	1.30	1.78	NS
Dissolved Oxygen	mg/L	NS	4.00	NS	NS	NS	NS	NS
pH	SU	6.60	6.40	6.20	7.00	6.60	6.70	NS
ORP	Millivolts	297.00	124.00	132.00	196.00	114.00	206.00	NS
Methane	ug/L	95.0	45.0	72.0	240.0	66.0	NS	NS
Ethane	ug/L	< 0.025	0.051	< 0.025	< 0.025	< 0.025	NS	NS
Ethene	ug/L	<0.025	0.066	<0.025	0.044	0.028	NS	NS
Acetone	ug/L	21.0	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	10.0
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trichlorobenzene	ua/L	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane	ug/L	9.8	10.0	10.0	7.8	5.2	3.2	ND
1,1-Dichloroethene	ug/L	3.7	0.79	0.90	0.95	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	0.4	ND	ND	0.5	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	32.0	25.0	20.0	26.0	19.0	6.6	1.7
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	4.1	1.5	1.8	2.4	2.0	ND	ND
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	GP-2	GP-2	GP-2	GP-2	GP-2	GP-2	GP-2
		1-Apr-99	27-Sep-05	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08
Depth to Water	Feet	9.80	8.35	6.65	8.74	8.35	8.14	7.70
Ground Surface Elevation	Feet above mean sea level	855.63	855.63	855.63	855.63	855.63	855.63	855.63
Groundwater Elevation	Feet above mean sea level	845.83	847.28	848.98	846.89	847.28	847.49	847.93
Temperature	Deg. F	N/A	66.20	46.70	57.70	59.00	65.66	56.60
Conductivity	Milli Siemens	N/A	0.96	1.68	1.45	1.33	1.45	1.49
Dissolved Oxygen	mg/L	N/A	2.30	0.00	2.93	0.72	4.20	0.00
pH	SU	N/A	6.07	6.60	6.20	6.50	5.92	6.15
ORP	Millivolts	N/A	210.00	-108.00	-231.00	-102.00	-113.00	-106.00
Methane	ug/L	N/A	NA	790.00	260.00	790.00	5000.00	6600.00
Ethane	ug/L	N/A	NA	36.00	< 0.025	< 0.025	< 0.035	< 0.025
Ethene	ug/L	N/A	NA	120.00	0.04	0.042	0.033	0.038
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	N/A	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	N/A	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	ND	ND	1.9B	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Toluene	ug/L	ND	N/A	ND	ND	ND	ND	0.27
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ua/L	ND	N/A	ND	ND	ND	ND	ND
MIBK	ug/L	ND	N/A	ND	ND	ND	ND	ND
Chloroform	ua/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ua/L	ND	ND	ND	3.4	11.00	4.90	29.00
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane	ug/L	96.0	3.5	150.0	170.0	81.00	110.00	86.00
1,1-Dichloroethene	ug/L	24.0	2.4	5.4	14.0	3.00	1.10	ND
cis 1.2-Dichloroethene	ug/L	ND	ND	6.4	3.9	3.60	6.70	7.10
Dichlorodifluoromethane	ug/L	N/A	1.5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	2200.0	120.0	110.0	660.0	37.00	9.20	5.90
Trichloroethene	ug/L	ND	ND	ND	1.2	1.30	ND	ND
Tetrachloroethylene	ug/L	7.4	26.0	ND	7.2	0.81	0.33	ND
Vinyl Chloride	ug/L	ND	ND	ND.	ND	0.33	0.90	3.30

Parameters	Units\Monitoring Well ID	GP-2	GP-2	GP-2	GP-2	GP-2	GP-2	GP-2	GP-2
		25-Mar-09	18-Jun-09	17-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	7.80	7.85	7.65	7.30	6.00	7.80	8.00	7.55
Ground Surface Elevation	Feet above mean sea level	855.63	855.63	855.63	855.63	855.63	855.63	855.63	855.63
Groundwater Elevation	Feet above mean sea level	847.83	847.78	847.98	848.33	849.63	847.83	847.63	848.08
Temperature	Deg. F	47.66	57.90	63.60	48.38	49.10	57.40	59.54	51.98
Conductivity	Milli Siemens	1.90	1.50	1.26	2.24	1.70	1.66	1.07	1.10
Dissolved Oxygen	mg/L	0.00	6.50	0.27	0.00	0.00	0.33	0.10	0.20
pH	SU	6.40	6.20	6.20	6.18	5.90	6.18	6.10	6.10
ORP	Millivolts	-158.00	-216.00	-84.00	-25.00	108.00	50.00	143.40	50.20
Methane	ug/L	8900.00	9900.00	8500.00	3500.00	1800.00	1300.00	NS	NS
Ethane	ug/L	<0.025	< 0.025	0.028	<0.025	< 0.025	<0.025	NS	NS
Ethene	ug/L	0.053	0.092	0.170	0.190	0.130	0.079	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	1.5	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	42.00	52.00	30.0	7.2	7.0	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	110.00	81.00	50.0	28.0	24.0	12.0	1.4	3.0
1,1-Dichloroethene	ug/L	2.90	2.70	0.98	0.83	1.10	1.00	ND	ND
cis 1,2-Dichloroethene	ug/L	3.60	2.80	5.5	1.4	1.0	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	52.00	20.00	9.40	34.00	42.0	18.0	1.6	16.0
Trichloroethene	ug/L	0.43	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	ND	ND	ND	ND	0.89	1.60	5.10	1.30
Vinyl Chloride	ug/L	2.80	2.60	2.7	0.83	1.50	ND	ND	ND

Parameters	Units\Monitoring Well ID	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		1-Apr-99	31-Mar-05	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08
Depth to Water	Feet	9.40	8.50	8.90	10.62	10.20	10.24	7.85
Ground Surface Elevation	Feet above mean sea level	857.83	857.83	857.83	857.83	857.83	857.83	857.83
Groundwater Elevation	Feet above mean sea level	848.43	849.33	848.93	847.21	847.63	847.59	849.98
Temperature	Deg. F	N/A	49.70	46.76	56.48	53.96	59.18	54.86
Conductivity	Milli Siemens	N/A	1.18	1.00	1.29	1.60	1.60	1.47
Dissolved Oxygen	mg/L	N/A	6.08	5.40	2.90	3.60	6.34	1.23
pH	SU	N/A	6.04	6.80	6.18	6.00	5.80	6.10
ORP	Millivolts	N/A	133.20	6.00	115.00	109.00	123.00	50.00
Methane	ug/L	N/A	< 0.015	2.70	1.50	0.17	0.73	1.40
Ethane	ug/L	N/A	ND	<0.025	< 0.025	< 0.025	< 0.025	< 0.025
Ethene	ug/L	N/A	ND	<0.025	< 0.025	< 0.025	< 0.025	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	N/A	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	N/A	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Toluene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trichlorobenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
MIBK	ug/L	ND	N/A	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	N/A	ND	ND	ND	ND	ND	ND
1.1.1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	8.00	8.89	9.50	4.00	2.50	3.70	4.30
Vinyl Chloride	ug/L	ND	ND	ND.	ND	ND.	ND	ND

Parameters	Units\Monitoring Well ID	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		25-Mar-09	18-Jun-09	17-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	10.10	9.80	9.90	9.20	8.05	9.80	10.00	9.69
Ground Surface Elevation	Feet above mean sea level	857.83	857.83	857.83	857.83	857.83	857.83	857.83	857.83
Groundwater Elevation	Feet above mean sea level	847.73	848.03	847.93	848.63	849.78	848.03	849.33	848.93
Temperature	Deg. F	48.00	55.40	58.10	44.70	49.10	57.00	58.46	53.20
Conductivity	Milli Siemens	1.48	1.44	1.30	1.31	1.50	1.63	1.39	1.40
Dissolved Oxygen	mg/L	1.30	NS	1.60	2.00	1.17	3.75	1.94	3.60
pH	ŠŬ	6.30	6.20	6.10	6.28	6.00	6.20	6.22	6.23
ORP	Millivolts	51.00	58.00	214.00	85.00	161.00	135.00	111.30	38.90
Methane	ug/L	3.30	0.65	0.32	2.10	0.41	<0.10	NS	NS
Ethane	ug/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NS	NS
Ethene	ug/L	<0.025	<0.025	0.028	< 0.025	< 0.025	< 0.025	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-Butvlbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	0.71	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	0.96	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	3.20	3.40	4.8	6.1	6.0	5.8	1.1	ND
Vinyl Chloride	ug/L	ND	ND ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		1-Apr-99	27-Sep-05	12-Oct-06	27-Oct-06	29-Nov-06	28-Dec-06	28-Mar-07
Depth to Water	Feet	8.10	9.23	9.05	8.62	8.78	8.47	7.65
Ground Surface Elevation	Feet above mean sea level	858.40	858.40	858.40	858.40	858.40	858.40	858.40
Groundwater Elevation	Feet above mean sea level	848.93	850.30	849.35	849.78	849.62	849.93	849.17
Temperature	Deg. F	N/A	62.06	N/A	57.38	58.40	55.2	49.46
Conductivity	Milli Siemens	N/A	0.49	0.47	1.87	0.74	0.98	0.42
Dissolved Oxygen	mg/L	N/A	2.24	N/A	0.10	0.60	0	0.30
pH	ŠŪ	N/A	7.22	7.00	7.46	7.32	6.7	7.40
ORP	Millivolts	N/A	-90.00	-98.00	-166.00	-147.00	-130	-104.00
Methane	ug/L	N/A	<0.01	N/A	N/A	N/A	52	15.0
Ethane	ug/L	N/A	<0.01	N/A	N/A	N/A	< 0.025	< 0.025
Ethene	ug/L	N/A	<10	N/A	N/A	N/A	79	< 0.025
Acetone	ug/L	ND	ND	N/A	ND	ND	92.0	ND
n-Butylbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	N/A	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	N/A	0.94	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	N/A	1.00	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	N/A	N/A	2.00	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	N/A	0.56	ND	ND	ND
Toluene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	N/A	2.50	ND	ND	ND
1.2.4-Trichlorobenzene	ug/L	ND	N/A	N/A	ND	ND	ND	ND
MIBK	ug/L	ND	N/A	N/A	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	N/A	ND	0.9	0.9	ND
Chloroethane	ug/L	ND	ND	N/A	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	N/A	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	ND	N/A	ND	ND	0.3	ND
1,1-Dichloroethene	ug/L	ND	ND	N/A	ND	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	ND	ND	N/A	ND	0.71	67.0	36.0
Dichlorodifluoromethane	ug/L	N/A	ND	N/A	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	ND	ND	N/A	ND	0.57	0.6	ND
Trichloroethene	ug/L	ND	ND	N/A	ND	ND	4.0	0.5
Tetrachloroethylene	ug/L	1500.0	49.00	N/A	ND	ND	14.0	1.8
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

Parameters	Units\Monitoring Well ID	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
		18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08	25-Mar-09	18-Jun-09
Depth to Water	Feet	9.73	9.85	9.90	8.48	8.73	NS
Ground Surface Elevation	Feet above mean sea level	858.40	858.40	858.40	858.40	858.40	NS
Groundwater Elevation	Feet above mean sea level	848.67	848.55	848.50	849.92	849.67	NS
Temperature	Deg. F	59.00	56.30	64.76	57.70	49.10	NS
Conductivity	Milli Siemens	0.67	0.37	0.63	0.47	0.49	NS
Dissolved Oxygen	mg/L	0.26	4.50	0.00	0.00	0.00	NS
pH	SU	7.20	6.20	7.60	7.16	7.60	NS
ORP	Millivolts	-62.00	-112.00	-123.00	-102.00	-132.00	NS
Methane	ug/L	8.6	3.7	13.0	59.0	6.4	NS
Ethane	ug/L	< 0.025	< 0.025	<0.025	< 0.025	< 0.025	NS
Ethene	ug/L	<0.025	<0.025	<0.025	< 0.025	< 0.025	NS
Acetone	ug/L	ND	ND	ND	ND	ND	NS
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	NS
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	NS
2-Butanone	ug/L	ND	ND	ND	ND	ND	NS
Carbon Disulfide	ug/L	ND	4.6	0.4	ND	ND	NS
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	NS
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	NS
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	NS
Naphthalene	ug/L	ND	ND	ND	ND	ND	NS
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	NS
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	NS
Toluene	ug/L	ND	ND	ND	ND	ND	NS
Xylenes	ug/L	ND	ND	ND	ND	ND	NS
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	NS
MIBK	ug/L	ND	ND	ND	ND	ND	NS
Chloroform	ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	NS
Chloroethane	ug/L	ND	ND	ND	ND	ND	NS
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	NS
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	NS
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	NS
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	NS
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	NS
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	NS
Trichloroethene	ug/L	ND	ND	ND	ND	ND	NS
Tetrachloroethylene	ug/L	ND	ND	ND	ND	ND	NS
Vinvl Chloride	ug/L	ND	ND	ND	ND	ND	NS

Parameters	Units\Monitoring Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
		1-Apr-99	27-Sep-05	5-Apr-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08
Depth to Water	Feet	7.20	7.65	7.30	8.25	7.62	7.70	7.35
Ground Surface Elevation	Feet above mean sea level	855.10	855.10	855.10	855.10	855.10	855.10	855.10
Groundwater Elevation	Feet above mean sea level	847.90	847.45	847.80	846.85	847.48	847.40	847.75
Temperature	Deg. F	N/A	66.20	46.20	59.10	59.70	63.80	56.60
Conductivity	Milli Siemens	N/A	0.98	1.20	1.26	1.30	1.40	1.41
Dissolved Oxygen	mg/L	N/A	1.93	2.00	11.60	0.78	NS	0.00
pH	SU	N/A	6.26	6.70	5.80	6.40	6.10	6.12
ORP	Millivolts	N/A	3.00	23.00	138.00	-100.00	-104.00	-69.00
Methane	ug/L	N/A	N/A	N/A	0.9	1.8	3600.0	2700.0
Ethane	ug/L	N/A	N/A	N/A	< 0.025	0.026	< 0.025	<0.025
Ethene	ug/L	N/A	N/A	N/A	< 0.025	0.140	0.047	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	N/A	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	N/A	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Toluene	ug/L	ND	N/A	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	N/A	ND	ND	ND	ND	ND
MIBK	ug/L	ND	N/A	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	0.88	ND	0.61
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	ug/L	ND	ND	ND	ND	45.00	28.50	37.00
Dichlorodifluoromethane	ug/L	N/A	1.3	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	12.0	1.9	ND	ND	0.93	ND	0.83
Trichloroethene	ug/L	ND	ND	ND	ND	0.99	2.83	4.10
Tetrachloroethylene	ug/L	98.0	12.0	26.4	37.0	3.50	3.20	3.60
Vinyl Chloride	ug/L	ND	ND	ND	ND	0.96	ND	0.51

Parameters	Units\Monitoring Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
		25-Mar-09	18-Jun-09	17-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	7.70	7.35	7.80	6.95	5.50	7.38	7.40	7.14
Ground Surface Elevation	Feet above mean sea level	855.10	855.10	855.10	855.10	855.10	855.10	855.10	855.10
Groundwater Elevation	Feet above mean sea level	847.40	847.75	847.30	848.15	849.60	847.72	847.70	847.96
Temperature	Deg. F	47.40	58.60	65.10	47.30	46.90	58.00	60.26	52.70
Conductivity	Milli Siemens	1.60	1.56	1.20	1.30	3.10	1.90	1.09	1.63
Dissolved Oxygen	mg/L	0.00	6.30	0.29	0.00	0.08	0.63	0.07	0.00
pH	SU	6.20	6.70	6.10	6.30	5.90	6.20	6.22	6.30
ORP	Millivolts	-84.00	-110.00	12.80	11.00	99.00	-20.00	148.60	66.70
Methane	ug/L	6100.0	960.0	8800.0	4400.0	1100.0	8000.0	NS	NS
Ethane	ug/L	< 0.025	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	NS	NS
Ethene	ug/L	0.047	0.035	0.820	0.076	0.210	1.000	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	0.52	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ua/L	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	1.10	ND	0.93	0.79	0.65	ND	ND	ND
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	16.00	5.00	20.0	7.2	1.8	4.8	1.2	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	2.70	0.98	0.75	ND	0.64	ND	ND	ND
Trichloroethene	ug/L	3.00	1.80	2.8	4.4	0.86	4.60	1.9	1.4
Tetrachloroethylene	ug/L	15.00	15.00	7.6	6.5	14.0	15.0	12.0	9.4
Vinyl Chloride	ug/L	2.60	ND	4.8	1.4	0.58	1.40	ND	ND

Parameters	Units\Monitoring Well ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		27-Sep-05	28-Mar-07	18-Jun-07	18-Jun-08	10-Sep-08	4-Dec-08	25-Mar-09
Depth to Water	Feet	8.71	6.45	9.00	8.55	8.59	8.25	8.70
Ground Surface Elevation	Feet above mean sea level	856.79	856.79	856.79	856.79	856.79	856.79	856.79
Groundwater Elevation	Feet above mean sea level	848.08	850.34	847.79	848.24	848.24	843.19	848.09
Temperature	Deg. F	66.56	47.30	63.68	58.10	66.02	55.40	47.40
Conductivity	Milli Siemens	1.07	1.31	1.10	1.22	1.14	1.24	1.40
Dissolved Oxygen	mg/L	2.92	0.98	0.37	0.17	3.65	0.00	0.34
pH	SU	6.40	6.37	6.30	6.02	5.81	6.15	6.40
ORP	Millivolts	169.00	103.00	118.00	180.00	98.00	84.00	81.00
Methane	ug/L	N/A	24.0	29.0	0.24	1.80	1.80	1.00
Ethane	ug/L	N/A	< 0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.025
Ethene	ug/L	N/A	30.00	<0.025	<0.025	<0.025	< 0.025	< 0.025
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	N/A	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ua/L	N/A	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	N/A	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
Toluene	ug/L	N/A	ND	ND	ND	ND	ND	ND
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	N/A	ND	ND	ND	ND	ND	ND
MIBK	ug/L	N/A	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	ND	1.7	1.5	0.94	0.80	ND	0.73
1,1-Dichloroethene	ug/L	ND	2.1	1.5	1.10	ND	ND	0.83
cis 1,2-Dichloroethene	ug/L	ND	6.1	11.0	3.10	2.70	2.10	1.80
Dichlorodifluoromethane	ug/L	1.0	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	1.1	1.4	ND	0.72	0.70	0.56	0.70
Trichloroethene	ug/L	ND	0.8	1.1	1.60	2.10	1.80	1.20
Tetrachloroethylene	ug/L	93.0	18.0	29.0	34.00	63.00	43.00	29.00
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

### Notes:

Notes:
N/A = not analyzed
NS = Not Sampled
ORP = oxidation-reduction potential
Deg. F = degrees Fahrenheit
mg/L = miligrams per liter
SU = standard units
ug/L = micrograms per liter

Parameters	Units\Monitoring Well ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		18-Jun-09	17-Sep-09	20-Jan-10	1-Apr-10	8-Jun-10	27-Jun-12	14-May-14
Depth to Water	Feet	8.35	8.55	8.75	6.45	8.20	8.20	8.06
Ground Surface Elevation	Feet above mean sea level	856.79	856.79	856.79	856.79	856.79	856.79	856.79
Groundwater Elevation	Feet above mean sea level	848.44	848.24	848.04	850.34	848.59	848.59	848.73
Temperature	Deg. F	58.80	64.50	47.30	52.30	58.30	62.96	53.20
Conductivity	Milli Siemens	1.30	1.02	1.50	1.80	1.88	1.39	1.30
Dissolved Oxygen	mg/L	3.30	0.23	0.90	0.60	2.40	1.94	2.80
pH	SU	6.20	6.10	6.30	6.10	6.20	6.22	6.20
ORP	Millivolts	61.00	199.00	124.00	163.00	116.00	111.30	32.40
Methane	ug/L	5.20	0.74	9.00	0.89	1.20	NS	NS
Ethane	ug/L	< 0.025	<0.025	< 0.025	< 0.025	0.047	NS	NS
Ethene	ug/L	< 0.025	0.11	< 0.025	< 0.025	< 0.025	NS	NS
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/L	ND	0.83	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	ND	ND	ND	ND	ND	ND	ND
n-propyllbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	ND	0.6	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	ND	0.62	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND
Xvlenes	ug/L	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND
MIBK	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	0.3	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	0.66	0.66	0.65	0.77	ND	ND	ND
1,1-Dichloroethene	ug/L	0.81	0.84	0.66	0.98	ND	ND	ND
cis 1.2-Dichloroethene	ug/L	1.20	2.4	0.95	0.65	ND	ND	ND
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/L	0.59	0.82	ND	0.73	ND	ND	ND
Trichloroethene	ug/L	1.30	1.8	1.2	0.84	1.10	ND	ND
Tetrachloroethylene	ug/L	41.00	63.0	54.0	42.0	47.0	40.0	28.0
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND

### Notes:

Notes:
N/A = not analyzed
NS = Not Sampled
ORP = oxidation-reduction potential
Deg. F = degrees Fahrenheit
mg/L = miligrams per liter
SU = standard units
ug/L = micrograms per liter

# TABLE 3 Summary of Monitoring Well Sample Results May 14, 2014 TNT Red Star Express Site Kirkwood, New York

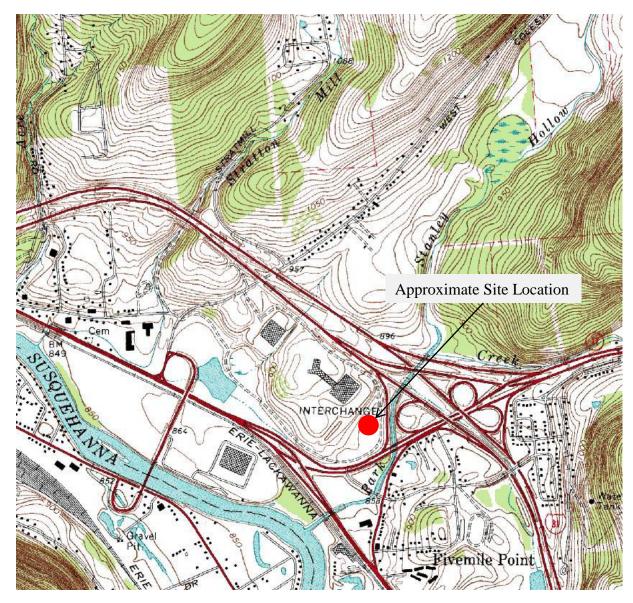
Client Sample ID	Technical and Operational Guidance Series 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations	MW-2	MW-4	MW 5	GP-2	PW-1	PW-3	PW-4	PW-7	PW-9	DUPLICATE MW-5
Parameter											
1,1-Dichloroethane	5	ND	ND	ND	3	ND	ND	18	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
2-Butanone (MEK)	50	ND	10	ND							
Tetrachloroethene	5	ND	9.4	28	1.3	5.4	1.3	ND	14	ND	28
1,1,1-Trichloroethane	5	ND	ND	ND	16	ND	ND	2.3	ND	1.7	ND
Trichloroethene	5	ND	1.4	ND							
Total Volatiles		0	10.8	28	20.3	5.4	1.3	22.3	14	11.7	28

#### Notes:

All concentrations in units of micrograms per liter.

ND = Not detected above analytical reporting limit.





Title:

Project Location Map TNT-Red Star Express Site Kirkwood, NY

Prepared For:

YRC Freight Overland Park, Kansas



Leader Professional Services, Inc 271 Marsh Road-Suite 2 Pittsford, New York 14534 (585) 248-2413 FAX (585) 248-2834 Project

250.016

Date 12/1/2016

Scale

Drawn PV

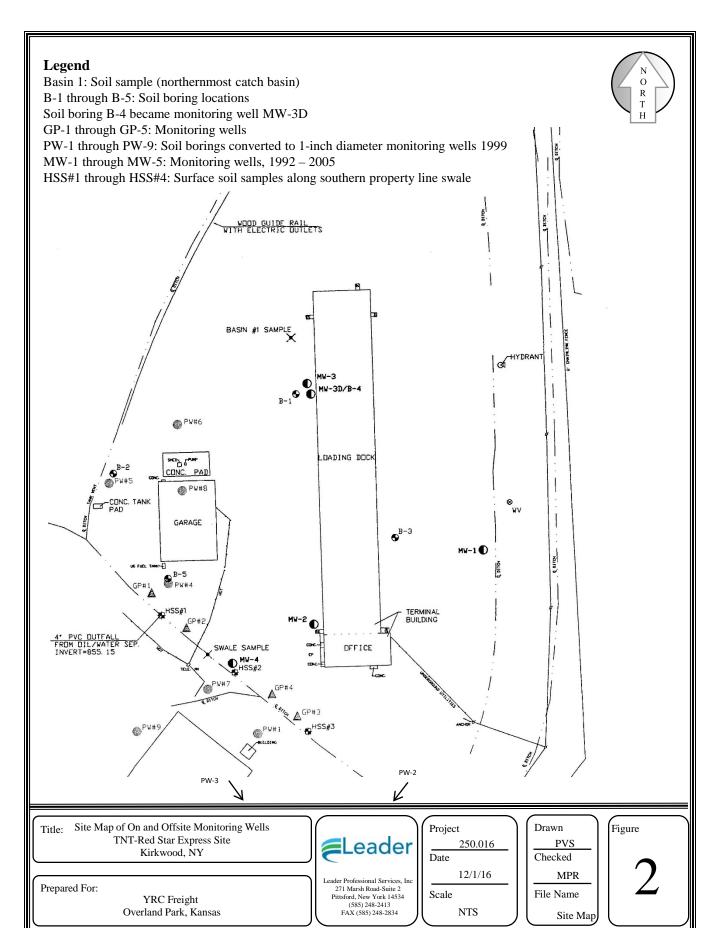
Checked MPR

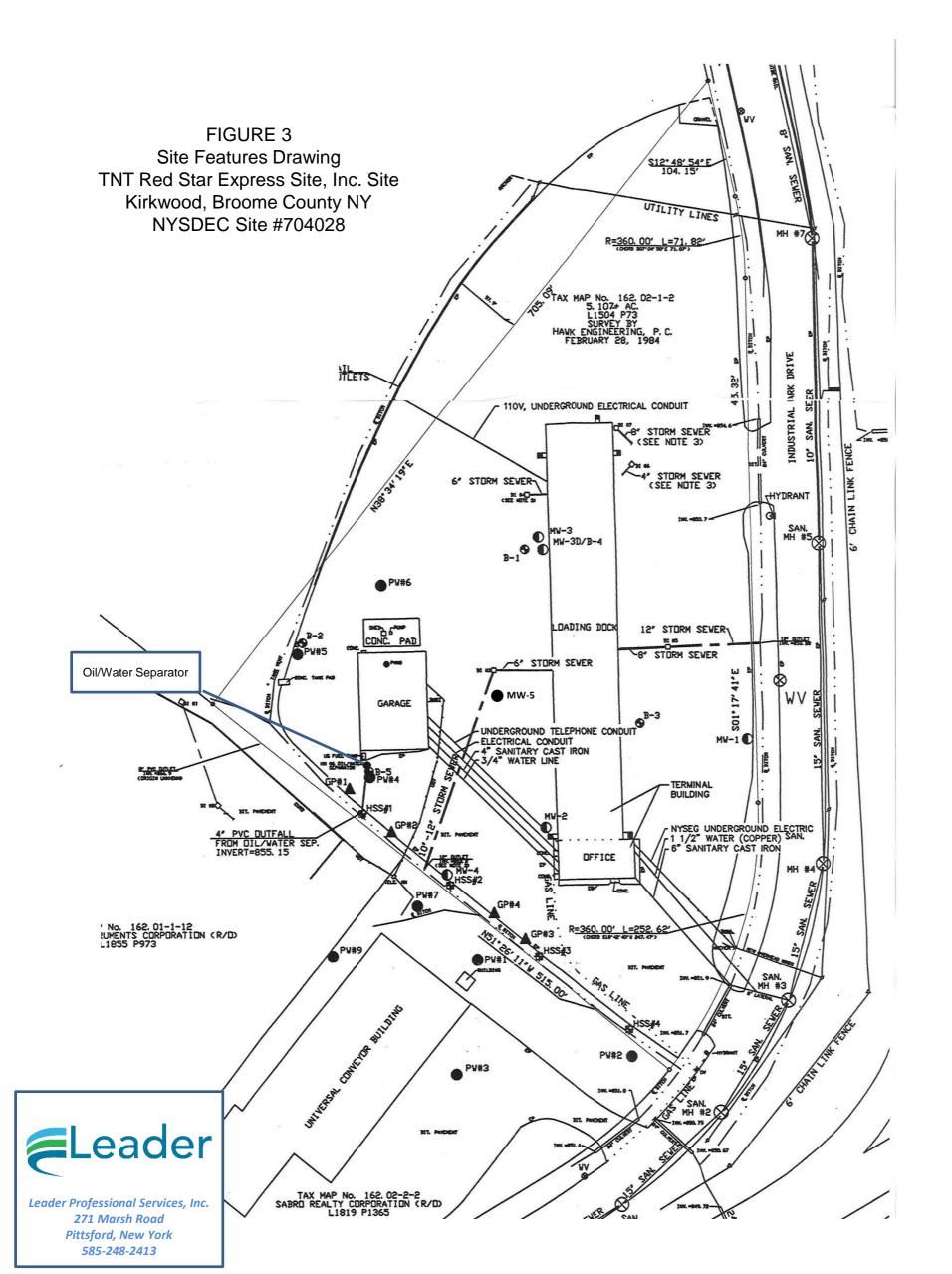
File Name

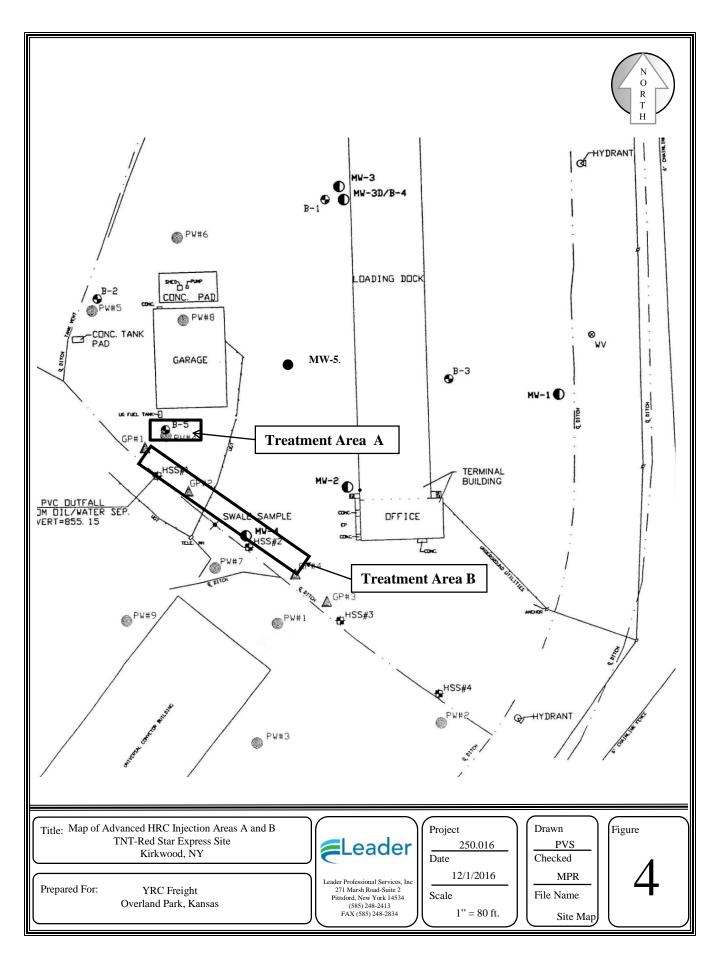
Site Map

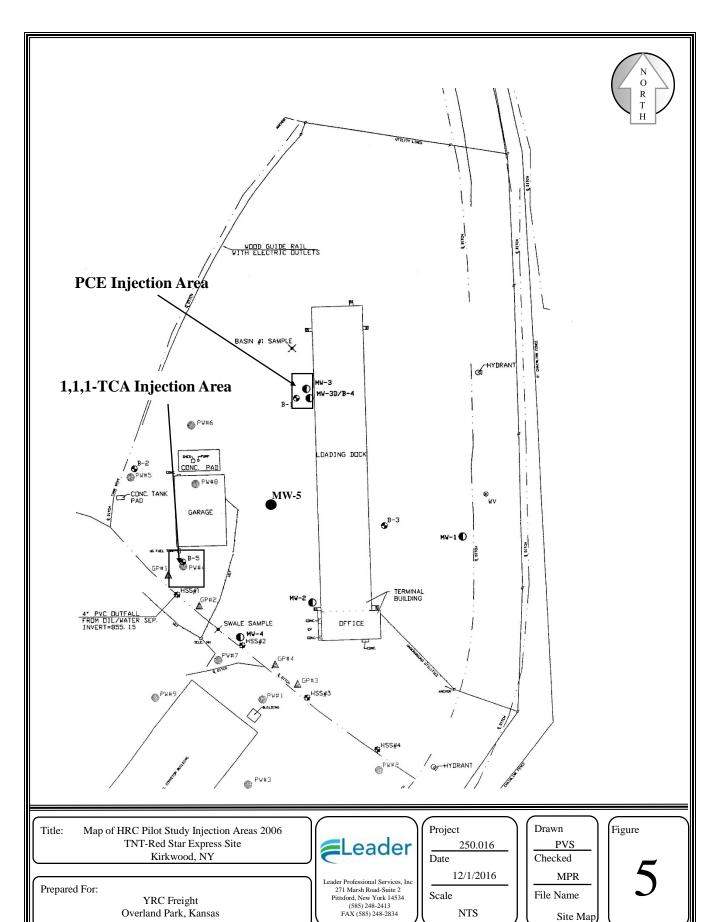
Figure

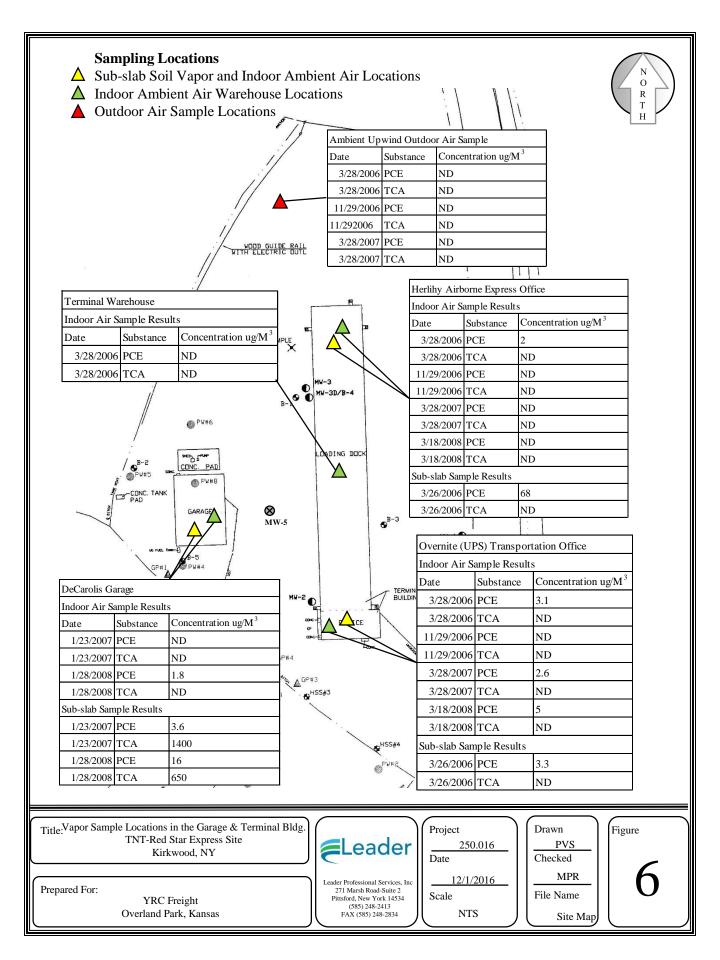
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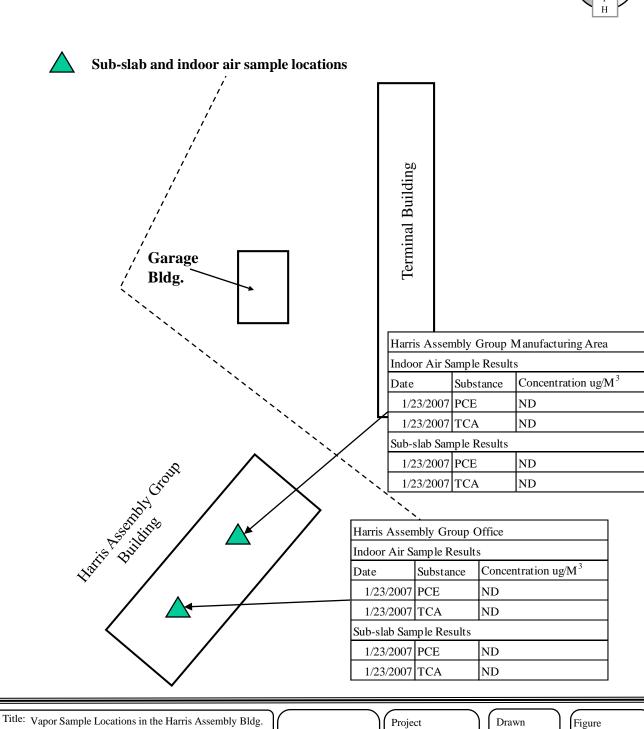












Title: Vapor Sample Locations in the Harris Assembly Bldg.

TNT Red Star Express Site

Kirkwood, NY

Prepared For:

YRC Freight Overland Park, Kansas



Leader Professional Services, Inc 271 Marsh Road-Suite 2 Pittsford, New York 14534 (585) 248-2413 FAX (585) 248-2834 Project

250.016

Date

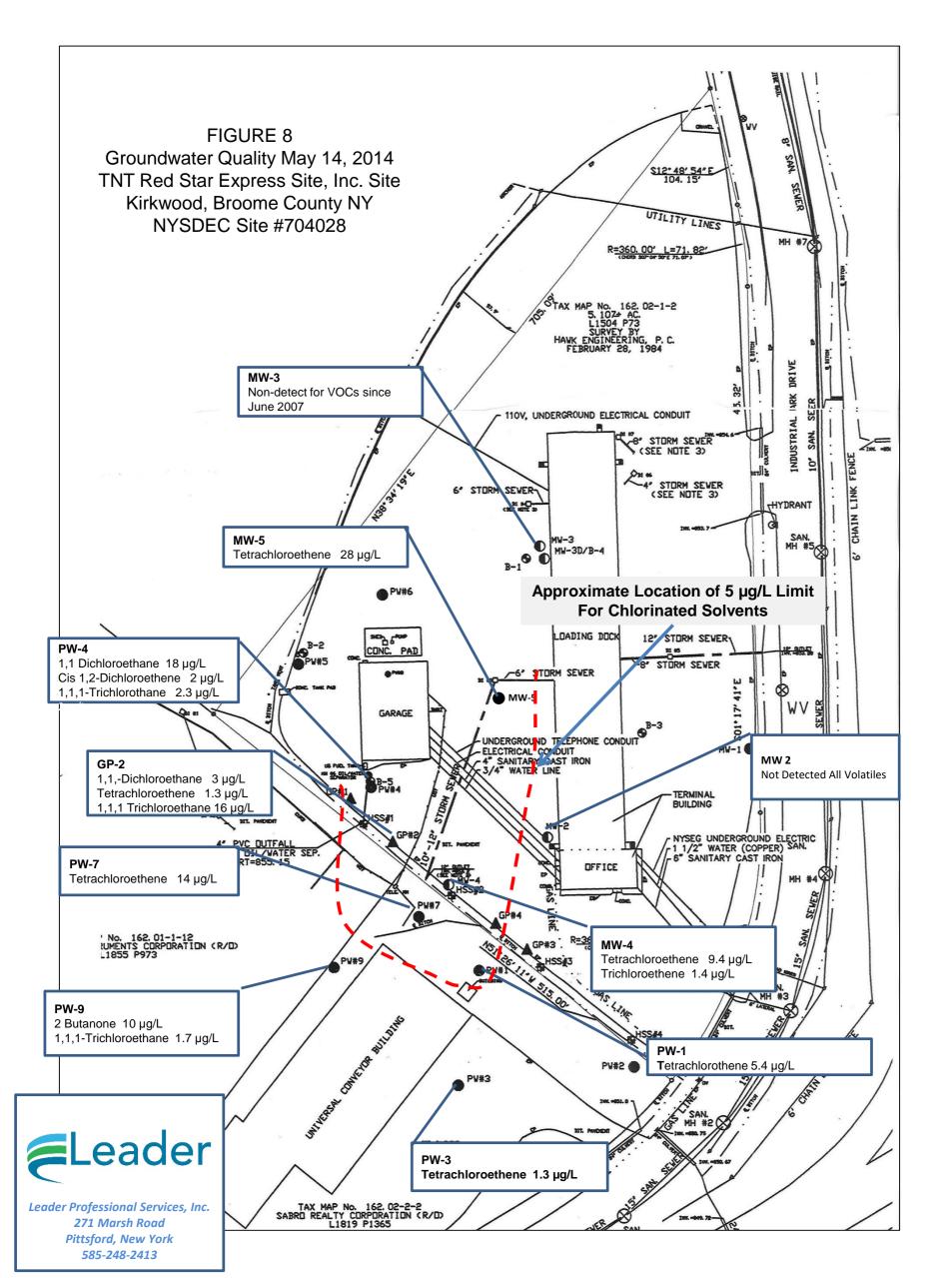
12/1/2016

NTS

Scale

PVS
Checked
MPR
File Name
Site Map

7



## **APPENDIX A Survey Map, Metes and Bounds**

### Southern Tier Surveying, Inc.

### 39 GRISWOLD STREET BINGHAMTON, NEW YORK 13904

PHONE 607-722-7765 FAX 607-722-9323 Roger H. Holmes, PLS

Surveyor's Description 5.107± Acre Parcel

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Kirkwood, County of Broome and State of New York bounded and described as follows:

Beginning at a rebar with cap set in the westerly boundary of the Perimeter Road at its intersection with the southwesterly boundary of the property now or formerly owned by the Broome County Industrial Development Agency by deed recorded in the Broome County Clerk's Office in Liber 1504 at page 73.

Thence along said property of the Broome County Industrial Development Agency the following two courses and distances:

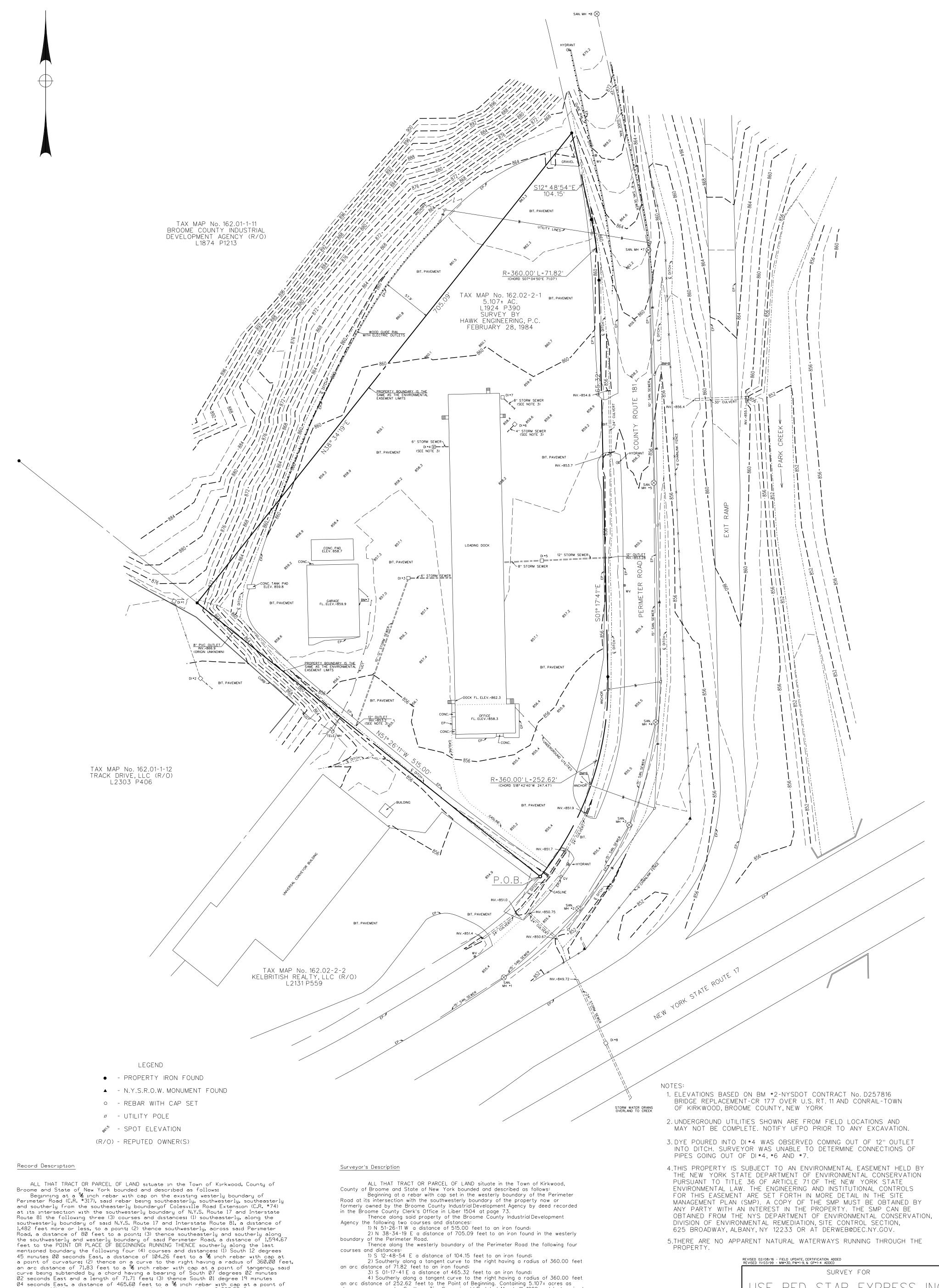
- 1) N 51-26-11 W a distance of 515.00 feet to an iron found;
- 2) N 38-34-19 E a distance of 705.09 feet to an iron found in the westerly boundary of the Perimeter Road.

Thence along the westerly boundary of the Perimeter Road the following four courses and distances:

- 1) S 12-48-54 E a distance of 104.15 feet to an iron found;
- 2) Southerly along a tangent curve to the right having a radius of 360.00 feet an arc distance of 71.82 feet to an iron found;
  - 3) S 01-17-41 E a distance of 465.32 feet to an iron found;
- 4) Southerly along a tangent curve to the right having a radius of 360.00 feet an arc distance of 252.62 feet to the Point of Beginning. Containing  $5.107\pm$  acres as shown on a survey by Southern Tier Surveying, LLP dated March 11, 1999 and last revised January 6, 2016.

SUBJECT TO an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for the Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway Avenue, Albany, NY 12232 or at <a href="mailto:derweb@dec.ny.gov">derweb@dec.ny.gov</a>.

ALSO SUBJECT to any other easement of record.



04 seconds East, a distance of 465.60 feet to a % inch rebar with cap at a point of curvature; (4) thence on a curve to the right having a radius of 360.00 feet, an arc distance of 252.62 feet to a % inch rebar with cap at its intersection with the division line between the property now or formerly owned by The Singer Company, Link Flight Simulation Division (General Precision Inc.) on the northeast and the property now or formerly owned by New Industries for Broome, Inc. on the southwest, the last mentioned curve being subtended by a chord having a bearing of South 18 degrees 47 minutes 06 seconds West and a length of 247.47 feet; thence North 51 degrees 25 minutes 41 seconds West along said division line, a distance of 515.00 feet to a % inch rebar with cap; thence North 38 degrees 34 minutes 19 seconds East, through the property now or formerly owned by said (General Precision, Inc.), a distance of 705.43 feet to the POINT OR PLACE OF BEGINNING. Containing 222,633 square feet or 5.1109 acres, more or less.

All bearings are referred to True North at the 76 degree, 35 minute Meridian of West Longitude

SCALE

4) Southerly along a tangent curve to the right having a radius of 360.00 feet an arc distance of 252.62 feet to the Point of Beginning. Containing 5.107± acres as shown on a survey by Southern Tier Surveying, LLP dated March 11, 1999 and last revised SUBJECT TO an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for the Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from the

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

Site Control Section, 625 Broadway Avenue, Albany, NY 12232 or at derweb@dec.ny.gov.

ALSO SUBJECT to any other easements of record. Only copies marked with the Land Surveyor's embossed seal and signed in red ink shall be considered true valid copies

TO:USF RED STAR, LLC, LEADER PROFESSIONAL SERVICES, INC. AND THE PEOPLE OF THE STATE OF NEW YORK ACTING THROUGH ITS COMMISSIONER OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING "CODE OF PRACTICE FOR LAND SURVEYS" ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

\_\_\_\_02/08/16 \_\_\_\_\_DATE ROGER H. HOLMES, PLS RED STAR EXPRESS, INC. 215 INDUSTRIAL PARK DRIVE

TOWN OF KIRKWOOD BROOME COUNTY, NEW YORK

SCALE: 1 INCH = 50 FEET

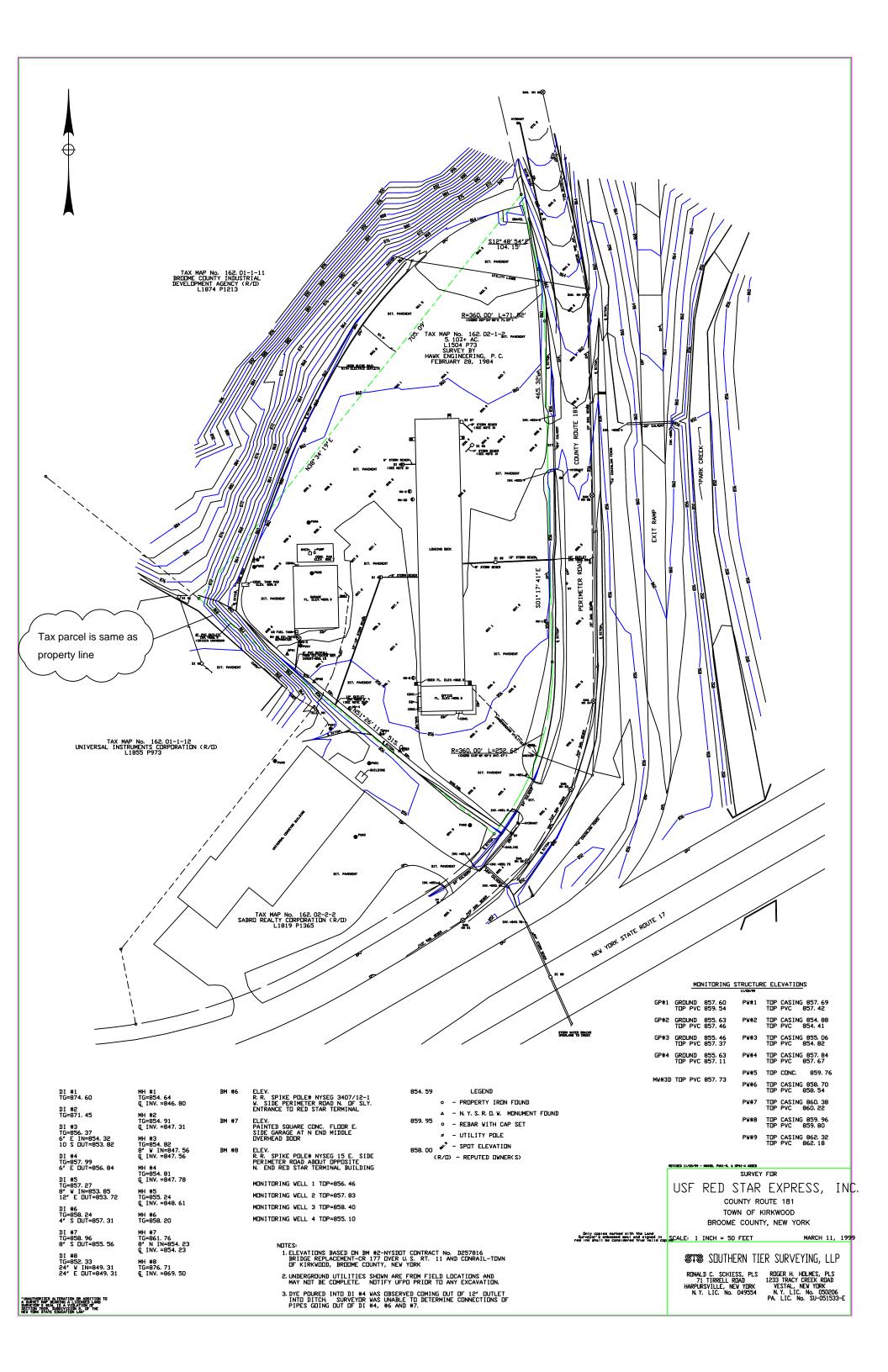
MARCH 11, 1999

STS SOUTHERN TIER SURVEYING, LLP

RONALD C. SCHIESS, PLS 71 TIRRELL ROAD HARPURSVILLE, NEW YORK N.Y. LIC. No. 049554

ROGER H. HOLMES, PLS 1233 TRACY CREEK ROAD VESTAL, NEW YORK N.Y. LIC. No. 050206 PA. LIC. No. SU-051533-E

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW"



## APPENDIX B Explanation of Significant Difference ("ESD")

### **Explanation of Significant Differences**

### TNT Red Star Express Site

Town of Kirkwood / Broome County / Site No. 7-04-028 / July 2007

Prepared by the New York State Department of Environmental Conservation
Division of Environmental Remediation



### 1.0 INTRODUCTION

The purpose of this notice is to describe the progress of the cleanup at the TNT Red Star Express Site and to inform you about a change in the Site remedy. The TNT Red Star Express Site is located at 97 Industrial Park Road in the Town of Kirkwood within an industrial park area owned by the Broome County IDA. On February 23, 2001, the New York State Department of Environmental Conservation (NYSDEC) issued a decision document or Record of Decision (ROD) which selected a remedy to utilize a groundwater pumping and treatment system including bioremediation.

This industrial site has a small defined plume which migrates off-site under a portion of the neighboring Harris Industrial Building. Since the Remedial Investigation (RI) in 1999, tetrachloroethylene (PCE) contaminant concentrations in the groundwater have decreased, and the science of in-situ bioremediation of chlorinated solvents has improved. Based on the July 2006 Bioremediation Bench Test Study and the results of the February 2007 Bioremediation Pilot Field Study, the groundwater pumping and treatment system called for in the ROD no longer appears to be the best remedy for this site.

The February 2001 ROD remedy calls for the PCE-contaminated groundwater to be pumped out of the ground, treated through a biological reactor and re-injected back into the ground. However, based on the recent studies noted above, in-situ bioremediation may achieve the remedial goals for this site more rapidly than the ROD-selected remedy involving groundwater extraction. Therefore, the significant difference or change to the ROD remedy that the NYSDEC is making is to biologically treat the contaminated groundwater in-place with no pumping. All the other elements of the ROD remedy will remain the same and be implemented.

This Explanation of Significant Differences (ESD) will become part of the Administrative Record for this Site. The information here is a summary of what can be found in greater detail in documents that have been placed in the following repositories:

**NYSDEC Central Office** 

625 Broadway, 12th Floor Albany, NY 12233-7016 Contact :Mr .John Durnin Project Manager (518) 402-9774 M-F: 8:30 am to 4 pm APPOINTMENT NEEDED NYSDEC

Region #7 Headquarters 615 Erie Boulevard West Syracuse, NY 13204 Telephone: 315-426-7400 APPOINTMENT NEEDED Kirkwood Town Clerk's Office

70 Crescent Drive Kirkwood, NY 13795-9654 Phone: (607) 775-1966 Attn: Ms. Gayle Diffendorf, Town Clerk Hours: M-F: 9 am-1 pm and 2 pm -4 pm Although this is not a request for comments, interested persons are invited to contact the Department's Project Manager for this site to obtain more information or have questions answered.

### 2.0 SITE DESCRIPTION AND ORIGINAL REMEDY

### 2.1 Site History, Contamination and Selected Remedy

### 2.1.1 Site Location, Size and Significant Features

The TNT Red Star Express Site is located at 97 Industrial Park Road in the Town of Kirkwood within an industrial park area owned by the Broome County IDA. The industrial park is located adjacent to and southwest of US 81, and northwest of Route 11. The site occupies approximately five acres and consists of a single story truck terminal and maintenance garage. The site is currently used as a trucking terminal where goods are transferred between trucks for distribution. The Susquehanna River is approximately one-half mile south of the site. Park Creek, a small tributary to the River, is less than 500 feet east of the site. Public water and sewage utilities serve the area. The closest major water supply well, Conklin Town Well No. 2, is located on the other side of the Susquehanna River. The next closest public water supply well serves the Town of Kirkwood. The Town currently operates an air stripper on these wells because of prior contamination from other sources.

### 2.1.2 Site Activities That Led to Contamination

In January of 1991, approximately 100 gallons of PCE was accidentally spilled at the loading dock. The PCE soaked into the adjacent soils. Prompt clean-up work involved the removal of approximately 120 tons of contaminated soil. Three monitoring wells were installed on the property and a soil vapor extraction (SVE) system was constructed.

### 2.1.3 Nature and Extent of Contamination

During the completion of the RI, a second contaminant plume was discovered and found to originate from the area of the waste oil tank and oil/water separator located next to the maintenance garage. Groundwater sampling has confirmed that PCE has impacted the aquifer, and has migrated off-site onto the adjacent property in a southwesterly direction.

### 2.1.4 Results of Investigation, Alternatives Analysis and Remedy Selection Process

The objectives of the Remedial Investigation/Feasibility Study (RI/FS) were to identify, develop, evaluate, and select a long-term, cost-effective, environmentally-sound and comprehensive remedial action for the Site. The results of the RI showed no significant soil contamination remaining at the site as a result of the prompt cleanup work in 1991. The main contaminants of concern are PCE and 1,1,1-trichloroethane in the groundwater. Since the need for remediation at this Site is restricted to volatile organic compounds (VOCs) in groundwater, alternatives were developed accordingly. The remedial

alternatives evaluated in this FS were developed with the objective of remediating groundwater under the Site to Part 703 Class GA groundwater quality criteria levels which will be protective of both human health and the environment. The Proposed Remedial Action Plan (PRAP) process was completed and formalized in a ROD. The Citizen Participation Plan was also followed which allowed for public comment on the PRAP for the site.

### 2.1.5 Components of Selected Remedy

On February 2001 a final selection of the remedial action for the clean-up was made and documented in the ROD. The elements of the ROD are as follows:

- Installation of a groundwater extraction system, a bioremediation treatment system and a treated groundwater reinjection system.
- Installation of injection wells around the source areas to introduce nutrients and/or microbes into the groundwater to enhance the biodegradation of the contaminants.
- A treatability study to effectively design the bio-remediation system.
- Implementation of a long-term monitoring program to evaluate the effectiveness of the remedy.

### 3.0 CURRENT STATUS

The responsible party for the TNT Red Star Express Site has been progressing toward site remediation since early 2005. The Site is currently in the pre-design stage which has involved the following activities:

- Bioremediation Bench Test Study completed July 2006
- Bioremediation Pilot Field Study completed February 2007
- On-going Soil Vapor Intrusion Investigation
- Fact Sheet mailed to the Citizens Participation (CP) Contact List in November 2006

The Department is negotiating a Consent Order with the responsible party for the Remedial Design/Remedial Action phase of this project.

### 4.0 DESCRIPTION OF SIGNIFICANT DIFFERENCES

### 4.1 New Information

In March 2005, the consultant for the responsible party completed a round of groundwater samples at the site. The results showed that the groundwater concentrations of PCE decreased since the time of the RI in 1999. In addition, the science of in-situ bioremediation of chlorinated solvents and aromatic hydrocarbons has advanced and

proprietary products are now available to enhance the in-situ bioremediation process. Based on the July 2006 Bioremediation Bench Test Study and the results of the February 2007 Bioremediation Pilot Field Study, the groundwater pumping and treatment system now appears to be unnecessary and the in-situ bioremediation alone can achieve the remedial goals for this site in a reasonable time period.

### 4.2 Comparison of Changes with Original Remedy

### 4.2.1 Scope

The scope of the remedy will only change from an emphasis on the groundwater pumping and treatment system to the bioremediation portion of the ROD remedy. The ROD remedy calls for the contaminated groundwater to be pumped out of the ground, treated through a biological reactor and re-injected back into the ground. The only significant difference will be that the contaminated groundwater will now be treated biologically inplace with no pumping. For this relatively small plume and now lower contaminant concentrations, the groundwater pumping and treatment system no longer appears to be the best remedy.

#### 4.2.2 Performance

The Bioremediation Bench Test results were very positive in demonstrating the potential for bioremediation to work at this site. In addition, the Field Pilot Study showed that the use of bioremediation is effective at this site.

### 4.2.3 Cost

There will be a cost savings associated with this modification of the selected remedy because the pump and treatment system will not be designed or constructed. Using the Remedial Alternative Costs in Table 2 of the ROD, the cost of the In-Situ Bioremediation and Groundwater Pumping and Treatment System has a present worth of \$120,000 while the In-Situ Bioremediation System alone has a present worth of \$98,500. There is a savings of \$21,500.

### 4.2.4 The reasoning behind the change and why the remedy remains protective of human health and the environment.

The goal of the remedy has not changed and continues to be a groundwater clean-up remedy. The use of injecting a proprietary product such as Hydrogen Release Compound (HRC) into the contaminated groundwater for in-situ bioremediation should attain the same results as a combination of pumping with a bioremediation treatment. Therefore, the remedy remains protective of human health and the environment as per the ROD.

### 5.0 SCHEDULE AND MORE INFORMATION

### 5.1 The Next Steps, Scheduling and Sources for More Information

A Fact Sheet will be mailed to everyone on the CP Contact List explaining the significant difference in the ROD remedy. The implementation of the bioremediation system portion of the ROD will begin with the submission of a formal design to inject the groundwater with a HRC treatment. The design will include details of the number of injection points, the locations, spacing and depth of the HRC injections as well as the frequency and concentration of each HRC application. This design will be reviewed for approval by NYSDEC and NYSDOH. Implementation of a long-term groundwater monitoring program will also be required to monitor the effectiveness of the HRC injections. An approved schedule will follow and reporting to NYSDEC will be part of that schedule.

### 5.2 Additional Information

If you have questions or need additional information, you may contact any of the following:

John Durnin Project Manager NYSDEC, Central Office 625 Broadway, 12th Floor Albany, NY 12233-7016 (518) 402-9774

Diane Carlton
Public Affairs and Education
NYSDEC Region 7
217 South Salina Street, 3<sup>rd</sup> Floor
Syracuse, NY 134202
(315) 4267413

Melissa Menetti
Public Health Specialist
NYS Department of Health
Bureau of Environmental Exposure
Investigation
Flanigan Square
547 River Street
Troy, NY 12108
(518) 402-7860

7/14/2007 Date

7/19/7

7/19/7

Date

JUL 3 0 2007

John Durnin, Project Manager Remedial Bureau B, Section B

James Quinn, Section Chief Remedial Bureau B, Section B

Robert Cozzy, Acting Bureau Director

Remedial Bureau B

Salvatore Ervolina Assistant Director Division of Environmental Remediation

Dale Desnoyers, Director

Division of Environmental Remediation

## **APPENDIX C**Oil/Water Separator Decommissioning Report

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Division of Environmental Remediation, Remedial Bureau B** 625 Broadway, 12th Floor, Albany, NY 12233-7016 P: (518) 402-9768 I F: (518) 402-9773 www.dec.ny.gov

April 3, 2015

Mr. Peter von Schondorf, PG Senior Project Manager Leader Professional Services Inc. 271 Marsh Road Pittsford, NY 14534

Re:

Former TNT Red Star Express Site 97 Industrial Park Drive, Kirkwood, NY

Site No. 704028
Oil/Water Separator

**Decommissioning Report Approval** 

Dear Mr. von Schondorf,

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the *Oil/Water Separator Decommissioning Report* dated February 10, 2015 by Leader Professional Services Inc. documenting the decommissioning of the Oil/Water Separator at the Former TNT Red Star Express Site at 97 Industrial Park Drive, Kirkwood, NY.

This work included cleaning and sealing (with concrete) both the interior floor drains and the Oil/Water Separator. The report provides photographs of these activities and documents the proper disposal of the waste.

The documented closure activities are consistent with the approved October 22, 2013 Addendum to the Remedial Action Work Plan for the Closure of the Oil/Water Separator. This Oil/Water Separator Decommissioning Report is hereby approved.

Should you have any questions, please contact me at (518) 402-9768.

Sincerely,

John Durnin, P.E.

**Environmental Engineer** 

Remedial Bureau B, Section B

Division of Environmental Remediation

F PF

ecc:

J. Brown, NYSDEC Melissa Doroski, NYSDOH Maureen Schuck, NYSDOH



### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Division of Environmental Remediation, Remedial Bureau B** 625 Broadway, 12th Floor, Albany, NY 12233-7016 P: (518) 402-9768 I F: (518) 402-9773 www.dec.ny.gov

April 3, 2015

Mr. Peter von Schondorf Senior Project Manager Leader Professional Services Inc. 271 Marsh Road Pittsford, NY 14534

Re:

Former TNT Red Star Express Site

97 Industrial Park Drive, Kirkwood, NY

Site No. 704028

**Monitoring Well Decommissioning** 

**Report Approval** 

Dear Mr. von Schondorf,

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the *Monitoring Well Abandonment Completion Report* dated December 1, 2014 by Leader Professional Services Inc. documenting the decommissioning of all the monitoring wells at the Former TNT Red Star Express Site at 97 Industrial Park Drive, Kirkwood, NY.

The following wells (on-site and off-site) were decommissioned on November 11 and 12, 2014: GP-2, MW-1, MW-2, MW-3, MW-3D, MW-4, MW-5, PW-1, PW-3, PW-4, PW-7 and PW-9. As a matter of record, during the Remedial Investigation phase the following on-site wells were decommissioned: GP-1, GP-3, GP-4, PW-2, PW-5, PW-6 and PW-8. No monitoring wells remain at the TNT Red Star Express Site.

The documented decommissioning procedures are consistent with the approved September 15, 2014 Monitoring Well Decommissioning Plan. The Monitoring Well Abandonment Completion Report is hereby approved. Should you have any questions, please contact me at (518) 402-9768.

Sincerely,

John Durnin, P.E.

**Environmental Engineer** 

Remedial Bureau B, Section B

Division of Environmental Remediation

P.E.

ecc:

J. Brown, NYSDEC Melissa Doroski, NYSDOH



250.016

February 10, 2015

Leader Professional Services, Inc.

271 Marsh Road, Suite 2 Pittsford, New York 14534

(585) 248-2413 (585) 248-2834 (Fax) www.leaderlink.com



John Durnin, PE Division of Hazardous Waste Remediation New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Re:

Oil Water Separate Decommissioning Report

Former TNT Red Star Express Site

Town of Kirkwood, Broome County, New York

NYSDEC Site #704028

### Dear Mr. Durnin:

Leader Professional Services, Inc. ("Leader") completed the oil water separator decommissioning project on January 6, 2015, following the October 22, 2013 Addendum to the Remedial Action Work Plan.

### **Completed Activities**

The decommissioning of the oil water separator was completed by Trec Environmental and the Safety-Kleen Company. The waste was manifested and transported to Baltimore, Maryland by Safety-Kleen to their parent company Clean Harbors. The decommissioning involved the following:

- 1. Pumping the wastes from the oil water separator.
- 2. Vacuuming and flushing of interior floor drains and re-pumping the separator.
- 3. Rinse separator while pumping.
- 4. Filling the floor drains and separator with concrete.

The volume of waste removed from the oil water separator at approximately 100 gallons was determined by a gauge on the vacuum truck but the volume of waste based on the dimensions of the separator was estimated at approximately 360 gallons not including rinse water. Once the waste was received in Baltimore, the waste was re-sampled and analyzed, and the load volume metered into the plant. The analytical results on a mixed liquid-suspended solid wastewater found the waste was also high in lead. This necessitated a change to the manifest to include a D009 lead waste code. The facility made no changes to the volume of waste on the manifest.



### **Completion Records**

Attachment 1 provides sampling data, a copy of the hazardous waste manifest, Land Disposal restriction notification form, and certificate of disposal for the waste. Attachment 2 provides photographs of the decommissioning process.

If you have questions regarding our report, please call us at 585-248-2413.

Very truly yours,

LEADER PROFESSIONAL SERVICES, INC.

Peter von Schondorf, PG Senior Project Manager

cc: Ruben Byerley, YRC Freight

## ATTACHMENT 1 Waste Disposal Documentation



Lab ID: BA1501294

### CHI-BA Laboratory Disposal Worksheet Incoming CES Treatment and Conformance Tests

Generator: Hauler: Manifest number: EPA waste codes: Manifested volume: Measured volume: Profile number: Work order number: Tracking number:	TNT Red Star Express CHES 004875948FLE F002 100 100 1100 917955 1500106798-001 42846416	Date sampled: Date analyzed: Time in lab: Time out: Tanker number: Tanker level (in): Sampler: Chemist(s):	
Physical Description:	Dank brown flevil i	vilu sludje & su	ispended valide
Phase (%) Top;	100 Middle:	Bottom:	
/ .		Yes No	Partial
	10.7 Cyanide (ppm): $\angle 1$	^	
pH: Flash Point (°F):	> 140 Specific Gravity: 1.0	Oxidizer: Pos	
	Compatibility Yes No		
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Trt	Tri I n m i	1 Fellow V: 0.8941	Trt
Ag: 0.023	Cr: 2.901 Ni: 1.384		Acid digestion:
As: 0. PZG	Cu) 43.324 PA: 30.56		Prefiltered? Postfiltered?
Ba: 24.9611			rosquierea:
Cd: 1.154   Co: 0.861	Hg: < 0.021 Sh: 0.892 Mo 9.406 Ti: 3.167		ND = not detected
Co. 0 . (61)	11. 01101		
Volatile organic compou	ends (ppm) Dilution x200 x1600 x_		
Methanol: ND	Acrylonitrile: NO Chloroform:		
Ethanol:	n-Propanol: Benzene:	DMF;	
Acetone:	Allyl alcohol: n-Butanol:		
Isopropanol:	MEK: Mi BK:		
MeCl <sub>2</sub> :	Ethyl acetate: Toluene:		
Acetonitrile:	THF: Eth. Glycol:		
t-Butanol:	sec-Butanol: Prop. Glycol:	VOC total (ppm):	
Semi-voletile compound	s (ppm) Dilution x) x10 x50 x	Treated solids (%):	1.10
Phenol:	MS Acid phenon MS verified? Y(N)	TRT: #-C	-2-1-
o-Cresol:	Comment:		
p-Cresol:	PCBs (ppm):		
2,4,6-TCP:	Aroclor ID? Yes (No	Neut. Eq:	
<u></u>		11	More HOLD
Comments or other analys		917	NOON
Disposal information:	PRETREAT		
Final code: A24?	Released by: 71	Off-C reason:	<del>5 = 1</del> = 15:
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42846416



Yes tank wash

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Clean Harbors of Baltimore Inc 1910 Russell Street Baltimore MD, 21230 MDD980555189 (410) 244-8200

### **CERTIFICATE OF DISPOSAL**

Generator Contact Name:

Mr Rubin Byerley

Generator Facility Name:

TNT Red Star Express

Generator Address:

10990 Roe Ave.

Overland Park, KS 66211

Sales Order #:

1500106798

Date Received:

1/16/2015

Generator EPA ID:

NYD986950020

Manifest #:

004875948FLE

Line # Profile/Description

Disposal

Method of Disposal Disposal Facility

Date

1 917955 Oily Sludge 1/27/2015

Clean Extraction System (liquid-

Baltimore, MD Facility

liquid extraction)

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Name:

Title:

**VP Environmental Applications** 

Date:

Saturday, February 07, 2015



### Land Disposal Restriction Notification Form

Page: 1 of 1

Printed Date: Jan 14, 2015

	NTAL SERVICES	•	*************************	=======================================		=======================================
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EPA		6950020	******************	Sal	es Order No: 1500106	3798-001
	NFORMATION Page No:	Profile No:	Treatability Grou	D:	LDR Disposal Catego	ry
Line Item: 1.	1	917955		NON-WASTEWATER 2 (This is subject		DR.)
EPA Waste	Code	L			ste SubCategory	
F002				NONE		* - y, =
			LDR Chemical I	Data		
Chemical				Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TETRACHL	OROETHYLENE			N	Υ	N
			Certification			Applies to Manifest Line Items
Pursuant to Part 268.	40 CFR 268.7(a)	, I hereby notify tha	t this shipment conta	ins waste re	stricted under 40 CFR	1.
Waste analy Signature Title :	1/1/2	available, is attached with Schools	Print Na	ame [	oter von Schon 1-16-15	dort

## ATTACHMENT 2 Oil/Water Separator Waste Sample Results



### **Analytical Report Cover Page**

### **Leader Professional Services**

For Lab Project # 12:3057 Issued August 1, 2012 This report contains a total of 14 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report or are noted below:

### Reduced sample size used for TCLP (1311) extraction due to limited sample volume.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

<sup>&</sup>quot;<" = analyzed for but not detected at or above the reporting limit.

<sup>&</sup>quot;E" = Result has been estimated, calibration limit exceeded.

<sup>&</sup>quot;Z" = See case narrative.

<sup>&</sup>quot;D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

<sup>&</sup>quot;M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

<sup>&</sup>quot;B" = Method blank contained trace levels of analyte. Refer to included method blank report.

### LAB REPORT FOR pH ANALYSIS IN WATERS

Client:

**Leader Professional Services** 

Lab Project No.: 12:3057

Client Job Site:

YRCW Kirkwood

Sample Type: Water

Client Job No.:

N/A

Method:

SM19 4500HB / EPA 9040

Date Sampled:

07/20/2012

Time Sampled:

N/A

Date Received: Time Received 07/20/2012 2:42 PM

Date Analyzed:

07/20/2012

Time Analyzed: 4:00 PM

Location:

Lab

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
12:3057-01	N/A	Waste Water	6.82 @ 23.1 °C
·			
	1		

Comments:

Approved By:

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. compliance with sample condition requirements upon receipt.

### LAB REPORT FOR SOIL/SOLID/SLUDGE pH MEASURED IN WATER

Client:

**Leader Professional Services** 

Lab Project No.:

12:3057

**Client Job Site:** 

YRCW Kirkwood

Sample Type: Method:

Sludge SW846 9045C

Client Job No.:

N/A

Date Sampled:

07/20/2012

**Date Received:** Date Analyzed: 07/20/2012 07/26/2012

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
12:3057-02	N/A	Sludge	6.98 @ 21.8 °C

ELAP ID No.: 10958

Comments:

Approved By:

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. including compliance with sample condition requirements upon receipt.



### LABORATORY REPORT FOR GLYCOLS BY GAS CHROMATOGRAPHY

Client:

**Leader Professional Services** 

Lab Project No.:

12:3057

**Client Job Site:** 

YRCW Kirkwood

Sample Type:

Water / Sludge

Client Job No.:

N/A

Date Sampled:

7/20/2012

Date Received:

7/20/2012

Date Analyzed:

7/31/2012

**Analytical Method:** EPA 8015

Lab Sample ID.	Sample Location/Field ID	Ethylene Glycol
12:3057-01	Waste Water	<10.0 mg/L
12:3057-02	Sludge	<19 mg/kg
·		

**ELAP ID No. 10709** 

Comments:

Approved By:

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

File ID: Leader 12-3057



179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

## LAB REPORT FOR RCRA METALS ANALYSIS IN WATERS

Client:

**Leader Professional Services** 

Lab Project No.: Lab Sample No.:

12:3057 12:3057-01

Client Job Site:

YRCW Kirkwood

Sample Type:

Water

Client Job No.:

N/A

Date Sampled:

07/20/2012

Field Location: Field ID No.:

Waste Water

N/A

Date Received:

07/20/2012

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	07/25/2012	SW846 3005/6010	0.115
Barium	07/25/2012	SW846 3005/6010	7.64
Cadmium	07/25/2012	SW846 3005/6010	0.076
Chromium	07/25/2012	SW846 3005/6010	0.823
Lead	07/25/2012	SW846 3005/6010	0.551
Mercury	07/24/2012	SW846 7470	<0.0020
Selenium	07/25/2012	SW846 3005/6010	<0.010
Silver	07/25/2012	SW846 3005/6010	<0.010

ELAP ID No.:10958

Comments:

Approved By: Walmhullin (AC.

Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID:12-3057.xls



## LAB REPORT FOR TCLP RCRA METALS ANALYSIS

Client:

**Leader Professional Services** 

Lab Project No.: 12:3057

Lab Sample No.: 12:3057-02A

Client Job Site:

YRCW Kirkwood

**Sample Type:** TCLP Extract

Client Job No.:

N/A

**Date Sampled:** 07/20/2012 **Date Received:** 07/20/2012

Field Location: Field ID No.:

Sludge N/A

Result Regulatory Date **Analytical Method Parameter** (mg/L)Limit (mg/L) Analyzed 5.0 07/25/2012 SW846 1311/3005/6010 < 0.100 Arsenic 2.66 100 Barium 07/25/2012 SW846 1311/3005/6010 1.0 07/25/2012 SW846 1311/3005/6010 <0.025 Cadmium < 0.050 5.0 07/25/2012 SW846 1311/3005/6010 Chromium 5.0 < 0.100 07/25/2012 SW846 1311/3005/6010 Lead 0.2 < 0.0020 Mercury 07/24/2012 SW846 1311/7470 1.0 07/25/2012 SW846 1311/3005/6010 < 0.100 Selenium SW846 1311/3005/6010 5.0 < 0.050 Silver 07/25/2012

ELAP ID No.:10958

Comments:

Approved By: (Lalmmll) ~

Bruce Hoogesteger, Technical Director



#### **PCB Analysis Report for Non-potable Water**

Client: Leader Professional Services

Client Job Site:

YRCW Kirkwood

Lab Project Number:

12:3057

Client Job Number:

N/A

Lab Sample Number:

12:3057-01

Field Location:

Waste Water

Date Sampled:

07/20/2012

Field ID Number:

N/A

Date Received:

07/20/2012

Sample Type:

Water

Date Analyzed:

07/23/2012

PCB Identification	Results in ug / L
Aroclor 1016	< 1.00
Aroclor 1221	< 1.00
Aroclor 1232	< 1.00
Aroclor 1242	< 1.00
Aroclor 1248	< 1.00
Aroclor 1254	< 1.00
Aroclor 1260	< 1.00

ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3510C

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director



## PCB Analysis Report for Soils/Solids/Sludges

Client: Leader Professional Services

Client Job Site:

YRCW Kirkwood

Lab Project Number: Lab Sample Number: 12:3057 12:3057-02

Client Job Number: N/A

Field Location:

Sludge

**Date Sampled:** 

07/20/2012

Field ID Number:

N/A

Date Received:

07/20/2012

Sample Type:

Sludge

Date Analyzed:

07/24/2012

PCB Identification	Results in mg / Kg
Aroclor 1016	< 1.01
Aroclor 1221	< 1.01
Aroclor 1232	< 1.01
Aroclor 1242	< 1.01
Aroclor 1248	< 1.01
Aroclor 1254	< 1.01
Aroclor 1260	< 1.01

ELAP Number 10958

Analytical Method: EPA 8082A

Prep Method: EPA 3550C

Comments: mg / Kg = milligram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition 123057P2 requirements upon receipt.



## Volatile Analysis Report for Non-potable Water

Client: Leader Professional Services

**Client Job Site:** 

YRCW Kirkwood

Lab Project Number: 12:3057

Client Job Number:

N/A

Lab Sample Number: 12:3057-01

Field Location:

Waste Water

Date Sampled:

07/20/2012

Field ID Number:

N/A

Date Received:

07/20/2012

Sample Type: Water Date Analyzed:

07/25/2012

10.00	
Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	< 2.00
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	2.40
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	34.6
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	3.73
Trichlorofluoromethane	< 2.00

Aromatics	Results in ug / L
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	3.34
Toluene	< 2.00
m,p-Xylene	14.4
o-Xylene	6.34
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L	
Acetone	B 60.1	
2-Butanone	< 10.0	
2-Hexanone	< 5.00	
4-Methyl-2-pentanone	< 5.00	

Miscellaneous	Results in ug / L
Carbon disulfide	4.41
Vinyl acetate	< 5.00
•	

ELAP Number 10958

Vinyl chloride

Method: EPA 8260B

< 2.00

Data File: V99111.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director



### Volatile Analysis Report for Soils/Solids/Sludges

Client: Leader Professional Services

Client Job Site:

YRCW Kirkwood

Lab Project Number: 12:3057

Client Job Number:

N/A

Lab Sample Number: 12:3057-02

Field Location:

Sludge

Date Sampled:

07/20/2012

Field ID Number:

N/A

**Date Received:** 

07/20/2012

Sample Type:

Date Analyzed:

07/26/2012

Sludge

45.050	
Halocarbons	Results in ug / Kg
Bromodichloromethane	< 223
Bromomethane	< 223
Bromoform	< 558
Carbon Tetrachloride	< 223
Chloroethane	< 223
Chloromethane	< 223
2-Chloroethyl vinyl Ether	< 1,120
Chloroform	< 223
Dibromochloromethane	< 223
1,1-Dichloroethane	< 223
1,2-Dichloroethane	< 223
1,1-Dichloroethene	< 223
cis-1,2-Dichloroethene	< 223
trans-1,2-Dichloroethene	< 223
1,2-Dichloropropane	< 223
cis-1,3-Dichloropropene	< 223
trans-1,3-Dichloropropene	< 223
Methylene chloride	< 558
1,1,2,2-Tetrachloroethane	< 223
Tetrachloroethene	1,480
1,1,1-Trichloroethane	< 223
1,1,2-Trichloroethane	< 223
Trichloroethene	< 223
Trichlorofluoromethane	< 223
Vinyl chloride	< 223

Aromatics	Results in ug / Kg
Benzene	< 223
Chlorobenzene	< 223
Ethylbenzene	2,850
Toluene	1,450
m,p-Xylene	16,100
o-Xylene	8,830
Styrene	< 558
1,2-Dichlorobenzene	< 223
1,3-Dichlorobenzene	< 223
1,4-Dichlorobenzene	< 223

Ketones	Results in ug / Kg
Acetone	2,430
2-Butanone	< 1,120
2-Hexanone	3,770
4-Methyl-2-pentanone	< 558

Miscellaneous	Results in ug / Kg
Carbon disulfide	< 223
Vinyl acetate	< 558
•	

ELAP Number 10958

Method: EPA 8260B

Data File: V99156.D

Comments: ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt 123057V2.XLS requirements upon receipt.



## Volatile Analysis Report for Non-potable Water

Client: Leader Professional Services

**Client Job Site:** 

YRCW Kirkwood

Lab Project Number: 12:3057

Client Job Number:

N/A N/A

Date Sampled:

N/A

Lab Sample Number: Water LRB 07/25

Field Location: Field ID Number:

N/A

**Date Received:** 

N/A

Sample Type: Water Date Analyzed:

07/25/2012

Halocarbons	Results in ug / L
Bromodichloromethane	< 2.00
Bromomethane	< 2.00
Bromoform	< 5.00
Carbon Tetrachloride	< 2.00
Chloroethane	< 2.00
Chloromethane	< 2.00
2-Chloroethyl vinyl Ether	< 10.0
Chloroform	< 2.00
Dibromochloromethane	< 2.00
1,1-Dichloroethane	< 2.00
1,2-Dichloroethane	< 2.00
1,1-Dichloroethene	< 2.00
cis-1,2-Dichloroethene	< 2.00
trans-1,2-Dichloroethene	< 2.00
1,2-Dichloropropane	< 2.00
cis-1,3-Dichloropropene	< 2.00
trans-1,3-Dichloropropene	< 2.00
Methylene chloride	< 5.00
1,1,2,2-Tetrachloroethane	< 2.00
Tetrachloroethene	< 2.00
1,1,1-Trichloroethane	< 2.00
1,1,2-Trichloroethane	< 2.00
Trichloroethene	< 2.00
Trichlorofluoromethane	< 2.00
Vinyl chloride	< 2.00

Aromatics	Results in ug / L
Benzene	< 0.700
Chlorobenzene	< 2.00
Ethylbenzene	< 2.00
Toluene	< 2.00
m,p-Xylene	< 2.00
o-Xylene	< 2.00
Styrene	< 5.00
1,2-Dichlorobenzene	< 2.00
1,3-Dichlorobenzene	< 2.00
1,4-Dichlorobenzene	< 2.00

Ketones	Results in ug / L
Acetone	11.5
2-Butanone	< 10.0
2-Hexanone	< 5.00
4-Methyl-2-pentanone	< 5.00

iscellaneous	Results in ug / L
arbon disulfide	< 2.00
nyl acetate	< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: V99106.D

Comments: ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director





# CHAIN OF CUSTODY

PARADIGM  PROJECT REFERENCE  PROJECT REFERENCE	ENCE ENCE	CLIENT: CEARCE PROF.  ADDRESS: 271 MARSH RC  CITY HS FOR N.	ZIP: CITY: 27  ZIP: CITY: 27  ATTN: 2 DW Drinking WG Groundwater PMW Wastev	ZIP:	Quotation #:  Email:  DV075C/70700000000000000000000000000000000	OL - Oil AR - Air
DATE COLLECTED TIME COLLECTED	m ⊣ − w ○ o ≥ o o o	SAMPLE IDENTIFIER	X-N+XZ WMDOO  TO RMBSCZ WRMZ->+ZOO  8260B VUX  ETHYLEWS GLOB PH PCB TCPMotal ALYSIS		REMARKS	PARADIGM LAB SAMPLE NUMBER
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Rush 3 day	Category A	NYSDEC EDD	Da	Time		
Rush 2 day	Category B		Received By Date/Time Received By Date/Time	20/12	SOAL SOAL	
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## Chain of Custody Supplement

Client:	Leader.	Completed by:	
Lab Project ID:	12:3057	Date:	7/20/12
	Sample Condition Red Per NELAC/ELAP 210/241/	<b>quirements</b> 242/243/2 <del>4</del> 4	
Condition	NELAC compliance with the sample conditi Yes	on requirements upo No	on receipt N/A
Container Type			
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments			<u></u>
Preservation  Comments			
Chlorine Absent (<0.05 ppm per test strip) Comments			
Holding Time  Comments		· .	
Temperature Comments	210C Daduleen 7/20/12	<u></u>	metale
Sufficient Sample Quantity  Comments			

1/9 Lake Avenue, Kochester, IVT 14000 Cilice (2007) 0777-2000 1 100 (2007) 0777

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 10709

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ADDRESS:  ADDRESS:  ADDRESS:  ADDRESS:  ADDRESS:  ATTN:  Jane Daloia  COMMENTS:  Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com  M  G  R  B  R  SAMPLE LOCATION/FIELD ID  R  B  T  T  T  T  T  T  T  T  T  T  T  T	CO   CO   CO   REPORTITO:   REPORTITO:   NOVOICE TO:   N			12:3057-02-		
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COMPANY: Paradigm Environmental company: Same  ADDRESS: STATE: ZIP: CITY: STATE: ZIP: PHONE: FAX: PHONE: FAX: PHONE: FAX: Meridith Dillman  COMMENTS: Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com  REQUESTED ANALYSIS	COMPANY: Paradigm Environmental   COMPANY: Same   INVOICE TO:   Same   COMPANY: Same   COMPANY: Same   COMPANY: Same   COMPANY: STATE: ZIP:   CITY: STATE: ZIP:   PHONE: FAX:   PHONE:	REMARKS		G R SAMPLE LOCATION/FIELD ID A B	m T - S O D M O C	i.
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## ATTACHMENT 3 Photographs

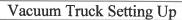




Vacuum Truck's Highway Use Sticker

Truck License Plate







Vacuum Truck Operating





Cleaned and Flushed Floor Drain

Clogged Floor Drain



Filling Oil Water Separator

# APPENDIX D Monitoring Well Decommissioning Report

Leader Professional Services, Inc.

271 Marsh Road, Suite 2 Pittsford, New York 14534

250.016

December 1, 2014

(585) 248-2413 (585) 248-2834 (Fax) www.leaderlink.com



John Durnin, PE Division of Hazardous Waste Remediation New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Re: Monitoring Well Abandonment Completion Report

Former TNT Red Star Express Site

Town of Kirkwood, Broome County, New York

NYSDEC Site #704028

Dear Mr. Durnin:

Leader Professional Services, Inc. ("Leader") completed the monitoring well abandonment project on November 11 and 12, 2014, following the September 15, 2014 Addendum to the Remedial Action Work Plan.

### **Completed Activities**

The decommissioning of the groundwater monitoring wells involved the following:

- 1. Grouting the monitoring well using a cement bentonite grout mixture and a tremie pipe to fill the monitoring well until the grout level is within a few feet of the ground surface.
- 2. Removed up to five feet of the monitoring well riser and the curb box and fill any void with grout to within 0.5 feet of the ground surface.
- 3. Capped the remaining hole with concrete unless the location is within a lawn area where the remaining hole will be filled with soil.
- 4. Complete a well log for the decommissioning.

For the site's one inch diameter monitoring wells, the grout mixture was poured into the well bore. The grout level will be allowed to settle for four hours before continuing with the decommissioning to ensure the grout has completely filled the monitoring well.

#### **Deviations**

Four situations/conditions occurred where the plan could not be completed as designed:

1. Deviations from the accepted plan occurred when vehicles or a trailer could not be moved a safe distance from the monitoring well location. In these two instances, the monitoring well or a portion of the monitoring well could not be removed. This occurred at



monitoring wells MW-2 and MW-4. At these locations, the grout mixture was tremied into the monitoring well and capped with concrete.

- 2. At monitoring well locations PW-1, PW-3, PW-7 and PW-9, the grout mixture would not flow into the monitoring using the approved mixture. Bentonite chips were placed into the monitoring well to a point at the recorded water level to absorb any water in the well screen. The bentonite was given several hours to hydrate before a grout mixture was added. This grout mixture used approximately 10 to 12 gallons of water per a 94 pound bag of cement.
- 3. At locations MW-1, MW-3, GP-2 and PW-4, the flush mounted curb boxes were left in place since the surrounding asphalt was in good condition and the rim of the curb box was slightly below the adjacent ground surface enabling complete filling of the hole. At monitoring location MW-4, the curb box was left in place because a vehicle could not be moved to facilitate removal.
- 4. At monitoring well MW-3D, the bottom of the monitoring well was punctured to allow grout to be pumped into the well and to assist in the grouting of the sand pack as the well was removed.

#### **Completion Records**

Attachment 1 provides a log of each monitoring well's abandonment. Attachment 2 provides photographs of the abandonment process.

If you have questions regarding our report, please call us at 585-248-2413.

Very truly yours,

LEADER-PROFESSIONAL SERVICES, INC.

Peter von Schondorf, PG Senior Project Manager

cc: Ruben Byerley, YRC Freight

## ATTACHMENT 1 Completion Logs

Environmental Engineers & Scientists

Project: TNT Red St	tar	Location: Kirkwood, NY		Well No.: GP-2	
				Permit No.:	
TOC elev.:	-				
TOC elev.:					
100 0.00		SUMMARY			
		Drilling Company	r: Trec Env. Contracting	Drillers: Jim Apgar	_
		<b>10/-11</b>	1006 5		
		vvater Leve Casing Materia	el 8.2 ft. bgs	Diameter: 2-in.	
		Screen Size		Diameter: 2-in.	
		Slot Size	0.01	Setting:	
		Filter Pack		Setting:	
	-	Grout Waterial Grout Setting	: Cement Bentonite	Setting:	
		Surface Seal		Settling: 0 - 1 ft bgs.	
		Surface Casing Material			
		TIME LOG			
		THE EGG			
	<u>  —                                     </u>				
		<b>A.</b>	Started	Completed	
		Abandonmen	1 11-NOV-14	12-Nov-14	
		Annual Control of the			

Environmental Engineers & Scientists

Project:	TNT Red Star	Loca	tion: Kirkwood, NY		Well No.: MW-1 Permit No.:	
TOC elev.:		-				
	TOC aloue					
	TOC elev.:		SUMMARY			
			CONTRACT			
			Drilling Company:	Trec Env. Contracting	Drillers: Jim Apgar	
			Water Level	7.7 ft. bgs		
			Casing Material:	PVC	Diameter: 2-in.	
		33311111	Screen Size:		Diameter: 2-in.	
			Slot Size: Filter Pack:		Setting: 5 - 20 ft. Setting:	
				Cement Bentonite	coung.	
			Grout Setting:	1 ft. bgs	Setting: 20 ft.	
			Surface Seal:		Settting: 0 - 1 ft bgs.	
		_	Surface Casing Material:	Removed		
		=				
		<u>-</u>	TIME LOG			
	-	_				
				Started	Completed	
			Abandonment		12-Nov-14	
		=				
		_				
	L					

Environmental Engineers & Scientists

Project:	TNT Red St	ar	Loca	ation: Kirkwood, NY		Well No.: MW-2
						Permit No.:
TOC elev.:			-			
	TOC elev.:			SUMMARY		
					Trec Env. Contracting	Drillers: <u>Jim Apgar</u>
				Water Level Casing Material:	PVC	Diameter: 2-in.
				Screen Size: Slot Size:	PVC 0.01	Diameter: 2-in. Setting: 5 - 20 ft.
				Filter Pack:		Setting: 5 - 20 it.
				Grout Material:	Cement Bentonite	-
				Grout Setting: Surface Seal:	1 ft. bgs	Setting: 20 ft. Settting: 0 - 1 ft bgs.
				Surface Casing Material:		Setting. 0 - 1 it bgs.
			1	odridoc odoling Material.		
				TIME LOG		
	-			Abandonment	Started 11-Nov-14	Completed 12-Nov-14

Environmental Engineers & Scientists

Project: TNT Red Star	Loca	ation: Kirkwood, NY		Well No.: MW-3 Permit No.:	
TOC elev.:	-				
TOC elev.:		SUMMARY			
			Trec Env. Contracting	Drillers: <u>Jim Apgar</u>	
		Water Level	8.85 ft. bgs		
		Casing Material:	PVC	Diameter: 2-in.	
		Screen Size:		Diameter: 2-in.	
		Slot Size:		Setting:	
		Filter Pack:		Setting:	
			Cement Bentonite		
		Grout Setting:	1 ft. bgs	Setting:	***************************************
	1 1	Surface Seal:		Settting: 0 - 1 ft bgs.	
		Surface Casing Material:	In place		
		TIME LOG			
		Abandonment	Started 11-Nov-14	Completed 12-Nov-14	

Environmental Engineers & Scientists

Project: TNT Red Sta	ar	Loca	tion: Kirkwood, NY		Well No.: MW-3D	
					Permit No.:	
TOC elev.:	_					
TOC elev.:						
			SUMMARY			
			Drilling Company:	: Trec Env. Contracting	Drillers: Jim Apgar	
			Water Leve			
			Casing Material:		Diameter: 2-in.	
			Screen Size:		Diameter: 2-in.	
			Slot Size: Filter Pack:		Setting: 43 - 48 ft. bgs Setting:	
				: Cement Bentonite	Setting.	
			Grout Setting:		Setting: 1 - 48 ft.	
			Surface Seal:		Settting: 0 - 1 ft bgs.	
			Surface Casing Material:		<u> </u>	
			·			
1						
	<del></del>		TIME LOG			
				Chambad	Completed	
			Abandonment	Started	Completed 12-Nov-14	
			Abandoninen	[ [ [ ] -   100   -   14	12-1100-14	

Environmental Engineers & Scientists

Project: 1	TNT Red Star		Loca	ition: Kirkwood, NY		Well No.: M	W-4
						Permit No.:	***************************************
TOC elev.:		-					
т	ΓOC elev.:						
<b>'</b>	I GO CICVII			SUMMARY			
				Deilling Commun.	Tron Env. Contracting	Drilloro: li	m Anger
				Drilling Company:	Trec Env. Contracting	Drillers: <u>Ji</u>	ті Аруаі
				Water Level	1 7.85 ft. bas		
		-		Casing Material:	PVC	Diameter: 2-	
				Screen Size:		Diameter: 2-	-in.
				Slot Size: Filter Pack:		Setting: Setting:	
					Cement Bentonite	Octung.	
				Grout Setting:	1 ft. bgs	Setting:	
				Surface Seal:		Settting: 0	- 1 ft bgs.
				Surface Casing Material:	In place		
				TIME LOG			
					Started	C	ompleted
				Abandonment			2-Nov-14
	L						

Environmental Engineers & Scientists

Project: TNT Red Star	Loca	ation: Kirkwood, NY	Well No.: MW-5 Permit No.:
TOC elev.:	-		
TOC elev.:		SUMMARY	
		Drilling Company: Trec Env. Contracting	Drillers: <u>Jim Apgar</u>
		Water Level 8.6 ft. bgs	Discourt of 2 is
		Casing Material: PVC Screen Size: PVC	Diameter: 2-in. Diameter: 2-in.
		Slot Size: 0.01	Setting:
		Filter Pack: Sand	Setting:
		Grout Material: Cement Bentonite	Cotting
		Grout Setting: 1 ft. bgs Surface Seal: Concrete	Setting:
		Surface Casing Material: Removed	Getting. 0 - 1 1t bgs.
		dilidoo dadiilig indication	
-			
-		TIME LOG	
		Started Abandonment 11-Nov-14	Completed 12-Nov-14
-			

Environmental Engineers & Scientists

Project: TNT Red Star	Locati	ion: Kirkwood, NY	14-14-14-14-14-14-14-14-14-14-14-14-14-1	Well No.: Permit No.:	
FOC elev.:					
TOC elev.:					
TOC elev		SUMMARY			
		Drilling Company:	Trec Env. Contracting	Drillers:	Jim Apgar
		Water Level			
		Casing Material:	PVC	Diameter:	
		Screen Size:		Diameter:	
		Slot Size:		Setting:	
		Filter Pack:	Bentonite Pellets	Setting:	
			Cement Bentonite	Setting:	
		Grout Setting:		Setting:	
		Surface Seal:	Concrete		05 ft bgs.
		Surface Casing Material:		Jetting.	05 It bgs.
		Surface Casing Material.	Removed		
=	-	TIME LOG			
	<b>-</b>	TIVIE LOG			
	-     -	Abandonment	Started 12-Nov-14		Completed 12-Nov-14
	- -				
	_				

Environmental Engineers & Scientists

Project: TNT Red Star	Loca	tion: Kirkwood, NY		Well No.: PW-4 Permit No.:	
TOC elev.:	-				
TOC elev.:					
		SUMMARY			
		Drilling Company:	Trec Env. Contracting	Drillers: <u>Jim Apgar</u>	
			10.1 ft. bgs		
	1.1	Casing Material:	PVC	Diameter: 2-in.	·····
		Screen Size:	PVC	Diameter: 2-in.	
		Slot Size:		Setting:	
		Filter Pack:		Setting:	
			Cement Bentonite		
		Grout Setting:		Setting:	
	·	Surface Seal:	Concrete	Settting: 0 - 1 ft bgs.	
		Surface Casing Material:	In place		
		ū			
-		TIME LOG			
-		Abandonment	Started 11-Nov-14	Completed 12-Nov-14	
-					
-					
-					
-	<u> </u>				
L					

Environmental Engineers & Scientists

Project:	TNT Red Star	Location: Kirkwood, N	,	Well No.: PW-7 Permit No.:
TOC elev.:		-		
	TOC elev.:	OLIMBIA DV		
		SUMMARY  Drilling Co	mpany: Trec Env. Contracting	Drillers: <u>Jim Apgar</u>
			er Level	
			Naterial: PVC	Diameter: 1-in.
			en Size: PVC	Diameter: 1-in.
			ot Size: 0.01	Setting:
			er Pack: Sand	Setting:
			Material: Bentonite Pellets	Setting:
			Material: Cement Bentonite	
			Setting: 1 ft. bgs	Setting:
			ce Seal: Concrete	Settting: 05 ft bgs.
			Material: Removed	
		TIME LOG		
		=	Otested	Constituted
	-	—   Ahand	Started	Completed
		TIME LOG  Aband	onment 12-Nov-14	<u>12-Nov-14</u>

Environmental Engineers & Scientists

Project:	TNT Red Star		Location: Kirkwood, NY		Well No.: PW-9 Permit No.:	
					remmino	
TOC elev.:						
100 cicv		-				
	TOC elev.:					
			SUMMARY			
			Drilling Co	mpany: Trec Env. Conf	racting Drillers: Jim Apg	jar
						<u> </u>
			Wate	er Level		
			Casing N	Naterial: PVC	Diameter: 1-in.	
			Scree	en Size: PVC	Diameter: 1-in.	
				ot Size: 0.01	Setting:	
				er Pack: Sand Material: Bentonite Pelle	Setting: ts Setting:	
				Material: Cement Benton		
			Grout	Setting: 1 ft. bgs	Setting:	
				ce Seal: Concrete	Settting: 0 - 1 ft b	gs.
	-	<del>-</del>	Surface Casing N	Naterial: Removed		
	-	<del></del>				
			TIME LOG			
	_					
	-			Started	Comple	tod
	-		Ahand	onment 12-Nov-14	12-Nov	
			Abana	011111011 12 1101 11		
	-					

## ATTACHMENT 2 Photographs



**Grouting Monitoring Well GP-2** 



Well from GP-2.



Monitoring Well GP-2.



Monitoring Well PW-4 being removed.



Monitoring Well PW-4 being removed.



Monitoring Well PW-4 grouting.



MW-5 being removed.



Pulling MW-5.



Monitoring Well GP-2 being removed.



Monitoring Well PW-4 completed.



Preparing Monitoring Well MW-3 for removal.



Puncturing bottom on MW-3D



Monitoring Well MW-1 grouting.



Well removal from MW-1.



Monitoring Well MW-1.





#### Monitoring Well Abandonment Project Kirkwood, New York



### APPENDIX E Chronological List of Approved Documents

### **Chronological List of Approved Documents**

#### **Consent Orders (CO)**

RI/FS CO: Index # B7-0521-97-09, executed August 20, 1998 RD/RA CO: Index # B7-0521-97-09, executed August 10, 2007

Except for the review and approval of an Environmental Easement (EE) and Final Engineering Report (FER), the following documents fulfill the requirements of the Consent Order:

Addressed both on-site and off-site contaminants at the site.

Monthly Progress Reports (95 reports to date)

October 24, 1991, 10 point Soil Vapor Study Investigation,

August 20, 1998 signed Consent Order

September 18, 1998 Records Search Report

November 1998 Remedial Investigation/Feasibility Study Work Plan (RI/FSWP)

November 9, 1999 Soil Gas Results Under Garage

October 2000 Remedial Investigation/Feasibility Study (RI/FS) Report

February 23, 2001 Record of Decision (ROD)

October 19, 2005 Groundwater Sampling and Analytical Results

February 2006 Bioremediation Bench Test Study Work Plan

March 14, 2006 Soil Vapor and Indoor Air Sampling Work Plan

May 2006 Vapor Intrusion Study Report

July 2006 Bioremediation Bench Test Study Report

August 2006 Off-Site Soil Vapor Sampling Work Plan

August 2006 Bioremediation Pilot Field Study Work Plan

September 20, 2006 Seasonal Ambient/Indoor Air Sampling Work Plan Addendum

September 25-27, 2006 Bioremediation Injections

October 18, 2006 Off-Site Soil Vapor Sampling Report

December 14, 2006 Seasonal Indoor Air Sampling Results

January 2, 2007 Sub-Slab and Indoor Air Sampling WP (Harris Assembly and Garage).

February 2007 Bioremediation Pilot Field Study

February 14, 2007 HRC Injection and Monitoring Report

April 17, 2007 HRC Injection and Monitoring Report

April 19, 2007 Seasonal Indoor Air Sampling- Spring 2007 Results

July 24, 2007 Explanation of Significant Difference (ESD)

July 30 2007 HRC Injection and Monitoring Report

August 10, 2007 Signed Consent Order

October 2007 Remedial Design Work Plan (RDWP)

October 19, 2007 Groundwater Re-Injection Pilot Study Work Plan

November 30, 2007 Waste Sampling and Drum Removal Report

January 22, 2008 Remedial Action Work Plan (RAWP)

February 13, 2008 Groundwater Sampling Results

March 18, 2008 HRC-Advanced Bioremediation Injections

March 2009 Groundwater Sampling Data Report

June 18, 2009 Groundwater Sampling Data Report
June 8, 2010 Groundwater Sampling Data Report
June 30, 2010 Re-Sampled Groundwater Data Report
July 27, 2010 Groundwater Sampling Work Plan for 10 one inch temporary wells
October 13, 2013 Addendum to the RAWP, Oil/Water Separator Decommissioning
October 22, 2013 Normalized Graphs and Trend Lines Submission
May 14, 2014 Groundwater Sampling Results
December 1, 2014 Well Decommissioning Letter Report
February 10, 2015 Oil/water Separator Decommissioning Letter Report
April 20, 2015 Site Management Plan Approved

# APPENDIX F Material Safety Data Sheet for Zep Brake Cleaner

Printing date: 01/05/04



**ZEP Manufacturing Company** Acuity Specialty Products Group, Inc. P.O. Box 2015 Atlanta, GA 30301 1-877-I-BUY-ZEP

### **Material Safety Data Sheet**

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification Product name

ZEP BRAKE PARTS CLEANER

**Product Use** 

Aerosol Brake Parts Cleaner and Degreaser

**Product Code** 

0184

01/05/04

Supersedes 02/14/00

Date of issue

**Emergency For MSDS Information:** 

Telephone Acuity Specialy Products Group, Inc.

Numbers

Compliance Services 1-877-I-BUY-ZEP

For Medical Emergency:

**INFOTRAC** 

(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency:

CHEMTREC

(800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

Prepared by Compliance Services Group

Acuity Specialty Products Group 1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Composition, Information on Ingredient Name of Hazardous Ingredients	CAS#	1% by Weight	Exposure Limits
TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	45-55	ACGIH TLV (United States, 1989). TWA: 50 ppm 8 hour(s). STEL: 100 ppm 15 minute(s). OSHA PEL (United States, 1989).
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	127-18-4	45-55	TWÁ: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s). ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). STEL: 100 ppm 15 minute(s).

#### Section 3. Hazards Identification

**Acute Effects** 

Routes of Entry Absorbed through skin. Inhalation. Ingestion.

Skin

Hazardous in case of skin contact. Non-sensitizer for skin. Skin inflammation is

characterized by itching, scaling, reddening, or, occasionally, blistering.

Eyes

Hazardous in case of eye contact. Inflammation of the eye is characterized by redness,

watering, and itching. Liquid in eye may cause irritation with possible damage if not rinsed

immediately.

Inhalation Hazardous in case of inhalation. Over-exposure by inhalation may cause respiratory irritation.

Can cause CNS depression. Inhalation of vapor/aerosol concentrations above the

recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. Prolonged repeated exposure may cause chemical pneumontitis.

Medical Conditions Aggravated by Overexposure: Respiratory, Heart (Cardiac).

Ingestion Aspiration hazard if swallowed- can enter lungs and cause damage.

Carcinogenic Effects

Tetrachloroethylene, Trichloroethylene: Classified 2A (Probable for human.) by IARC, and Group 2

(Reasonably Anticipated To Be Human Carcinogens.) by NTP

**Chronic Effects** 

The substance may be toxic to kidneys, liver, central nervous system (CNS), and heart. Repeated or prolonged exposure to the substance can produce target organs damage. Defatting to the skin.

Prolonged skin contact may cause dermatitis with drying and cracking of skin.

See Toxicological Information (section 11)

Product Code 0184

Material Safety Data Sheet

Product Name ZEP BRAKE PARTS CLEANER

Section 4. First Aid Measures

**Eye Contact** 

Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get

medical attention.

Skin Contact

Wash contaminated skin with soap and water. Get medical attention if irritation develops. Wash clothing

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

Ingestion

oxygen. Get medical attention. Aspiration hazard if swallowed- can enter lungs and cause damage. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical

attention immediately.

Section 5. Fire Fighting Measures

Flash Point

Not applicable.

Flammable Limits Not applicable.

Flammability

Non-flammable. (CSMA)

Fire Hazard

Fire-Fighting Procedures

Container explosion may occur under fire conditions or when heated.

Use dry chemical or CO2. Cool closed containers exposed to fire with water. Wear special protective clothing and positive pressure,

self-contained breathing apparatus.

Section 6. Accidental Release Measures

Large spills are unlikely due to packaging. Spill Clean up

Section 7. Handling and Storage

Avoid breathing vapors or spray mists. Avoid contact with eyes, skin and clothing. Watch for accumulation in low

Storage

Eyes

Handling

Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F). Keep away from heat and direct sunlight. Keep away from incompatibles. Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Personal Protection It is generally recognized that contact lenses should not Protective Clothing (Pictograms)

Safety glasses. be worn when working with chemicals because contact lenses may

contribute to the severity of an eye injury.

Body

Chemical resistant gloves. (Viton) Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is

inadequate.

Section 9. Physical and Chemical Properties

Physical State

Liquid. (Aerosol.)

pH

Not applicable.

**Boiling Point** 

Solubility

87.2°C (189°F)

Specific Gravity 1.53 (Water = 1)

Insoluble in cold water, hot water.

Odor Solvent-like. Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate >1 compared to Butyl acetate.

Color Clear. Colorless.

VOC (Consumer) 45.0% 689 g/l

Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Incompatibility

Reactive with oxidizing agents, metals, acids, alkalis.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride (HCl), Chlorine and

Phosgene Gas.

Section 11. Toxicological Information

**Toxicity to Animals** 

Trichloroethylene:

ORAL (LD50):

Acute: 4920 mg/kg [Rat]. 2402 mg/kg [Mouse]. Acute: 29800 mg/kg [Rabbit].

DERMAL (LD50):

Perchloroethylene:

ORAL (LD50):

Acute: 2629 mg/kg [Rat.].

DERMAL (LD50):

Acute: 10000 mg/kg [Rabbit.].

Product Code 0184

Material Safety Data Sheet

Product Name ZEP BRAKE PARTS CLEANER

Section 12. Ecological Information

**Ecotoxicity** 

Information

Not available.

Biodegradable/OECD

Not available.

Section 13. Disposal Considerations

Waste

Waste must be disposed of in accordance with federal, Waste Stream Code: D039, D040 state and local environmental control regulations.

Classification: - (Hazardous waste.)

Origin: - (RCRA waste.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name

Consumer Commodity

**DOT Classification** 

ORM-D

UN number Not regulated.

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Trichloroethylene

Tetrachloroethylene

Clean Water Act (CWA) 311: Trichloroethylene RQ 100 lbs. (45.36 kg)

Clean air act (CAA) 112 regulated toxic substances: Trichloroethylene; Tetrachloroethylene

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# **APPENDIX G**Original Spill Response Waste Disposal Documentation

## ilpstate Laboratories inc.

Shipping: 6034 Corporate Drive • East Syracuse, New York 13057 • (315) 437-0255 \_ Mailing: Box 289 • Syracuse, New York 13206 Southern Region (607) 724-0478 Western Region (716) 436-9070

March 25, 1991

Mr. Robert A. Clarkson Allwash of Syracuse, Inc. P.O. Box 605 Syracuse, New York 13201

Re: Analysis Report #022891022 - Red Star Express (Amended)

Dear Mr. Clarkson:

Please find enclosed the amended results for your soil sample which was collected by ULI personnel on January 31, 1991.

We have now included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Stata

Director

AJS/clc

Enclosure: report

cc/enc: N. Scala, ULI

file

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Upstate Laboratories, Inc. Analysis Results

Report Number: 022891022

Client I.D.: ALLWASH OF SYRACUSE

Sampled by: ULI

APPROVAL: QS Lab I.D.: 10170

RED STAR EXPRESS

EXCAVATED SOILS-CONKLIN, NY 1/31/91 1430H GC

		EXCAVATED SOILS-CONKLIN,	NY 1/31/91 1430H GC
_	ULI I.D.: 03291062	Matrix: Soil	
	PARAMETERS	RESULTS	KEY
	pН		
	Flash Point	8.5SU	
	Reactive Sulfide	>60degC	
	Reactive Cyanide	120mg/kg	
TCL	P Arsenia by furnament	<1mg/kg	
TCL	Turingce method	<0.01mg/l	
TCLE		0.8mg/l	*
TCLE		<0.005mg/1	
TCLE		<0.05mg/1	
TCLF		0.04mg/l	
TCLF		<0.1mg/l	
TCLP		0.0006mg/l	
TCLP	Dy Lulliace mellion	<0.002mg/1	01
TCLP		<0.05mg/1	O1
	Semi-Volatiles	0.041mg/l	
TCLP	 0-Cresol	Sec. 1997	
TCLP		<50ug/1	05
TCLP		<100ug/l	05
TCLP	- 1	<100ug/l	05
TCLP	- / - / o TTTCIITOTODIIEIIOI	<50ug/1	05
TCLP	- / - / o rrrontondifellol	<50ug/1	05
TCLP	- /	<50ug/1	05
TCLP		<50ug/1	05
TCLP	Hexachloroethane	<50ug/1	05
7.000		<50ug/1	05
TCLP	Volatiles		
TCLP	Carbon Tetrachloride		
TCLP	Chlorobenzene	<30ug/1	05
TCLP	Methyl Ethyl Ketone	<30ug/1	05
TCLP	Tetrachloroethylene	<100ug/1	05
TCLP	Trichloroethylene	1000ug/1	05 🗸
TCLP	Benzene	<30ug/1	05
TCLP	Chloroform	<30ug/1	05
TCLP	1,2-Dichloroethane	<30ug/1	05
TCLP	1,1-Dichloroethylene	<30ug/1	05
TCLP	1,4-Dichlorobenzene	<30ug/1	05
TCLP	Vinyl Chloride	<30ug/1	05
V2		<30ug/1	05
11 recults			

ll results are on an as rec.d basis unless otherwise stated.

Upstate Laboratories, Inc. Analysis Results Report Number: 022891022 Client I.D.: ALLWASH OF SYRACUSE Sampled by: ULI

APPROVAL: Q C Lab I.D.: 10170

RED STAR EXPRESS

<10mg/kg

<10mg/kg

<10mg/kg

120mg/kg

<10mg/kg

EXCAVATED SOILS-CONKLIN, NY 1/31/91 1430H GC

KEY ---

ЛІ I.D.	: 03291062	 _	 	_	-	-	_	-,-,-	
								Matrix:	So

DADAMERTO	Matrix: Soil
PARAMETERS	RESULTS
EPA 8240	
Acetone	
Acrolein	<30mg/kg
Acrylonitrile	<300mg/kg
2-Butanone	<300mg/kg
Carbon Disulfide	<30mg/kg
1,4-Dichloro-2-butene	<30mg/kg
Ethanol	<30mg/kg
Ethyl Methacrylate	<300mg/kg
2-Hexanone	<30mg/kg
Iodomethane	<30mg/kg
4-Methyl-2-pentanone	<30mg/kg
Styrene	<30mg/kg
1,2,3-Trichloropropane	<30mg/kg
Vinyl Acetate	<30mg/kg
Chloromethane	<30mg/kg
Bromomethane	<10mg/kg
Vinyl Chloride	<10mg/kg
Chloroethane	<10mg/kg
Methylene Chloride	<10mg/kg
Trichlorofluoromethane	<10mg/kg
1,1-Dichloroethylene	<10mg/kg
t-1,2-Dichloroethylene	<10mg/kg
1,1-Dichloroethane	<10mg/kg
Chloroform	<10mg/kg
1,2-Dichloroethane	<10mg/kg
1,1,1-Trichloroethane	<10mg/kg
Benzene	<10mg/kg
Carbon Tetrachlorida	<10mg/kg
1,2-Dichloropropage	<10mg/kg
Diomodichloromethana	<10mg/kg
Trichloroethylene	<10mg/kg
C-1,3-Dichloropropos	<10mg/kg
o 1/3-Dichioropropose	<10mg/kg
-/-/2-IIIChloroethano	<10mg/kg
Toluene	<10mg/kg

<10mg/kg results are on an as rec.d basis unless otherwise stated.

Dibromochloromethane

2-Chloroethylvinyl ether

Tetrachloroethylene

Chlorobenzene

Upstate Laboratories, Inc. Analysis Results Report Number: 022891022 Client I.D.: ALLWASH OF SYRACUSE Sampled by: ULI

APPROVAL: 098 QC:\_\_\_\_MF Lab I.D.: 10170

RED STAR EXPRESS

EXCAVATED SOILS-CONKLIN, NY 1/31/91 1430H GC

fred pl. OFT		10170
ULI I.D.: 03291062	EXCAVATED SOILS-CONKLIN, N	Y 1/31/91 14
PARAMETERS	Matrix: Soil	
7	RESULTS	
Ethylbenzene		KEY
Bromoform	<10mg/kg	
1,1,2,2-Tetrachloroethane	<10mg/kg	
-/~ Dicilioropenzana	<10mg/kg	
1,3-Dichlorohenzana	<10mg/kg	
1,4-Dichlorohenzeno	<10mg/kg	
Total Xvlenes	<10mg/kg	<b>8</b> 3
Dichlorodifluoromoth	<10mg/kg	
Dibromomethane	<30mg/kg	
All results and	<30mg/kg	

<30mg/kg All results are on an as rec.d basis unless otherwise stated.

#### KEY PAGE

- 1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
- MATRIX INTERFERENCE
- 3 PRESENT IN BLANK
- 4 INSUFFICIENT SAMPLE
- 5 SAMPLE DILUTED
- 6 BLANK CORRECTED
- HEAD SPACE PRESENT IN SAMPLE 7
- 8 BDL(BELOW DETECTION LIMITS)
- MDL(METHOD DETECTION LIMITS) 9
- 10 ADL(AVERAGE DETECTION LIMITS)
- 11 PQL(PRACTICAL QUANTITATION LIMIT)
- 12 SAMPLE ANALYZED OVER HOLDING TIME
- 13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE OR VALUES WITHIN EXPERIMENTAL ERROR
- 14 PPM(PARTS PER MILLION)
- 15 MG/L(MILLIGRAMS PER LITER)
- 16 UG/L(MICROGRAMS PER LITER)
- 17 PPB(PARTS PER BILLION)
- 18 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/TOTAL XYLENES INCLUDE O, M, AND P
- 19 CALCULATION BASED ON DRY WEIGHT
- 20 SAMPLE DILUTED/TOTAL XYLENES INCLUDE O, M, AND P
- 21 TOTAL XYLENES INCLUDE O, M, AND P/NON-POTABLE WATER SOURCE
- 22 MG/KG AS REC.D / MG/KG DRY WT
- 23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
- 24 SAMPLE DILUTED/BLANK CORRECTED
- 25 ND (NON-DETECTED)
- 26 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/BLANK CORRECTED
- 27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
- 28 FIELD PARAMETER TO BE PROVIDED ON DISC
- 29 TOTAL XYLENES INCLUDE O, M, AND P
- 30 METHOD PERFORMANCE STUDY HAS NOT BEEN COMPLETED/ND(NON-DETECTED)
- 31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
- 32 SAMPLE WEATHERED
- 33 NON-POTABLE WATER SOURCE
- 34 INDIVIDUAL AROCLORS DO NOT CARRY A DETECTION LIMIT BUT ARE INCLUSIVE TO THE TOTAL PCB CONTENT
- 35 TOTAL XYLENES INCLUDE O, M, AND P/NON-POTABLE WATER SOURCE/SAMPLE

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INC.
ABORATORIES,
UPSTATE 1

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DE WE 2/22/91 CAS GO	F3 / F3	Jas / bown sil	,	3 Sr.) A) les	12 sample locations	1 2 g ts of sample	given to allwash				Time Recolved by: (Signature,	ine Received by: (Signature)	-	
CHAIN OF CUSTODY RECORD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	x - x - x - x - x - x - x - x - x - x -								oy: (Signature) Reilnquisned oy: (Signature) Cate.	Reilnquisned py: (Signature) Date,	to Esperatory by: Date/Time Reserva	
E LABORATORIES, INC.	Allwash (Bob Clarkson) Red State Express Conkiin, NY	SAMPLE OATE TIME & G G STATION LOCATION	11/34/91 2:30 XXX Excavated 50:15							- 10 - 11	Signature) Detertime Recsived	(Signature) Detection Regained	H-3/-7/   1800 (51 gnstur	片

WEATHER CONDITIONS:



# SYRACUSE, INC.

P.O. BOX 605, SYRACUSE, NEW YORK 13201 (315) 454-4476 P.O. BOX 15520, ROCHESTER, NEW YORK 14615 (716) 458-3950

January 18, 1991

Mr. Thomas Suozzo New York State Department of Environmental Conservation R.D. 1, Route 11 Box 1803 Kirkwood, New York 13795-9772

TNT Red Star Express Kirkwood Terminal

PCE Spill Cleanup Status

Dear Mr. Suozzo:

The purpose of this letter is to report on initial findings and status of our activities related to cleanup of the tetrachloroethylene (PCE) spill at the TNT Red Star Express Terminal in Kirkwood.

#### Soil Test Results

Following excavation of contaminated soils, a series of soil samples were taken to document residual PCE levels. Results are summarized below.

	Number	PCE Conce (ppm wet <u>Range</u>	entration weight) <u>Average</u>
Loading dock excavation bottom soils	6	2.6-29.0	14.6
Loading dock excavation sidewall soils	3	.2292	.59
Parking lot excavation bottom soils	5	"Oy734	.16

Copies of analytical reports will be forwarded when they become available.

Ar. Thomas Suozzo New York State Department of Environmental Conservation Page 2

#### Soil Venting

As you are aware, soil vent pipes were installed in both excavations prior to backfilling. The system adjacent to the loading dock will be continuously ventilated through a vacuum pump beginning next week. Arrangements are being made to document PCE levels in the extract vapor on a regularly scheduled basis. Resulting data will be used to evaluate progress of the remedial effort. Plans for final confirmatory soil sampling will be developed by the Owner's consultant, Ecology and Environment, Inc., at a later date.

#### Waste Disposal

A considerable effort has been made to evaluate disposal requirements for various wastes which have been generated as a result of the spill cleanup effort. Soil and debris contaminated with PCE (approximately 80 yards) is the most significant waste stream. An initial determination has been made through consultation with EPA and NYSDEC representatives that this material is subject to the national capacity variance under land disposal restrictions and may be landfilled at a permitted facility until May, 1992 (40 CFR 268.35 Plans are being made to obtain waste profile samples of excavated material for testing and submittal to prospective disposal facilities. Drummed wastes (PCE contaminated sorbents, polyethylene, protective equipment) will be scheduled for incineration at an approved facility.

Please call me if you have any questions or comments concerning this submittal.

Sincerely,

Robert A. Clarkson

Environmental Engineer

RAC: uh

cc: Mr. David Sanders, TNT Red Star

Mr. Andrew Raiano, TNT Red Star Mr. James Griffis, Ecology & Environment

Mr. Michael Oliver, WTS

# **APPENDIX H November 30, 2007 Drummed Waste Removal Letter Report**

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

Remedial Bureau B

625 Broadway, Albany, New York 12233-7016 **Phone:** (518) 402-9774 • **FAX:** (518) 402-9773

Website: www.dec.state.ny.us



December 4, 2007

Mr. Samuel Borruso Town of Kirkwood Buildings & Code Enforcement 41 Francis Street Kirkwood, NY 13795

Re:

Former TNT Red Star Express Site

NYSDEC Site No. 704028

Kirkwood, Broome County, New York

**Removal of Drummed Waste** 

Dear Mr. Borruso:

The New York State Department of Environmental Conservation (NYSDEC) has received the attached summary of the activities associated with the removal of five drums of miscellaneous waste at the Former TNT Red Star Express Site in Kirkwood, New York. NYSDEC has reviewed this summary entitled "Follow-up to the Waste Sampling and Removal" by Leader Professional Services, dated November 30, 2007.

The Former TNT Red Star Express Site is a Class 2 Inactive Hazardous Waste Disposal Site, however, the disposal of the five drums of miscellaneous waste is not related to the on-site groundwater remediation project. Based on a NYSDEC review of the sampling data and disposal documents provided by YRC Worldwide Enterprise Services, Inc. and Leader Professional Services, the five drums of waste have been properly characterized and disposed/recycled.

If you have any questions please contact me at (518) 402-9774.

Sincerely,

John Durnin P.E.

**Environmental Engineer 2** 

July 100 P.F

Remedial Bureau B. Section B

Division of Environmental Remediation

cc:

Mr. Steve Shinners

ecc: Peter von Schondorf, Leader Professional Services

J. Quinn, DER, RBB

J. Okesson, NYSDEC Region 7

#### Leader Professional Services, Inc.

271 Marsh Road, Suite 2 Pittsford, New York 14534

250.015

November 30, 2007

(585) 248-2413 (585) 248-2834 (Fax) www.leaderlink.com



Mr. Michael Lewis Blymyer Engineers, Inc. 1829 Clement Avenue Alameda, California 94501

Re:

Follow -up to the Waste Sampling and Removal

Former TNT Red-Star Express Site and

Kirkwood, New York

Dear Mr. Lewis:

Leader Professional Services, Inc. ("Leader") has completed the removal of the drums located on the above referenced property. The following is a summary of the activities completed.

#### Summary

Leader opened each of the five drums and found four drums of soil, gravel, and asphalt pieces. The fifth drum contained parts of truck or forklift batteries. The batteries did not contain any liquids. The drums were cut up and the soil placed on plastic sheeting where it was piled and sampled. Since there was little difference between the soils in the drums, one sample was collected for waste profiling and analyzed for RCRA Characteristic, RCRA volatile and semi-volatile organic compounds, RCRA Metals, and PCBs. The laboratory took a portion of the sample and prepared it using a zero-headspace toxicity characteristic leaching procedure ("TCLP") technique for the analysis of RCRA organic compounds and RCRA Metals. The results of these analyses are presented in Attachment 1 and showed the soil is not a RCRA hazardous waste in New York State.

The results of the soil sample analysis were submitted to the Broome County Landfill for approval. B&E Disposal Service provided a roll off box and hauling of the waste to the landfill. On November 14, 2007 Leader loaded the waste into the roll off box and the following day B&E Disposal delivered the waste to the Broome County Landfill. Attached is the landfill waste approval letter to B&E Disposal Service and a weight ticket for the load. The battery parts will be taken by DeCarolis Truck Rental Company (a tenant on the property) and recycled with their collection of discarded batteries.

Mr. Michael Lewis November 30, 2007 Page 2

Please feel free to call us at (585) 248-2413 if you have any questions or comments.

Very truly yours,

LEADER PROFESSIONAL SERVICES, INC.

Peter von Schondorf Senior Project Manager

Attachment

Waste Analysis



Tax I.D. 62-0814289

Est. 1970

Mr. Peter von Schondorf Leader Environmental 271 Marsh Road Suite 2

Pittsford, NY 14534

Report Summary

Wednesday November 07, 2007

Report Number: L317105 Samples Received: 10/27/07Client Project: 250.014

Description: USF Kirkwood

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not he tate to call.

Entire Report Reviewed By:

Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 07,2007

Mr. Peter von Schondorf Leader Environmental 271 Marsh Road Suite 2 Pittsford, NY 14534

October 27, 2007

ESC Sample # : L317105-01

Date Received : October 27, Description : USF Kirkwood

Site ID :

Sample ID

S-1

Project: 250.014

Collected By : Pete Von Schondorf Collection Date : 10/26/07 12:30

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Tir	ne	Ву	Dil
Ignitability	See Footnot	e	Deg. F		D93	11/01/07	0930	KPB	1
рН	8.1		su		9045D	10/29/07	1520	RMH	1
Paint Filter Test	See Footnot	e	96		9095B	11/01/07	0600	KPB	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg		9012B	11/01/07	1502	DTH	1
Reactive Sulf.(SW846 7.3.4.1)	BDL	25.	mg/kg		9034/90	11/01/07	0730	KPB	1
TCLP Extraction	-				1311	10/31/07	0952	MVE	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	11/01/07	0913	KMT	1
Arsenic Barium Cadmium Chromium Lead Selenium Silver	BDL 0.30 BDL BDL BDL BDL BDL	0.050 0.050 0.050 0.050 0.050 0.050 0.050	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	5.0 100 1.0 5.0 5.0 1.0	6010B 6010B 6010B 6010B 6010B 6010B 6010B	10/31/07 10/31/07 10/31/07 10/31/07 10/31/07 10/31/07 10/31/07	2030 2030 2030 2030 2030	LAT LAT LAT LAT LAT	1 1 1 1
TCLP ZHE Extraction	-				1311	10/30/07	1025	LJN	1
TCLP Volatiles Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,2-Dichloroethane 1,1-Dichloroethene 2-Butanone (MEK) Tetrachloroethene Trichloroethene Vinyl chloride Surrogate Recovery Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	0.050 0.050 0.050 0.25 0.050 0.050 0.50 0.	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	0.50 0.50 100 6.0 0.50 0.70 200 0.75 0.50	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07 10/30/07	1815 1815 1815 1815 1815 1815 1815 1815	HJG HJG HJG HJG HJG HJG HJG	1 1 1 1 1 1 1 1 1
TCLP Semi-Volatiles 1,4-Dichlorobenzene 2,4-Dinitrotoluene	BDL BDL	0.10 0.10	mg/l mg/l	7.5 0.13	8270C 8270C	11/07/07 11/07/07			

L317105-01 (IGNITABILITY) - Did Not Ignite @ 170 L317105-01 (PAINT) - Contains No Free Liquid

Page 2 of 12



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Peter von Schondorf Leader Environmental 271 Marsh Road Suite 2 Pittsford, NY 14534

November 07,2007

ESC Sample # : L317105-01

Date Received : October 27, 2007
Description : USF Kirkwood Description

Site ID :

Sample ID

Project: 250.014

Collected By : Pete Von Schondorf Collection Date : 10/26/07 12:30

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	Ву	Dil
Hexachlorobenzene	BDL	0.10	mq/l	0.13	8270C	11/07/07 125	9 CMJ	1
Hexachloro-1,3-butadiene	BDL	0.10	mg/l	0.50	8270C	11/07/07 125	9 CMJ	1
Hexachloroethane	BDL	0.10	mg/l	3.0	8270C	11/07/07 125	9 CMJ	1
Nitrobenzene	BDL	0.10	mg/l	2.0	8270C		9 CMJ	
Pyridine	BDL	0.10	mq/l	5.0	8270C	11/07/07 125	OMJ	1
m&p-Cresol	BDL	0.10	mg/l	400	8270C	11/07/07 125	CMJ	1
o-Cresol	BDL	0.10	mg/l	200	8270C	11/07/07 125	OMJ	1
Pentachlorophenol	BDL	0.10	mg/l	100	8270C	11/07/07 125	9 CMJ	1
2,4,5-Trichlorophenol	BDL	0.10	mg/l	400	8270C	11/07/07 125	CMJ	1
2,4,6-Trichlorophenol	BDL	0.10	mg/l	2.0	8270C	11/07/07 125	OMJ	1
Surrogate Recovery			-					
Nitrobenzene-d5	66.4		% Rec.		8270C		CMJ	
2-Fluorobiphenyl	77.4		% Rec.		8270C		CMJ	
p-Terphenyl-d14	86.1		% Rec.		8270C		CMJ	
Phenol-d5	13.5		% Rec.		8270C		CMJ	
2-Fluorophenol	18.9		% Rec.		8270C		CMJ	
2,4,6-Tribromophenol	50.4		% Rec.		8270C	11/07/07 125	CMJ	1

BDL - Below Detection Limit Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

The reported analytical results relate only to the sample submitted.

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. Reported: 11/07/07 15:22 Printed: 11/07/07 15:39 L317105-01 (IGNITABILITY) - Did Not Ignite @ 170 L317105-01 (PAINT) - Contains No Free Liquid



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 07,2007

Mr. Peter von Schondorf Leader Environmental 271 Marsh Road Suite 2 Pittsford, NY 14534

ESC Sample # : L317105-02

Date Received : October 27, 2007
Description : USF Kirkwood

Site ID :

Sample ID

S-1

Project # : 250.014

Collected By : Pete Von Schondorf Collection Date : 10/26/07 12:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.8	0.100	%	2540G	11/01/07	1
Polychlorinated Biphenyls PCB 1016 PCB 1221 PCB 1232 PCB 1242 PCB 1248 PCB 1254 PCB 1260	BDL BDL BDL BDL BDL BDL BDL	0.021 0.021 0.021 0.021 0.021 0.021 0.021	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	8082 8082 8082 8082 8082 8082 8082 8082	11/01/07 11/01/07 11/01/07 11/01/07 11/01/07 11/01/07	1 1 1 1 1 1
PCBs Surrogates Decachlorobiphenyl Tetrachloro-m-xylene	79.7 96.3		% Rec. % Rec.	8082 8082	11/01/07 11/01/07	1 1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 11/07/07 15:22 Printed: 11/07/07 15:39

#### Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L317105-01	Phenol-d5 2-Fluorophenol	J2 J2

#### Attachment B Explanation of QC Qualifier Codes

Qualifier

Meaning

J2

Surrogate recovery limits have been exceeded; values are outside lower control limits

#### Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

#### Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

  Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

  Control Limits (AQ) (SS)

  2-Fluorophenol 31-119 Nitrobenzene-d5 43-118 Dibromfluoromethane 68-128 64-125 Phenol-d5 12-134 2-Fluorobiphenyl 45-128 Toluene-d8 76-115 69-118 2.4.6-Tribromophenol 51-141 Terphenyl-d14 43-137 4-Bromofluorobenzene 79-127 61-134

Terphenyl-d14 4-Bromofluorobenzene 79-127 61-134 43-137 2,4,6-Tribromophenol 51-141

 Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

### Summary of Remarks For Samples Printed 11/07/07 at 15:39:06

TSR Signing Reports: 044 R5 - Desired TAT

Sample: L317105-01 Account: LEADERPNY Received: 10/27/07 09:00 Due Date: 11/02/07 00:00 RPT Date: 11/07/07 15:22

Sample: L317105-02 Account: LEADERPNY Received: 10/27/07 09:00 Due Date: 11/02/07 00:00 RPT Date: 11/07/07 15:22



Tax I.D. 62-0814289

Est. 1970

Leader Environmental Mr. Peter von Schondorf 271 Marsh Road Suite 2

Pittsford, NY 14534

Quality Assurance Report Level II

L317105

November 07, 2007

		Laboratory Bla		Batch	
Analyte	Result	Units	Date Analyzed		
рН	7.10	su	10/29/07 15:20	WG327619	
Reactive Sulf.(SW846 7.3.4.1)	< 25	mg/kg	11/01/07 07:30	WG327918	
	. 105	/ 1	11/01/07 14:55	WG327919	
Reactive CN (SW846 7.3.3.2)	< .125	mg/kg	11/01/07 14.55	WG327313	
PCB 1016	< .017	mg/kg	10/31/07 11:40 10/31/07 11:40	WG327926 WG327926	
PCB 1221 PCB 1232	< .017 < .017	mg/kg mg/kg	10/31/07 11:40	WG327926	
PCB 1242	< .017	mg/kg	10/31/07 11:40	WG327926 WG327926	
PCB 1248 PCB 1254	< .017 < .017	mg/kg mg/kg	10/31/07 11:40 10/31/07 11:40	WG327926 WG327926	
PCB 1254 PCB 1260	< .017	mg/kg	10/31/07 11:40	WG327926	
1 1 Dichleresthere	< .05	mg/l	10/30/07 13:13	WG327942	
1,1-Dichloroethene 1,2-Dichloroethane	< .05	mg/l	10/30/07 13:13	WG327942	
2-Butanone (MEK)	< .5	mg/l	10/30/07 13:13	WG327942 WG327942	
Benzene Carbon tetrachloride	< .05 < .05	mg/l mg/l	10/30/07 13:13 10/30/07 13:13	WG327942 WG327942	
Chlorobenzene	< .05	mg/l	10/30/07 13:13	WG327942	
Chloroform	< .25 < .05	mg/l mg/l	10/30/07 13:13 10/30/07 13:13	WG327942 WG327942	
Tetrachloroethene Trichloroethene	< .05	mg/l	10/30/07 13:13	WG327942	
Vinyl chloride	< .05	mg/l	10/30/07 13:13	WG327942	
Total Solids	< .1	96	11/01/07 09:46	WG328126	
	< .0002	2 mg/l	11/01/07 08:38	WG328270	
Mercury					
Arsenic	< .05 < .05	mg/l mg/l	10/31/07 19:17 10/31/07 19:17	WG328276 WG328276	
Barium Cadmium	< .05	mg/l	10/31/07 19:17	WG328276	
Chromium	< .05	mg/l	10/31/07 19:17	WG328276 WG328276	
Lead Selenium	< .05 < .05	mg/l mg/l	10/31/07 19:17 10/31/07 19:17	WG328276	
Silver	< .05	mg/l	10/31/07 19:17	WG328276	
	< .1	nnm	11/07/07 12:40	WG329016	
1,4-Dichlorobenzene 2,4,5-Trichlorophenol	< .1	ppm ppm	11/07/07 12:40	WG329016	
2,4,6-Trichlorophenol	< .1	ppm	11/07/07 12:40	WG329016	
2,4-Dinitrotoluene	< .1 < .1	ppm ppm	11/07/07 12:40 11/07/07 12:40	WG329016 WG329016	
Hexachloro-1,3-butadiene Hexachlorobenzene	< :1	ppm	11/07/07 12:40	WG329016	
Hexachloroethane	< .1	ppm	11/07/07 12:40 11/07/07 12:40	WG329016 WG329016	
m&p-Cresol	< .1 < .1	mqq mqq	11/07/07 12:40	WG329016	
Nitrobenzene o-Cresol	< .1	ppm	11/07/07 12:40	WG329016	
Pentachlorophenol	< .1	ppm	11/07/07 12:40 11/07/07 12:40	WG329016 WG329016	
Pyridine	< .1	ppm	11/01/01 12.40	WGJZJUIU	
Analyte	Units	Duplicate Result Duplic	cate RPD Limit	Ref Samp	Batch
pH pH	su su	4.70 4.70 6.00 6.00		L316833-01 L317157-01	WG32761 WG32761
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	0.00 0.00	0.00 20	L317105-01	WG32791
Reactive CN (SW846 7.3.3.2)	mg/kg	0.00 0.00	0.00 20	L317105-01	WG32791
VETCTAE CM (PMO-10 1.2.2.7)	mg/ mg	2.22			



Tax I.D. 62-0814289

Est. 1970

Leader Environmental Mr. Peter von Schondorf 271 Marsh Road Suite 2

Pittsford, NY 14534

Quality Assurance Report Level II L317105

November 07, 2007

Paint Filter Test	%	0.00	0.00	0.00	20	L316777-07	WG328113
			icate		- 6 1		5 t 1
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch_
Ignitability	Deg.	0.00	0.00	0.00	20	ь317154-01	WG328114
Total Solids	િ	89.7	86.3	3.84	20	L317074-31	WG328126
Mercury	mg/l	0.00	0.00	0.00	20	L317220-06	WG328270
Arsenic	mg/l	0.00	0.00	0.00	20	L317288-01	WG328276
Barium	mg/l	0.204	0.200	1.98	20	L317288-01	WG328276
Cadmium	mg/l	0.00	0.00510	NA	20	L317288-01	WG328276
Chromium	mg/l	0.00		NA	20	L317288-01	WG328276
Lead	mg/l	2.03	2.00	1.49	20	L317288-01	WG328276
Selenium	mg/l	0.00	0.0159	NA	20	L317288-01	WG328276
Cilver	ma/l	0.00	0.00	0.00	20	L317288-01	WG328276

Selenium Silver	ma/l	0.00	0.00 0.00	20	L317288	
Analyte	Labor Units	atory Con Known Va	trol Sample l Result	% Rec	Limit	Batch
pH	su	9.14	9.10	99.6	85-115	WG327619
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	100	96.0	96.0	70-130	WG327918
Reactive CN (SW846 7.3.3.2)	mg/kg	161	98.7	61.3	50-150	WG327919
PCB 1260	mg/kg	.167	0.121	72.5	64-120	WG327926
1,1-Dichloroethene 1,2-Dichloroethane 2-Butanone (MEK) Benzene Carbon tetrachloride Chlorobenzene Chloroform Tetrachloroethene Trichloroethene Vinyl chloride Ignitability	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	.05 .05 .25 .05 .05 .05 .05 .05 .05	0.0526 0.0464 0.231 0.0477 0.0461 0.0535 0.0457 0.0519 0.0497 0.0481	105. 92.8 92.3 95.3 92.2 107. 91.5 104. 99.3 96.2	68-136 61-131 50-132 63-121 70-140 70-126 65-121 64-134 74-120 46-133	WG327942 WG327942 WG327942 WG327942 WG327942 WG327942 WG327942 WG327942 WG327942 WG327942
Total Solids	ę S	50	50.0	100.	85-115	WG328126
Mercury Arsenic Barium Cadmium Chromium Lead Selenium Silver	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	.003 1.13 1.13 1.13 1.13 1.13 1.13 1.13	0.00296 1.10 1.05 1.07 1.01 1.05 1.12 1.04	98.7 97.3 92.9 94.7 89.4 92.9 99.1 92.0	85-115 85-115 85-115 85-115 85-115 85-115 85-115	WG328270 WG328276 WG328276 WG328276 WG328276 WG328276 WG328276
1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene Hexachloro-1,3-butadiene Hexachlorobenzene Hexachloroethane m&p-Cresol Nitrobenzene	ppm ppm ppm ppm ppm ppm ppm ppm	.01 .01 .01 .01 .01 .01 .01 .01	0.00858 0.00871 0.00833 0.0106 0.00825 0.00860 0.00803 0.00673 0.00824	85.8 87.1 83.3 106. 82.5 86.0 80.3 67.3 82.4	39-122 41-131 41-132 53-139 36-116 50-136 42-113 36-116 44-119	WG329016 WG329016 WG329016 WG329016 WG329016 WG329016 WG329016 WG329016



Tax I.D. 62-0814289

Est. 1970

Leader Environmental Mr. Peter von Schondorf 271 Marsh Road Suite 2

Pittsford, NY 14534

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o-Cresol Analyte Pentachlorophenol Pyridine	ppm Lab Units	.01 oratory C Known	ontrol Sa	00809 mple		10.9	36-116	WG329016
Pentachlorophenol		oratory C	ontrol Sa	mple				
Pentachlorophenol		Mnown	ourton pe	шћте				
Pentachlorophenol	OHITCD		val ke	sult	용	Rec	Limit	Batch
		11101111						
	ppm	.01		00817		31.7	45-111	WG329016
yrrarne	ppm	.01	0.	00319		31.9	10-112	WG329016
*	Taborato	ry Contro	d Sample	Dunlicat	.е			
Analyte		LCSD Res		RPD	Limi	t %Rec	Batch	
Maryec						100		-10
DΗ	su	9.10	9,10	0.00	20	100	WG3276	313
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	96.0	96.0	0.00	20	96	WG3279	918
(eactive Suit. (Swo40 7.3.4.1)	mg/ kg							
Reactive CN (SW846 7.3.3.2)	mg/kg	96.2	98.7	2.57	20	60	WG3279	319
	/1	0.105	0.121	14.0	20	63	WG3279	926
PCB 1260	mg/kg	0.103	0.121	14.0	20		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, — -
1,1-Dichloroethene	mg/l	0.0614	0.0605	1.59	17	123	WG3279	
1,1-Dichloroethene	mg/l	0.0511	0.0525	2.76	17	102	WG3279	
l,2-Dichloroethane	mg/1	0.0531	0.0531	0.0294	15	106 94	WG3279 WG3279	
1,2-Dichloroethane	mg/l	0.0472	0.0481	1.81 14.5	21	103	WG3279	
2-Butanone (MEK)	mg/1	0.257 0.237	0.298 0.199	17.5	21	95	WG3279	942
2-Butanone (MEK)	mg/l mg/l	0.0520	0.0525	0.895	16	104	WG3279	
Benzene	mg/1	0.0476	0.0506	5.98	16	95	WG3279	
Benzene	mg/l	0.0595	0.0571	3.95	17	119	WG3279	3 <b>4</b> 2
Carbon tetrachloride Carbon tetrachloride	mg/l	0.0462	0.0552	17.8	17	92	WG3279	
Chlorobenzene	mg/l	0.0509	0.0476	6.68	16	102	WG3279	∂42
Chlorobenzene	mg/l	0.0518	0.0551	6.21	16	104	WG3279	
Chloroform	mg/l	0.0513	0.0513	0.0699		103	WG3279	
Chloroform	mq/l	0.0469	0.0491	4.62	15	94	WG3279	
Tetrachloroethene	mg/l	0.0500	0.0469	6.35	18	100	WG3279	
letrachloroethene	mg/l	0.0503	0.0640	24.0	18	101	WG3279	
[richloroethene	mg/l	0.0534	0.0525	1.62	16	107 99	WG3279 WG3279	244 242
Frichloroethene	mg/l	0.0493	0.0560	12.6	16 17	101	WG3279	342
Vinyl chloride	mg/l	0.0506	0.0506 0.0707	0.102 41.2	17	93	WG3275	
Vinyl chloride	mg/l	0.0465	0.0707	41.4	Τ,	, , ,	NOOLI	
Ignitability	Deg.	83.0	83.0	0.00	20	101	WG3281	L14
gnreadering	-			1 05	0.7	85	WG2200	316
1,4-Dichlorobenzene	ppm	0.0084	0.0085	1.05	27		WG3290 WG3290	
2,4,5-Trichlorophenol	ppm	0.0077	0.0087	11.5	29	78	WG3290	
2,4,6-Trichlorophenol	ppm	0.0076	0.0083	8.51 7.14	27 16	77 99	WG3290	)16
2,4-Dinitrotoluene	ppm	0.0098 0.0080	0.0106 0.0082	2.70	29	80	WG3290	
Hexachloro-1,3-butadiene	ppm	0.0087	0.0086	1.50	18	87	WG3290	
Hexachlorobenzene	ppm	0.0078	0.0080	1.89	31	79	WG3290	
Hexachloroethane	ppm	0.0064	0.0067	4.87	18	64	WG3290	
n&p-Cresol	ppm	0.0082	0.0082	0.487	24	82	WG3290	016
Nitrobenzene o-Cresol	ppm	0.0074	0.0080	7.97	18	75	WG3290	016
Pentachlorophenol	ppm	0.0076	0.0081	6.97	30	76	WG3290	
Pyridine	ppm	0.0033	0.0031	4.59	35	33	WG3290	)16
		**	Cn21					
Analyta	Units	Matri MS Res	x Spike Ref Res	TV %	Rec	Limit	Ref Samp	Batch
Analyte	0111 03							
1,1-Dichloroethene	mg/l	2.83	0.00		13.	58-145		-01 WG3279
1,1-Dichloroethene	mg/l	2.16	0.00	2.5		58-145	L316691-	-01 WG3279
1,2-Dichloroethane	mg/l	2.38	0.00	2.5		54-145		-01 WG3279
1,2-Dichloroethane	mg/l	2.16	0.00	2.5		54-145 47-133		-01 WG3279 -01 WG3279
L, Z-Dichilordechane						// / — ! ~ ~	1.31//110-	-UI WG32/9
2-Butanone (MEK)	mg/l mg/l	10.8 9.13	0.00 0.0324	12.5		47-133		-01 WG3279



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Pittsford, NY 14534

		шэттто	•					
	mg/l	2.43	0.00	2.5	97.2	51-134	L317200-01	WG327942
Benzene	mg/1	2.13	0.00					
		Matri	x Spike					
7-07	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Analyte	0111100	110 1100						
Benzene	mq/l	2.24	0.00	2.5	89.4	51-134	L316691-01	WG327942
Carbon tetrachloride	mg/l	2.02	0.00	2.5	80.8	51-147	L317200-01	WG327942
	mg/l	2.32	0.00	2.5	92.9	51-147	L316691-01	. WG327942
Carbon tetrachloride	mg/1	2.39	0.00	2.5	95.8	59-125	L317200-01	.WG327942
Chlorobenzene	mg/l	2.53		2.5	100.	59-125	L316691-01	WG327942
Chlorobenzene	mg/l	2.20	0.00	2.5		55-133	L317200-01	
Chloroform	mq/1	2.19	0.00	2.5		55-133	L316691-01	. WG327942
Chloroform	mg/l	2.12	0.00	2.5		53-128	L317200-01	. WG327942
Tetrachloroethene Tetrachloroethene	mg/1	2.77	0.00	2.5	111.	53-128	L316691-01	
	mg/l	2.13	0.00	2.5	85.3	57-135	L317200-01	. WG327942
Trichloroethene	mg/1	2.41	0.00	2.5	96.6	57-135	L316691-01	. WG327942
Trichloroethene	mg/l	2.57	0.00	2.5	103.	44-132	L317200-01	
Vinyl chloride	mg/l	3.01	0.00	2.5	120.	44-132	L316691-01	WG327942
Vinyl chloride	mg/ ±	J. U.						
Manaumit	mg/l	0.0029	0.00	.003	98.0	70-130	L317220-06	WG328270
Mercury	mg/ x	0.0023	0.00					
Descris	mg/l	1.16	0.00	1.13	103.	75-125	L317288-01	. WG328276
Arsenic	mg/l	1.27	0.200	1.13		75-125	L317288-01	
Barium	mg/1	1.10	0.0051		96.9	75-125	L317288-01	. WG328276
Cadmium	mg/l	1.06	0.0101			75-125	L317288-01	WG328276
Chromium	mg/l	3.12	2.00	1.13	99.1	75-125	L317288-01	WG328276
Lead	mg/1	1.21	0.0159	1.13	106.	75-125	L317288-01	WG328276
Selenium	mq/1	1.03	0.00	1.13	91.2	75-125	L317288-01	.WG328276
Silver	11197 =	2.00						
	N	Matrix Spi	ke Duplio	cate				
77711140			Ref Res	RPD	Lim:	it %Rec	Ref Samp	Batch
Analyte	0111100							
				9.79	22	103.		1 WG327942
1,1-Dichloroethene	mg/l	2.57	2.83	9.79 3.08	22 22	103. 83.8	L316691-0	1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene	mg/l mg/l	2.57 2.10	2.83 2.16 2.38				L316691-0 L317200-0	1 WG327942 1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane	mg/l mg/l mg/l	2.57 2.10 2.33	2.83 2.16 2.38	3.08	22 21 2 21	83.8 93.4 86.1	L316691-0 L317200-0 L316691-0	1 WG327942 1 WG327942 1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane	mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15	2.83 2.16	3.08 1.78	22 21 2 21 22	83.8 93.4 86.1 84.3	L316691-0 L317200-0 L316691-0 L317200-0	01 WG327942 01 WG327942 01 WG327942 01 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK)	mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33	2.83 2.16 2.38 2.16	3.08 1.78 0.142	22 21 2 21 22 22 22	83.8 93.4 86.1 84.3 76.6	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0	01 WG327942 01 WG327942 01 WG327942 01 WG327942 01 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK)	mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60	2.83 2.16 2.38 2.16 10.8	3.08 1.78 0.142 2.58	22 21 21 22 22 22 18	83.8 93.4 86.1 84.3 76.6 94.3	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene	mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36	2.83 2.16 2.38 2.16 10.8 9.13	3.08 1.78 0.142 2.58 5.04	22 21 22 22 22 22 18 18	83.8 93.4 86.1 84.3 76.6 94.3 87.5	L316691-0 L317200-0 L316691-0 L316691-0 L316691-0 L317200-0 L316691-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82	22 21 2 21 22 22 22 18 18 23	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18	22 21 21 22 22 22 18 18 23 23	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L316691-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120	22 21 22 22 22 18 18 23 23	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Chlorobenzene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18	22 21 22 22 22 18 18 23 23 22 22	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chlorobenzene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.22 2.32 2.32 2.32 2.53 2.20	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257	22 21 21 22 22 18 18 23 23 23 23 22 22 7 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0	MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.27 2.40	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19	3.08 1.78 0.142 2.58 5.04 3.03 2.16 6.1.82 2.18 0.120 2.10 0.257 1.29	22 21 22 22 22 18 18 23 23 23 23 22 22 7 20 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.6	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0	11 WG327942 11 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19 2.12	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543	22 21 2 21 22 22 18 18 23 23 23 22 22 7 20 20 8 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.5 90.9 95.9 98.0 88.6 85.4	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0	MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.20 2.19 2.12	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543	22 21 22 22 22 18 18 23 23 22 22 7 20 20 3 24 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.6 110.	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0	11 WG327942 11 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Crachloroethene Tetrachloroethene Tetrachloroethene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26	22 21 221 22 22 18 18 23 23 0 22 22 7 20 20 8 24 24 23	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.4 86.6 85.4 110. 86.4	L316691-0 L317200-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0	MG327942 MG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26	22 21 22 22 18 18 23 23 23 23 23 24 24 24 24 23 23	83.8 93.4 86.1 84.3 76.6 94.3 87.3 90.9 95.9 98.4 86.6 85.4 110. 86.4 95.6	L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0	11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Trichloroethene Trichloroethene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.06 1.02	22 21 22 22 22 18 18 23 23 23 23 24 22 20 20 3 24 24 23 24 24 23 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.0 88.4 86.6 4110. 86.4 98.3	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0 L317200-0	1 WG327942 1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.13	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26	22 21 22 22 18 18 23 23 23 23 23 24 24 24 24 23 23	83.8 93.4 86.1 84.3 76.6 94.3 87.3 90.9 95.9 98.4 86.6 85.4 110. 86.4 95.6	L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0 L317200-0	11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 11 WG327942 11 WG327942 11 WG327942 11 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Trichloroethene Trichloroethene	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.36	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26 1.02 4.42 4.97	22 21 22 22 22 18 18 23 23 23 22 7 20 20 20 8 24 23 23 24 24 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.6 85.4 110. 86.4 95.6 98.3 115.	L316691-0 L317200-0	11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 19 WG327942 10 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride Vinyl chloride	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.36	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.53 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26 1.02 4.42 4.97	22 21 22 22 22 18 18 23 23 23 23 24 22 20 20 3 24 24 23 24 24 23 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.0 88.4 86.6 4110. 86.4 98.3	L316691-0 L317200-0	1 WG327942 1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.39 2.46 2.87	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.19 2.12 2.77 2.13 2.41 2.57 3.01	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.02 4.42 4.97	22 22 22 22 18 18 23 23 23 22 7 20 20 20 3 24 24 23 23 24 24 24 24	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 95.9 98.0 88.4 86.6 110.8 86.4 95.6 98.3 115.	L316691-0 L317200-0 L316691-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0	MG327942 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Vinyl chloride Vinyl chloride Mercury	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.39 2.46 2.87	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01 0.0029	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26 1.02 4.42 4.97 4.65	22 21 22 22 22 18 18 23 23 22 22 20 20 3 24 24 23 23 24 24 24 20 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.6 85.4 110. 86.4 95.6 98.3 115.	L316691-0 L317200-0 L316691-0	1 WG327942 1 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride Vinyl chloride Mercury Arsenic	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.39 2.46 2.87 0.0030	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.06 1.02 4.42 4.97 4.65	22 22 22 22 22 18 23 23 23 24 24 24 24 24 24 20 20 20 20 20 20 20 20 20 20 20 20 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 98.0 88.4 86.6 85.4 110.8 85.6 98.3 115. 103.	L316691-0 L317200-0 L316691-0 L317288-0	1 WG327942 1 WG327942 1 WG327942 1 WG327942 1 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride Vinyl chloride Mercury Arsenic Barium	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.74 2.16 2.39 2.46 2.87 0.0030 1.18 1.26 1.09	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01 0.0029	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 2.10 0.257 1.29 0.543 1.08 1.26 1.02 4.42 4.97 4.65	22 22 22 22 22 18 18 23 23 23 22 7 20 20 3 24 24 23 23 23 24 24 24 25 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.6 85.4 110. 86.4 110. 86.4 110. 86.4 98.3 115.	L316691-0 L317200-0 L316691-0 L316691-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L316691-0 L317200-0 L317200-0 L317200-0 L317200-0 L317200-0 L31728-0 L31728-0 L31728-0	01 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 11 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 10 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG328276 17 WG328276 18 WG328276 19 WG328276 19 WG328276 10 WG328276 11 WG328276
1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MEK) 2-Butanone (MEK) Benzene Benzene Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroform Chloroform Tetrachloroethene Trichloroethene Trichloroethene Trichloroethene Vinyl chloride Wercury  Arsenic Barium Cadmium	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2.57 2.10 2.33 2.15 10.5 9.60 2.36 2.19 2.06 2.27 2.40 2.48 2.21 2.17 2.13 2.16 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.46 2.39 2.40 2.40 2.40 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.1	2.83 2.16 2.38 2.16 10.8 9.13 2.43 2.24 2.02 2.32 2.32 2.39 2.53 2.20 2.19 2.12 2.77 2.13 2.41 2.57 3.01 0.0029	3.08 1.78 0.142 2.58 5.04 3.03 2.16 1.82 2.18 0.120 0.257 1.29 0.543 1.08 1.26 1.02 4.42 4.97 4.65	22 22 22 22 18 18 23 23 23 24 22 7 20 20 3 24 24 23 23 24 24 24 24 25 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20	83.8 93.4 86.1 84.3 76.6 94.3 87.5 82.3 90.9 95.9 98.0 88.4 86.4 110. 86.4 95.6 98.3 115. 103.	L316691-0 L317200-0 L317200-0 L316891-0 L317200-0	11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG327942 17 WG327942 18 WG327942 19 WG327942 10 WG327942 11 WG327942 11 WG327942 12 WG327942 13 WG327942 14 WG327942 15 WG327942 16 WG328276 17 WG328276 18 WG328276 19 WG328276 19 WG328276 10 WG328276 11 WG328276
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Tax I.D. 62-0814289

Est. 1970

Leader Environmental Mr. Peter von Schondorf 271 Marsh Road Suite 2

271 Marsh Road Suite 2 Quality Assurance Report Level II
Pittsford, NY 14534

L317105

November 07, 2007

Batch number /Run number / Sample number cross reference

WG327619: R339719: L317105-01
WG327856: R339785: L317105-01
WG327942: R339908: L317105-01
WG328018: R340003: L317105-01
WG328113: R340084: L317105-01
WG328114: R340086: L317105-01
WG328126: R340104: L317105-01
WG3287918: R340111: L317105-01
WG3287919: R340154: L317105-01
WG328270: R340154: L317105-01
WG328270: R340165: L317105-01
WG329016: R340842: L317105-01

 $\star$  \* Calculations are performed prior to rounding of reported values .



Tax I.D. 62-0814289

Est. 1970

Leader Environmental Mr. Peter von Schondorf 271 Marsh Road Suite 2

Pittsford, NY 14534

Quality Assurance Report Level II

L317105

November 07, 2007

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Landfill Weight Ticket and Landfill Approval

Dump 84p

Binghamton,NY · 13905 (807)763-4434 11/15/07 Ticket No : 897276 Customer: 0314 B & E DISPOSAL SERVICE LLC Material: CS

Truck ID: 031417 Trailer: 031402 Gross: 33240

Tare:

32060 7:53 am

7:13 am

Net:

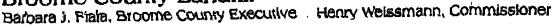
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Remarks U Broome County Landfill 286 Knapp Rd

Thank you



#### Division of Solid Waste Management Broome County Landfill





286 Khapp Road . Blinghamion, New York 13905 (607) 763-4450 . Fax (607) 763-4280 . Website: www.gobroomecounty.com

November 07, 2007

Esther Woods

B&E Disposal Service, LLC

320 West River Road

Nichols, NY 13812

RE:

CONTAMINATED SOIL BURY (CSB)

LEADER SERVICES LAB REPORT # L317105-01 & 02

Dear Mrs. Woods:

This letter is to authorize you to dispose of contaminated soil bury at the Broome County Landfill. This approval is based on the above mentioned lab report. Further, we need to have a copy of your current Part 364 Industrial Waste Transporter permit to haul this material to the landfill. The contaminated soil bury originates from the following location: OVERNITE TRANSPORTATION PROPERTY located in KIRKWOOD, NY.

You need to bring this letter with you to the Landfill to be allowed to dump the contaminated soil bury and a waste manifest or bill of lading must accompany each load.

Should you have any questions, please contact me at (607) 778-2932.

Sincerely.

Laurie Haskell

Solid Waste Specialist

aure Haskell

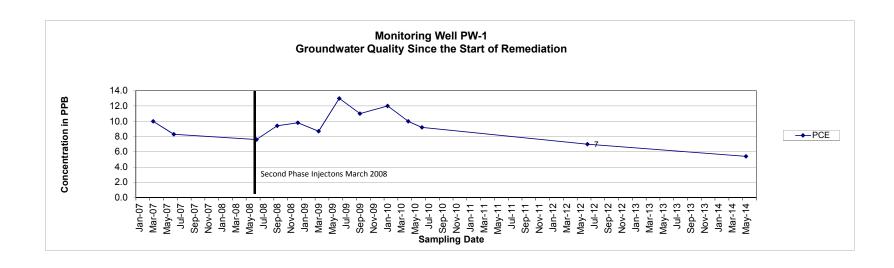
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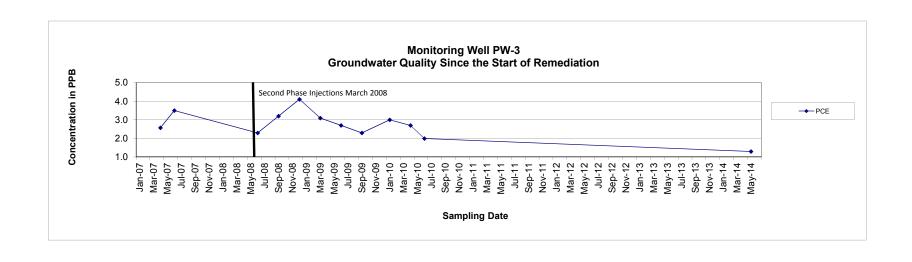
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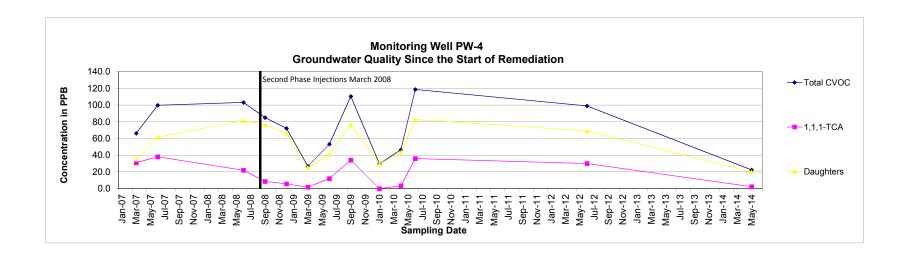
Robert Denz, Director, Environmental Health Lois Dilworth, Nanticoke Landfill CAC Chairman Scott Ellis, Town of Maine Richard Hand, Broome County Landfill Supervisor

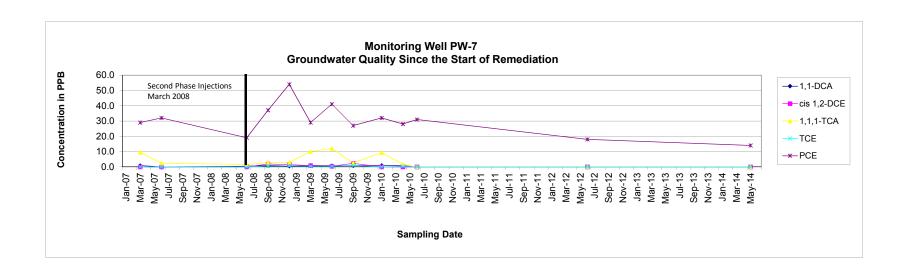


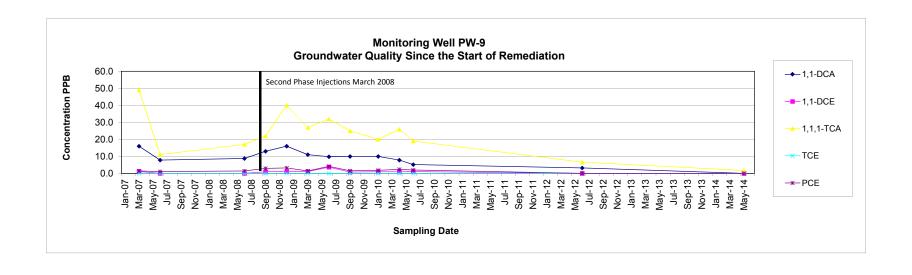
# APPENDIX I Graphs Showing Groundwater Trends of Declining Volatile Organic Compounds

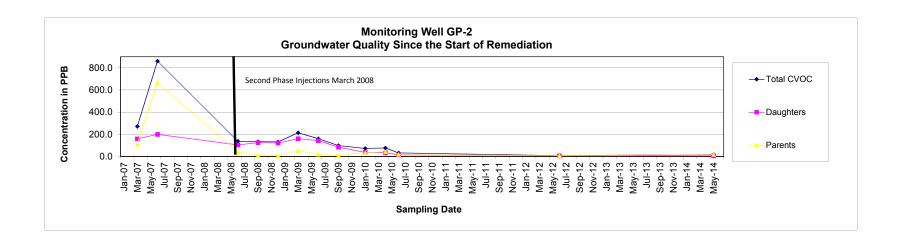


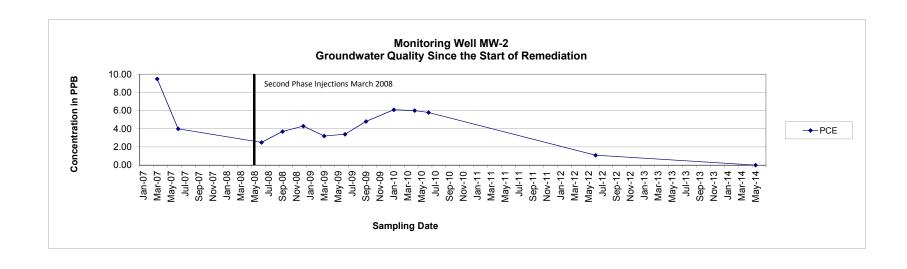


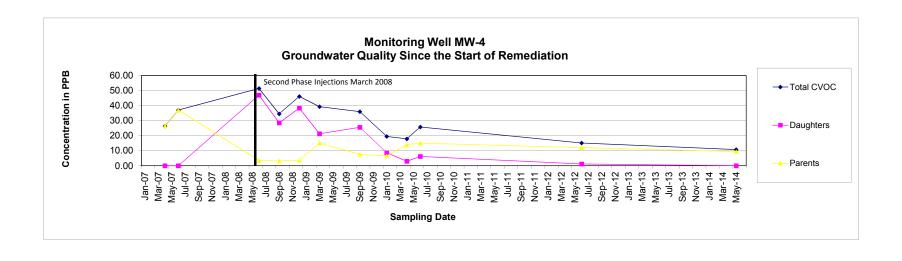


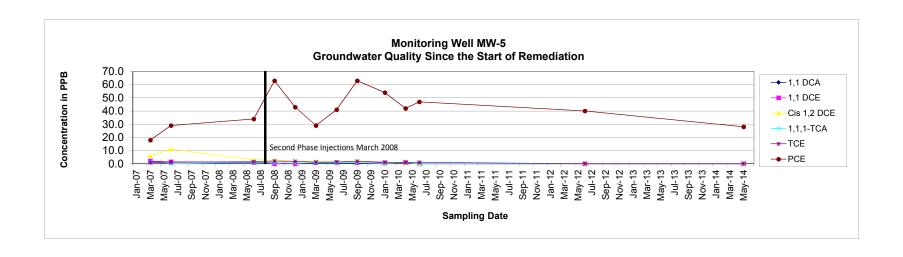












# APPENDIX J Environmental Easement and Proof of Filing with Clerk

#### OFFICE OF GENERAL COUNSEL

New York State Department of Environmental Conservation 625 Broadway, 14th Floor, Albany, New York 12233-1500 Phone: (518) 402-9185 • Fax: (518) 402-9018 www.dec.ny.gov

January 11, 2017

# SENT VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Joel N. Patch, Esq. Hinman Howard & Kattell, LLP 80 Exchange Street P.O. Box 5250 Binghamton, NY 13902

RE:

**Environmental Easement Package** 

**Site Name: TNT Red Star Express** 

Site No.: 704028

Dear Mr. Patch:

Enclosed, please find the fully executed Environmental Easement and TP 584 tax form referencing the site located at 215 Industrial Park Drive, Kirkwood, NY and C&D Terminal Leasing, Inc.

Once the Environmental Easement is recorded, the local municipality will need to be notified via Certified Mail, Return Receipt Requested.

Please return a copy of the recorded easement marked by the County Clerk's Office with the date and location of recording, and a certified copy of the municipal notice. The information from the recorded easement and notices are necessary to process the Certificate of Completion.

If you have any further questions or concerns relating to this matter, please contact our office at 518-402-9510.

Sincerely,

andrew Dugliehn

Andrew Guglielmi, Esq. Section Chief A
Bureau of Remediation



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	E THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
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Town of Kill 70 Crescer	VIS Chairman rkwood 2BA + Orive	D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
Kirkwood	N.9.13795	3. Service Type  Certified Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.	se
		4. Restricted Delivery? (Extra Fee) ☐ Yes	
2. Article Number  (Transfer from service la.	7011 350	0 0000 3619 F369	
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Street, Apt. No.; or PO Box No. 1 City, State, ZIP+4

#### **NOTICE TO MUNICIPALITY**

Date: January 19th, 2017

Duane Travis, Chairman Town of Kirkwood Zoning Board of Appeals 70 Crescent Drive Kirkwood, NY 13795

Re: Environmental Easement; 215 Industrial Park Drive, Kirkwood, New York

#### Dear Chairman:

Attached please find a copy of an environmental easement granted to the New York State Department of Environmental Conservation ("DEC") on January 6<sup>th</sup>, 2017 by C & D Terminal Leasing, Inc., owner, for property at 215 Industrial Park Drive, Kirkwood, Broome County, New York, Tax Map No. 162.02-2-1, DEC Site No: 704028. Said environmental easement was recorded in the Broome County Clerk's Office on January 19<sup>th</sup>, 2017 in Book 2514 of Deeds at Page 179.

This Environmental Easement restricts future use of the above-referenced property to restricted commercial and/or industrial uses as defined by DEC regulations. Any on-site activity must be done in accordance with the Environmental Easement and the Site Management Plan which is incorporated into the Environmental Easement. Department approval is also required prior to any groundwater use.

Article 71, Section 71-3607 of the New York State Environmental Conservation Law requires that:

- 1. Whenever the department is granted an environmental easement, it shall provide each affected local government with a copy of such easement and shall also provide a copy of any documents modifying or terminating such environmental easement.
- 2. Whenever an affected local government receives an application for a building permit or any other application affecting land use or development of land that is subject to an environmental easement and that may relate to or impact such easement, the affected local government shall notify the department and refer such application to the department. The department shall evaluate whether the application is consistent with the environmental easement and shall notify the affected local government of its determination in a timely fashion, considering the time frame for the local government's review of the application. The affected local government shall not approve the application until it receives approval from the department.

An electronic version of every environmental easement that has been accepted by this Department is available to the public at: http://www.dec.ny.gov/cfmx/extapps/derfoil/index.cfm?pageid. If you have any questions or comments regarding this matter, please do not hesitate to contact me.

Very truly yours,

Hinman Howard & Kattell LLP

Joel N. Pateh, Esq., as Attorney for C & D Terminal Leasing, Inc.



#### STATE OF NEW YORK **BROOME COUNTY**

I, Richard R. Blythe, Clerk of the County of Broome of the County Court of said County and of the Supreme Court, both being courts of Record having a common seal, DO HEREBY CERTIFY that I have compared this copy with the original

DESCRIPTION: EASEMENT

DATE:

01/19/2017

BOOK/PAGE: D2514 / 179

filed, recorded, or entered in this office and that the same is a correct transcript thereof and of the whole of said original.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said County and Courts on

Date: 01/19/2017

By Frances Martin-Childs

Frances Motion - Childe

Deputy County Clerk



#### **BROOME COUNTY - STATE OF NEW YORK**

RICHARD R. BLYTHE, COUNTY CLERK 60 HAWLEY STREET, P.O. BOX 2062 **BINGHAMTON, NY 13902** 

#### **COUNTY CLERK'S RECORDING PAGE** \*\*\*THIS PAGE IS PART OF THE DOCUMENT - DO NOT DETACH\*\*\*



BOOK/PAGE: D2514 / 179 INSTRUMENT #: 201700001207

Receipt#: 20170828411

Clerk: DW

Rec Date: 01/19/2017 11:07:01 AM

Doc Grp: D

Descrip: **EASEMENT** 

Num Pgs: 10

Rec'd Frm: HINMAN HOWARD & KATTELL LLP

Party1: C & D TERMINAL LEASING INC NEW YORK STATE DEPARTMENT OF Party2:

**ENVIRONMENTAL CONSERVATION** TOWN OF KIRKWOOD Town:

Recording:

5.00 Cover Page Recording Fee 65.00 14.25 Cultural Ed 1.00 Records Management - Coun 4.75 Records Management - Stat

90.00 Sub Total:

Transfer Tax

Transfer Tax - State 0.00 Transfer Tax - County 0.00

Sub Total: 0.00

90.00 Total: \*\*\*\* NOTICE: THIS IS NOT A BILL \*\*\*\*

\*\*\*\*\* Transfer Tax \*\*\*\*\* Transfer Tax #: TT002547 Transfer Tax

Consideration: 0.00

0.00 Total:

#### WARNING\*\*\*

This sheet constitutes the clerks endorsement, required by Section 316-A (5) & Section 319 of the Real Property Law of the State of New York. DO NOT DETACH.

Richard R. Blythe Broome County Clerk

Richard R BATTHE

Record and Return To:

HINMAN HOWARD & KATTELL LLP 700 SECURITY MUTUAL BLDG 80 EXCHANGE ST PO BOX 5250 BINGHAMTON NY 13902

# ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this day of JANALY, 2017, between Owner(s) C&D Terminal Leasing, Inc., having an office at 400 Clarkson Drive, Vestal, New York 13850, County of Broome, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 215 Industrial Park Drive in the Town of Kirkwood, County of Broome and State of New York, known and designated on the tax map of the County Clerk of Broome as tax map parcel numbers: Section 162.02 Block 2 Lot 1, being the same as that property conveyed to Grantor by deed dated February 22, 2000 and recorded in the Broome County Clerk's Office in Liber and Page 1924/390. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 5.107 +/- acres, and is hereinafter more fully described in the Land Title Survey dated March 11, 1999 and last revised February 8, 2016 prepared by Roger H. Holmes, L.L.S. of Southern Tier Surveying, LLP, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE**, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: B7-0521-97-09, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

- 1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.
- 2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.
  - A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

- (2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;
- (4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Broome County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- (5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- (6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- (7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

- (8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- (9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;
- (10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.
- B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.
- C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

- D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.
- E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

#### Law.

- F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.
- G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:
- (1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).
  - (2) the institutional controls and/or engineering controls employed at such site:
    - (i) are in-place;
- (ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and
- (iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;
- (3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;
- (4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;
- (5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- (6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and
  - (7) the information presented is accurate and complete.
- 3. <u>Right to Enter and Inspect</u>. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.
- 4. <u>Reserved Grantor's Rights</u>. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:
- A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;
- B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

#### 5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

County: Broome Site No: 704028 Order on Consent Index: B7-0521-97-09

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

- B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.
- C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.
- D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.
- 6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 704028

Office of General Counsel

NYSDEC 625 Broadway

Albany New York 12233-5500

With a copy to:

Site Control Section

Division of Environmental Remediation

NYSDEC 625 Broadway Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. <u>Recordation</u>. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

- 8. <u>Amendment</u>. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 9. <u>Extinguishment.</u> This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

County: Broome Site No: 704028 Order on Consent Index: B7-0521-97-09

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.
C&D Terminal Leasing, Inc.:
By: Warold R Clark.
Print Name: HARGLO R. CLARK
Title: Vice Pres Date: 12-20-/6.
Grantor's Acknowledgment
STATE OF NEW YORK ) ) ss: COUNTY OF )
On the

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner, By: Robert W. Schick, Director Division of Environmental Remediation **Grantee's Acknowledgment** STATE OF NEW YORK ) ss: COUNTY OF ALBANY On the day of January, in the year 2017 before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the commissioner of the State of New York Department of Environmental Conservation, and that by his/her/signature or the instrument, the individual, or the person upon behalf of which the individual acted lexecuted the instrument. State of New York Notary

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 20

#### SCHEDULE "A" PROPERTY DESCRIPTION

Surveyor's Description 5.107± Acre Parcel

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Kirkwood, County of Broome and State of New York bounded and described as follows:

Beginning at a rebar with cap set in the westerly boundary of the Perimeter Road at its intersection with the southwesterly boundary of the property now or formerly owned by the Broome County Industrial Development Agency by deed recorded in the Broome County Clerk's Office in Liber 1504 at page 73.

Thence along said property of the Broome County Industrial Development Agency the following two courses and distances:

- 1) N 51-26-11 W a distance of 515.00 feet to an iron found;
- 2) N 38-34-19 E a distance of 705.09 feet to an iron found in the westerly boundary of the Perimeter Road.

Thence along the westerly boundary of the Perimeter Road the following four courses and distances:

- 1) S 12-48-54 E a distance of 104.15 feet to an iron found;
- 2) Southerly along a tangent curve to the right having a radius of 360.00 feet an arc distance of 71.82 feet to an iron found;
- 3) S 01-17-41 E a distance of 465.32 feet to an iron found;
- 4) Southerly along a tangent curve to the right having a radius of 360.00 feet an arc distance of 252.62 feet to the Point of Beginning.

Containing 5.107± acres as shown on a survey by Southern Tier Surveying, LLP dated March 11, 1999 and last revised February 8, 2016.

SUBJECT TO an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for the Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from the New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway Avenue, Albany, NY 12232 or at <a href="mailto:derweb@dec.ny.gov">derweb@dec.ny.gov</a>.

ALSO SUBJECT to any other easement of record.

#### Recording office time stamp

Transaction number



For recording officer's use

Amount received

Schedule B., Part I \$ Schedule B., Part II \$

# Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax

			2-584, before completing this form. Print or type	e		
Schedule A - Inform	nation relatin	g to	conveyance			
Grantor/Transferor	Name (if individual, last, first, middle initial) (  check if more than one grantor)				Soci	al security number
☐ Individual	C&D Terminal Leasing, Inc.					
	Mailing address				Soci	al security number
Partnership						
☐ Estate/Trust	City State ZIP code				Fede	eral EIN
☐ Single member LLC				16	-1261288	
Other	Single member's name if grantor is a single member LLC (see instructions)					le member EIN or SSN
Grantee/Transferee	Name (if individual, last, first, middle initial) ( check if more than one grantee)				Soci	al security number
☐ Individual	New York Stat	e De	partment of Environmental Conservation			
☐ Corporation	Mailing address				Soci	al security number
☐ Partnership	615 Broadway	, 12th	n floor			
☐ Estate/Trust	City		State	ZIP code	Fede	ergi EIN
☐ Single member LLC	Albany -		NY	12233-70	11 /	1-6013200
Other	Single member's	nam	e if grantee is a single member LLC (see instructions)		Sing	le member EIN or SSN
Location and description	n of property co	nvey	ed			
Tax map designation – Section, block & lot (include dots and dashes)	SWIS code (six digits)		Street address	City, town, o	r village	County
162.02-2-1	033400		215 Industrial Park Drive	Kirkwood		Broome
Type of property convey	ed (check applica	able b	ox)			
1 One- to three-fam	ilv house	5	☐ Commercial/Industrial Date of conveya	nce	Percenta	ge of real property
		Apartment building	conveyed which is residentia			
3 Residential condo		7	Office building	1 0 1		erty%
4 Vacant land		. 8	Other day	year		see instructions)
Condition of conveyance	e (check all that a	pply)	f. Conveyance which consists of a	I.   Option a	ssignmen	t or surrender
a.   Conveyance of fee	e interest		mere change of identity or form of ownership or organization (attach Form TP-584.1, Schedule F)	m.□ Leaseho	ld assianr	nent or surrender
b. Acquisition of a conf	trolling interest (s	tate	FORTH TF-364.1, Schedule F)		9	
percentage acquired		%)	g.   Conveyance for which credit for tax previously paid will be claimed (attach	n. 🗆 Leaseho	ld grant	
c.   Transfer of a contr	olling interest (s	tate	Form TP-584.1, Schedule G)	o. 🗵 Conveya	nce of an	easement
percentage transfe	erred	%)	h. Conveyance of cooperative apartment(s)			
d. Conveyance to co	operative housi	ng	i.  Syndication	from tran		hich exemption laimed <i>(complete</i> <i>II)</i>
e.   Conveyance pursu	ant to or in lieu	of	<ul> <li>j.    ☐ Conveyance of air rights or development rights</li> </ul>	q. 🗌 Conveya and partl	ince of pro ly outside	pperty partly within the state
foreclosure or enfo interest (attach Form	rcement of secu	ırity	k.  Contract assignment	r. Conveyar	•	nt to divorce or separation

Date received

Schedule B — Real estate transfer tax return (Tax Law, Article 31)		
Part I – Computation of tax due  1 Enter amount of consideration for the conveyance (if you are claiming a total exemption from tax, che exemption claimed box, enter consideration and proceed to Part III)	on claimed 1. 2. 3. 4. e G) 5.	0 00 0 00 0 00 0 00 0 00 0 00
Part II – Computation of additional tax due on the conveyance of residential real property for \$1 mil  1 Enter amount of consideration for conveyance (from Part I, line 1)		
The conveyance of real property is exempt from the real estate transfer tax for the following reason:  a. Conveyance is to the United Nations, the United States of America, the state of New York, or any agencies, or political subdivisions (or any public corporation, including a public corporation creat compact with another state or Canada)	ed pursuant to agreem	ent or
<ul><li>b. Conveyance is to secure a debt or other obligation.</li><li>c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior</li></ul>		
d. Conveyance of real property is without consideration and not in connection with a sale, including realty as bona fide gifts  e. Conveyance is given in connection with a tax sale	conveyances conveyir	ng d
f. Conveyance is a mere change of identity or form of ownership or organization where there is no cownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corpor comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F	change in beneficial ration of real property	is .
g. Conveyance consists of deed of partition		( - C
<ul> <li>h. Conveyance is given pursuant to the federal Bankruptcy Act</li> <li>i. Conveyance consists of the execution of a contract to sell real property, without the use or occup the granting of an option to purchase real property, without the use or occupancy of such proper</li> </ul>	pancy of such property,	or
j. Conveyance of an option or contract to purchase real property with the use or occupancy of sucl consideration is less than \$200,000 and such property was used solely by the grantor as the gran and consists of a one-, two-, or three-family house, an individual residential condominium unit, or in a cooperative housing corporation in connection with the grant or transfer of a proprietary leas individual residential cooperative apartment	ntor's personal residenc r the sale of stock ehold covering an	
k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, section 1401(e) (attack supporting such claim)		k

\*The total tax (from Part I, line 6 and Part II, line 3 above) is due within 15 days from the date conveyance. Please make check(s) payable to the county clerk where the recording is to take place. If the recording is to take place in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, make check(s) payable to the *NYC Department of Finance*. If a recording is not required, send this return and your check(s) made payable to the *NYS Department of Taxation and Finance*, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045.

Schedule C — Credit Line Mortgage Certificate (Tax Law, Article 11)
Complete the following only if the interest being transferred is a fee simple interest.  I (we) certify that: (check the appropriate box)
1. The real property being sold or transferred is not subject to an outstanding credit line mortgage.
2. The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:  The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.
The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).
The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
The maximum principal amount secured by the credit line mortgage is \$3,000,000 or more, and the real property being sold or transferred is <b>not</b> principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.
Please note: for purposes of determining whether the maximum principal amount secured is \$3,000,000 or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.
Other (attach detailed explanation).
The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:  A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
A check has been drawn payable for transmission to the credit line mortgagee or his agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.
The real property being transferred is subject to an outstanding credit line mortgage recorded in
Signature (both the grantor(s) and grantee(s) must sign)
The undersigned certify that the above information contained in schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of his/her knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance.    Title   Grantor signature   Title   Grantor signature   Title   Title   Grantor signature   Title   Title   Grantor signature   Title   Ti
Starter signature that control signature the second signature that the

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you checked *e*, *f*, or *g* in Schedule A, did you complete Form TP-584.1? Have you attached your check(s) made payable to the county clerk where recording will take place or, if the recording is in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, to the **NYC Department of Finance**? If no recording is required, send your check(s), made payable to the **Department of Taxation and Finance**, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045.

#### Schedule D - Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, section 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust,

If the property is being conveyed by a referee pursuant to a foreclosure proceeding, proceed to Part II, and check the second box under Exemptions for nonresident transferor(s)/seller(s) and sign at bottom.

#### Part I - New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Schedule A of Form TP-584 (or an attachment to Form TP-584), you must sign the certification below. If one or more transferors/sellers of the real property or cooperative unit is a resident of New York State, each resident transferor/seller must sign in the space provided. If more space is needed, please photocopy this Schedule D and submit as many

schedules as necessary to accommodate all resid	ent transferors/sellers.	
Certification of resident transferor(s)/selle	r(s)	
This is to certify that at the time of the sale or tran a resident of New York State, and therefore is not sale or transfer of this real property or cooperative	required to pay estimated personal in	re unit, the transferor(s)/seller(s) as signed below was scome tax under Tax Law, section 663(a) upon the
Signature	Print full name	Date
Signature V C	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Note: A resident of New York State may still be recreated a deed.	juired to pay estimated tax under Tax	Law, section 685(c), but not as a condition of
Part II - Nonresidents of New York State		
If you are a nonresident of New York State listed a but are not required to pay estimated personal incidence the box of the appropriate exemption below transferor(s)/seller(s) is not required to pay estimate transferor/seller who qualifies under one of the exemption.	ome tax because one of the exemption. If any one of the exemptions below ed personal income tax to New York S	ons below applies under Tax Law, section 663(c), applies to the transferor(s)/seller(s), that State under Tax Law, section 663. <b>Each</b> nonresident

photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers. If none of these exemption statements apply, you must complete Form IT-2663, Nonresident Real Property Estimated Income Tax Payment Form, or Form IT-2664, Nonresident Cooperative Unit Estimated Income Tax Payment Form. For more information, see Payment of estimated persor

#### Exem

5. 1 5 1. 200 i, 1.0 00 00 portain 0 0 m. 2.	enmarea meeme ran rayment remin ren mere internat	ion, dod i ayincin di cominatea
nal income tax, on page 1 of Form TP-584-I.		·
ption for nonresident transferor(s)/seller(s	5)	
	f the real property or cooperative unit, the transferor(s)/s York State, but is not required to pay estimated persona	
	old or transferred qualifies in total as the transferor's/sede, section 121) from to (see in	
	ng the mortgaged property to a mortgagee in foreclosur	
	authority of the United States of America, an agency or sociation, the Federal Home Loan Mortgage Corporation insurance company.	•
re	Print full name	Date

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Dale
Signature	Print full name	Date

Department of Taxation and Finance

TP-39

## Change in Mailing Address for Certain Real Estate Transfer Tax Forms if Using a Private Delivery Service

There has been a change to the address that must be used when submitting certain forms through a private delivery service rather than by U.S. Mail.

Send Form TP-584, Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax, to:

> NYS TAX DEPARTMENT DEPOSIT RESOLUTION UNIT 90 COHOES AVE GREEN ISLAND NY 12183-1515

Send Form TP-588, Cooperative Housing Corporation Information Return, to:

NYS TAX DEPARTMENT TDAB – TRANSFER TAX 90 COHOES AVE GREEN ISLAND NY 12183-1515

See Publication 55, *Designated Private Delivery Services*, for information about establishing the date you filed, and for the address to use for other forms.



## **Important Notice to Home Buyers**

If you are buying residential property and you plan to make it your primary residence, you may be entitled to school tax relief through the New York State STAR credit. To receive this credit, you must register with the Tax Department after you have taken title to the property. To register or to get more information, visit our website at <a href="https://www.tax.ny.gov">www.tax.ny.gov</a> or call 518-457-2036. Do not file an application for the STAR "exemption" with your assessor, since new STAR exemptions will no longer be granted. School tax relief is now provided to new applicants through the STAR credit.

## APPENDIX K Photographs



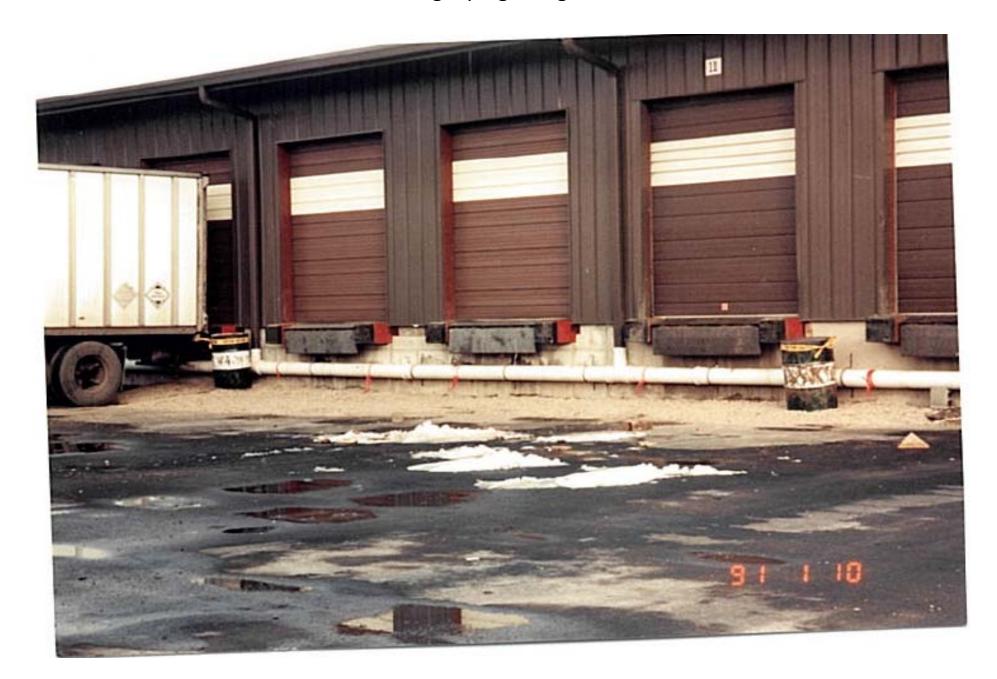
# January 10, 1991, 3 Days after Spill 120 Tons of Soil Removed



## January 10, 1991, 3 Days After Spill 120 Tons of Soil Removed



January 10, 1991, 3 Days After Spill Soil Venting Piping along foundation



#### Vapor Sampling YRC Freight, Kirkwood, New York



Offsite indoor air sampling.



Offsite sub-slab sampling.



Onsite indoor air sampling.



Onsite indoor and sub-slab sampling.,



Offsite soil gas sampling.



Offsite soil gas sampling.

### Vapor Sampling YRC Freight, Kirkwood, New York





Up wind onsite sample location.

Offsite soil gas sampling.

#### HRC Injections YRC Freight, Kirkwood, New York



Completing injections within PCE source area.



Completing injections within PCE source area.



Completing injections within PCE source area.



Completing injections within PCE source area.