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**REMEDIAL INVESTIGATION REPORT  
HW#401056  
SPILL #0702543  
253 OSBORNE ROAD  
TOWN OF COLONIE  
LOUDONVILLE, NEW YORK**

Prepared for:

253 Osborne Road Associates LLC  
And Walgreen Co.

Prepared by:

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## **1.0 Introduction**

This remedial investigation report (RIR) presents the information and findings from tetrachloroethene (PCE) contamination investigations and remediation programs that have been performed at the 253 Osborne Road Site (HW#401056) in the Town of Colonie, Loudonville, New York. It summarizes the history and findings of investigations performed since 2003. This report has been prepared pursuant to New York State Department of Environmental Conservation (DEC) Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation. The investigations to date establish a firm foundation from which a remedial action program can be selected.

## **2.0 Site Description**

The 253 Osborne Road Site is the former Osborne Road Plaza, located near the intersection of Osborne Road and Albany Shaker Road in Loudonville, Town of Colonie. The commercially zoned site is approximately 0.9 acres in size and is currently undeveloped with graded soil, partial residual asphalt paving, and a few trees. Site access is currently restricted by a chain link security fence with a locked gate. Figure 1 illustrates the location of the site.

The site formerly had a U-shaped retail-type strip mall and office building on the parcel. This was a single- and two-story cinder block building with a partial basement under a portion of the two story section of the building (northwestern corner); the majority of the building was slab-on-grade. The building was comprised of a single-story retail strip mall along Osborne Road connected to a single- and two-story office building. The retail strip mall portion of the building, reportedly constructed in 1955, contained four storefronts, one of which included a dry cleaner (Cleanerama) from 1960 to 1995. The office portion of the building was behind, northwest of the retail strip mall. The office building portion was reportedly constructed in 1962. A portion of the strip mall portion of the building was demolished in 2005 under the ownership of 253 Osborne Road Associates LLC. The rest of the building was demolished in 2010 under the ownership of the Walgreen Company. The property is currently owned by the Walgreen Company.

Prior to demolition, the property was serviced by overhead electric, two-fuel oil fed boilers, natural gas, and Town of Colonie municipal water and sewer services. The site building formerly utilized private septic systems prior to the installation of municipal sewers around 1968. The strip mall portion was formerly serviced by a single metal septic tank in the rear of the structure located underneath a paved parking area between the strip mall and two story portion of the building. The office building was formerly serviced by a septic system consisting of one 2,000-gallon septic tank and reportedly two drywells located along the northwest side of the lot directly behind (northwest of) the two-story portion of the office building. It is assumed that both systems were in use simultaneously prior to the installation of municipal sewer services. Figure 2 is a schematic showing the original layout of the building and septic systems at 253 Osborne Road.

253 Osborne Road was surrounded by a former Citgo gasoline station to the southwest (demolished in 2010), Osborne Road to the southeast across which is a Rite Aid pharmacy, a former food distribution warehouse to the west (demolished in 2010), a commercial building with restaurants, retail, and offices to the northwest (469-471 Albany Shaker Road), and a commercial/retail strip mall to the northeast. The Citgo gasoline station had an active petroleum spill prior to its demolition and a soil removal action was performed in 2010 after its demolition.



Numerous environmental assessments, investigations, and remedial measures have been performed at the site, which began in 2003 in association with a property transfer and the discovery of volatile organic compound (VOC) contamination in groundwater and soil at the site. A summary of the investigative and remedial activities is provided in the following sections presenting the hydrogeologic and environmental findings from these studies. All of these historical findings have been previously submitted to the DEC and were undertaken with NYSDEC oversight and/or review and comment.

### **3.0 Investigative and Remedial Action Activities**

Table 1 provides a concise summary of all the site investigative and remedial activities performed at the site. Figures 3 through 5 present all the environmental analytical data collected during these investigations (excepting the 2011 DEC investigation) for soil, groundwater, and vapor (air and soil vapors), respectively. The following sub-sections present the scope and findings of these investigations and remediation activities.

#### **3.1 2003 Environmental Assessment and Investigations**

In April 2003, CPI Environmental Services, Inc. (CPI) performed Phase I and Phase II Environmental Site Assessments of 253 Osborne Road in Loudonville, New York. During the Phase I ESA it was determined that a dry cleaner had been a tenant in a portion of the 253 Osborne Road building between 1960 and 1995, prior to ownership by 253 Osborne Road Associates, LLC or the Walgreen Company. Groundwater was sampled during the Phase II ESA and tetrachloroethene (PCE), a dry cleaning solvent, was detected in groundwater at the site above the New York State drinking water standard. As a result of the PCE detection in site groundwater, a spill (Spill #0305984) was called into DEC on September 4, 2003 and further delineation of the PCE (July 2003), and subsequent clean-up of PCE-impacted soil (October 2003), was performed with NYSDEC oversight.

During the April 2003 Phase II ESA, a single boring (MW-1) was advanced near the septic tank that serviced the retail strip mall portion of the site building. This boring/monitoring well location is shown on Figure 6. This boring encountered bedrock at 12.5 feet below grade and a shallow overburden monitoring well (two-inch PVC) was constructed with a ten-foot well screen set from 2.5 to 12.5 feet below grade. The overburden soil on the property is comprised of sand and silt, and groundwater was encountered at a depth of 4.9 feet below top of PVC casing (approximately 2-inches below grade). Groundwater from this well was then sampled and analyzed for VOCs utilizing the United States Environmental Protection Agency (USEPA) Method 502.2 by Adirondack Environmental Services, Inc. Two VOCs were detected in the groundwater, which were trichloroethene (TCE) at 1.2 micrograms per liter (ug/l) and PCE at 100 ug/l. The PCE detection was above the drinking water standard of 5 ug/l. A geologic log with monitoring well construction details is provided in Appendix 1.

In order to confirm the detection of PCE and delineate the extent of soil impacts for a potential soil remediation action, soil sampling was performed in July 2003 between the retail strip mall and the two-story portions of the 235 Osborne Road building. The July 2003 investigation involved the advancement of ten soil borings (B-1 through B-10) and confirmed the overburden soil on the property is comprised of sand and silt, and the depth to bedrock is approximately 12 feet. The locations of these borings are provided in Figure 7. The geologic logs for these ten borings are provided in Appendix 2.

**Table 1**  
**Summary of Investigations and Remediations Performed at 253 Osborne Road**

Report Dates	Actions	Findings	Recommendations
April 21, 2003	Phase I and Limited Phase II ESA (install single monitoring well in septic tank leach field)	Dry cleaner formerly occupied space in building Four 275-gallon fuel oil ASTs - 2 in basement, 1 in print shop, one behind liquor store Two on-site septic systems formerly used; no longer connected to building Monitoring well installed and sampled. TCE and PCE detected in groundwater; TCE at 1.2 ppb and PCE at 100 ppb	Perform additional Phase II ESA to define extent and degree of impacts
August 27, 2003	Phase II ESA - On July 30, 2003 advanced 10 borings and collected soil samples to delineate extent of PCE/TCE in septic tank leach field parking area behind (northeast of) building	Relatively small area of PCE detections with only one sample at concentration above NYSDEC soil clean-up objective	Notify NYSDEC of PCE detections and remove soil and septic tank
September 5, 2003	NYSDEC Notified of PCE Detections and Spill Hotline called	Spill Number #03-05984 Assigned	Remove suspect septic tank and impacted soil
November 5, 2003	Remediation - October 2003 removal and off-site disposal of septic tank and PCE-impacted soil, and confirmatory soil sampling	234 tons of soil removed and disposed at EMSI with NYSDEC approval and residual PCE levels in soil all below NYSDEC soil clean-up criteria	Request closure of spill from NYSDEC
November 14, 2003	NYSDEC closes spill #03-05984 as meeting soil guidelines under TAGM 4046 requiring no further action	No further action required	No further action required
May 29, 2007	Phase II ESA - On May 8, 2007 advanced 14 borings and collected soil and groundwater samples on all sides of the building and below the building	PCE detected in 14 out of 17 soil samples with only one sample below the building above NYSDEC soil clean-up criteria. Also, PCE and other chlorinated solvents were detected in 7 out of 12 groundwater samples with PCE above groundwater standards in 6 samples; including one elevated level on the north side of the building.	Further assessment is warranted
May 31, 2007	NYSDEC notified of PCE detections and Spill Hotline called	Spill Number #07-02543 Assigned	Perform additional Phase II ESA to confirm extent and degree of impacts
October 11, 2007	Phase II ESA - On September 24 and 25, 2007, advanced 8 borings, collected 13 soil samples, installed and sampled 8 permanent monitoring wells	PCE detected in 5 out of 13 soil samples, which were all below NYSDEC clean-up criteria. PCE detected in 3 out of 8 groundwater samples, which were all above groundwater standards. Groundwater flow direction was established to be to the northwest. The highest PCE concentration (430 ppb) in groundwater was in the most downgradient well along the northwestern property line.	Sample below building and in vicinity of septic system northwest of building determine PCE source on that side of building
November 2, 2007	Phase II ESA - On October 26, 2007, advanced 7 additional soil borings using direct push geoprobe; 4 inside the building downgradient of the May 29 soil sampling location above clean-up criteria and 3 downgradient of septic system northwest of building. On October 30, 2007, collected water and sludge samples from septic tank northwest of building, sample soil from dry well connected to that septic tank, and sample soil from a test pit downgradient from the dry well.	PCE was not detected above NYSDEC soil clean-up criteria in any soil sample, including the septic tank dry well. PCE was detected in the septic tank water at 26 ppb but not in the septic tank sludge	Perform soil removal where soil concentration was above clean-up criteria (May 29 <sup>th</sup> HA-1 location), pump out septic tank, and initiate soil vapor investigation
December 27, 2007	Remediation - December 3, 2007 removal of soil and septic tank pump out	191 tons of soil removed and disposed at EMSI with NYSDEC approval and residual PCE levels in soil all below NYSDEC soil clean-up criteria. Also, pumped out liquid and sludge from septic tank on northwest side of building and disposed of this PCE-containing liquid as hazardous waste at United Oil recovery in Meridan, Connecticut.	Request closure of spill from NYSDEC for 253 Osborne Road property
	Soil Vapor Investigation - Soil and sub-slab vapor, and indoor and outdoor air samples collected and analyzed for VOCs	PCE and TCE are present in the soil vapor at 253 Osborne Road with more elevated levels present in the northwestern portion of the property.	Install sub-slab de-pressurization system in any building built at 253 Osborne Road Establish restrictions on groundwater extraction

**Table 1**  
**Summary of Investigations and Remediations Performed at 253 Osborne Road**

Report Dates	Actions	Findings	Recommendations
April 8, 2008	Phase II ESA - In February and March, 2008, advanced four borings at 469-471 Albany Shaker Road and collected soil samples for VOC analyses and installed and sampled four monitoring wells for VOC analyses	PCE was detected at trace levels in soil samples closest to 253 Osborne Road, well below soil cleanup criteria, and was not detected in the two farther downgradient samples; TCE was not detected in any soil sample. PCE was detected in all four groundwater samples above the groundwater standard. A PCE level of 35 ppb was detected in the farthest downgradient well (northwest property line of 469-471 Albany Shaker Road). The PCE level in the most upgradient well (OS-10), closest to 253 Osborne Road, was 770 ppb; TCE was also detected, and only in this well, at 120 ppb. Groundwater flow direction is to the northwest and the depth to bedrock increases across 460-471 Albany Shaker Road (southeast to northwest) from approximately 15 feet to 40 feet.	Further delineate extent of PCE-impacted groundwater
	Soil Vapor Investigation - On March 7, 2008, sub-slab vapor and indoor and outdoor air samples were collected and analyzed for VOCs	PCE and TCE are detected in the sub-slab soil vapor at 469-471 Albany Shaker Road but are not detected in indoor or outdoor air samples.	Install sub-slab de-pressurization system in 469-471 Albany Shaker Road
May 6, 2008	Phase II ESA - On April 17, 2008 water from a catch basin on the northwest side of the 253 Osborne Road building was sampled and analyzed for VOC	No VOCs were detected in the water or sediment in the catch basin; eliminating this catch basin as a potential source of the tetrachloroethene.	Catch basin is not a source of tetrachloroethene
August 5, 2008	Letter from Christopher O'Neill of DEC to Anthony Cardona, Esq. of Osborne Road Associates, LLC - DEC approval letter of Post-Demolition Site Remediation Work Plan, Community Air Monitoring Plan, Health and Safety Plan, Site Management Plan, Citizen Participation Plan, Site Map, and Fact Sheet.	Send final plans to DEC and DOH, and place copies in Document Repository (Sanford Library)	
August 17-27, 2010	Demolition of 253 Osborne Road building	Elevated PID readings noted at a few locations along concrete and cinder block foundation by Walgreens/URS Concrete and soil staged for further characterization URS	
September 13, 2010	Post-Demoiltion Site Investigation	19 soil and 8 groundwater samples collected. One soil sample had detection of PCE above unrestricted soil cleanup objective. Five groundwater samples above groundwater standard for PCE	Remove soil at location where cleanup objective was exceeded.
October 8, 2010	Sampling staged foundation concrete, cinder block, and soil materials	No detections of PCE	Treat as C&D
December 22, 2010	Letter from Jennifer Gillies and Galina Georgiew of URS to Brett Richer of Walgreen Co. documenting waste characterization and disposal of waste materials left at the former Citgo gasoline station southwest of 253 Osborne Road.	Appropriate disposal of six 55- gallon drums of non-hazardous waste (five solid and one liquid; one 55-gallon drum of hazardous waste benzene solution; 50 pounds of hazardous waste paint related materials; 25 pounds of haardous waste aerosol cans; 29 fluorescent lamps; 12 non-PCB ballasts; three fire extinguishers; one 55-gallon drum of oil stained soil, absorbent material, and a container with oily residue; one 5-gallon container of Serpiloc, and one air conditioner.	
December 22, 2010	Letter Report from Jennifer Gillies and Galina Georgiew of URS to Brett Richer of Walgreen Co. summarizing the excavation, field screening, and disposal of the 253 Osborne Road , 467 Albany Shaker Road, and 465 Albany Shaker Road building foundation materials for evidence of VOCs.	All building foundation materials were disposed as C&D debris.	
January 4, 2011	Letter from James Yuchniewicz of DEC to Brett Richer of Walgreen Co. coloing spill No. 06-03567.	Spill No. 06-03567 closed.	

**Table 1**  
**Summary of Investigations and Remediations Performed at 253 Osborne Road**

Report Dates	Actions	Findings	Recommendations
March 10, 2011	PDG-5 Soil Removal Remedial Action Work Plan - Revised March 10, 2011 submitted to DEC on March 15, 2011	Await DEC approval.	
April 27, 2011	Letter from Christopher O'Neill of DEC to Anthony Cardona of Osborne Road Associates, LLC and Dean Sommer, Esq. of Young Sommer and Associates, LLC approving the March 10, 2011 PDG-5 Soil Removal Remedial Action Work Plan.	PDG-5 Soil Removal Work Plan approved by DEC.	
May 9, 2011	March/April 2011 Progress Letter Report from William Miller of CPI to Chris O'Neill of DEC.	PDG-5 Soil Removal Work Plan approved by DEC and planning for the soil removal initiated.	Schedule PDG-5 soil removal
February 2, 2012	DEC Site Characterization prepared by Shaw - Summer 2011 drilling and monitoring well installation and vapor point installation, and soil, soil vapor, and groundwater sampling and analyses at 253 Osborne Road and adjacent commercial properties.	253 Osborne Road: Existing soil data indicated no areas of concern, none above relevant RSCOs for unrestricted use on site. Zone minor exceedance of PCE drinking water standard in one well (OS-1).	Evaluate potential for soil vapor intrusion in additional off-site buildings, and perform another round of groundwater sampling and analyses.

One soil sample from the bottom of each boring was sent to Upstate Laboratories, Inc. for VOC analyses. Soil samples from borings B-1 and B-2 were analyzed for VOCs by USEPA Method 8260, semi-volatile organic compounds (SVOCs) by USEPA Method 8270, and metals for waste characterization disposal purposes. Soil samples collected from borings B-3 through B-10 were analyzed VOCs by USEPA Method 8021. These analyses were performed to define the area of PCE contamination. One of the samples (B-6) exhibited a PCE concentration of 1,700 parts per billion (ppb). This concentration was above the DEC soil clean-up objective for PCE, which is 1400 ppb. One other sample also exhibited elevated concentrations of PCE (B-3 at 1,300 ppb) but below the soil clean-up objective. Summary tables of the analytical results for this soil sampling are provided in Appendix 2 and these results are also shown on Figure 7.

Based on the findings from the July 2003 groundwater and soil sampling events, the DEC was notified of the findings on September 4, 2003, a spill was reported, and the removal of the septic tank that formerly serviced the retail strip mall and the soils above DEC soil clean-up objective surrounding the septic system was proposed as an interim action. This reported spill was assigned No. 0305984.

### **3.2 2003 Septic System and Soil Removal Action**

The septic system removal, soil excavation, and off-site disposal/treatment of soil were performed in October 2003. Due to the shallow depth to bedrock and the lack of use of the overburden or bedrock groundwater as a drinking water source, emphasis was placed on removing the inactive septic tank (considered the source of the PCE) and PCE-impacted soil from the property.

Two hundred and thirty four tons of soil were excavated and manifested off-site to EMSI in Fort Edward, New York, a soil burning treatment facility, under the generator name of Edoral Realty Rentals. The metal septic tank was disposed off-site as scrap metal. Post-excavation sampling was performed and the soil quality results were submitted to DEC. The post-excavation soil quality results were all below NYSDEC soil clean-up criteria, although low levels of PCE were detected in the soil. The excavation was backfilled with clean pea gravel and covered with crusher run to allow this area to be used for parking. Figure 8 shows the areal extent of soil removal and the post excavation soil quality analytical results. The monitoring well installed in April 2003 (B-1/MW-1) was destroyed during this soil removal action, and was not replaced. Waste manifests, DEC approval letter for disposal at EMSI, and a post-excavation soil analytical result summary table are provided in Appendix 3. As a result of the excavation and post-confirmation soil quality data, DEC issued a November 14, 2003 letter closing the spill and requiring no further action, a copy of which is also provided in Appendix 3.

### **3.3 2007 Environmental Assessments and Investigations**

#### **3.3.1 Bureau Veritas Environmental Assessment**

Following the closure of the 2003 spill, the property changed ownership (from Edoral Realty Rentals to 253 Osborne Road Associates, LLC) and a portion of the building was subsequently demolished (in 2005). In preparation for another potential change of ownership, another Phase I and II environmental assessment was performed (by Bureau Veritas North America, Inc.) with sampling conducted in the area where the building was previously present and inside the remaining portion of the building. At this time, the building

was vacant. This sampling detected PCE-impacts to groundwater and soil at levels slightly above groundwater standards and soil clean-up criteria. As a result, DEC was notified and another spill number was assigned (Spill #0702543). The Bureau Veritas North America, Inc. (BV) report was provided to DEC. A summary of the analytical results generated by BV is provided in Appendix 4, and the BV sampling locations and results are provided on Figures 9 and 10.

### **3.3.2 September 2007 Soil and Groundwater Delineation**

In response to this 2007 spill notification, DEC requested additional delineation of the extent of PCE in soil and groundwater. Therefore, in September of 2007 eight borings were advanced surrounding the 253 Osborne Road building, thirteen soil samples were collected for laboratory analyses, eight permanent monitoring wells were installed, and eight groundwater samples were collected and laboratory analyzed. The monitoring wells were also surveyed for location and top of casing elevations. The location of the borings and wells are provided in Figure 11. Groundwater elevation contour maps are provided as Figures 12 and 13.

On September 24 and 25, 2007, Aquifer Drilling and Testing, Inc. (ADT) of Troy, New York drilled and constructed eight monitoring wells at 253 Osborne Road. The borings were advanced utilizing the hollow stem augers. CPI supervised the drilling and well installation, and performed the soil and groundwater sampling. Adirondack Environmental Services, Inc. performed the laboratory analyses. Soil and groundwater analytical result summary tables are provided in Appendix 5.

During the drilling, ADT continuously collected split spoon soil samples and CPI field screened the soil samples with a 10.6 electronvolt (Ev) Mini-Rae photoionization detector. CPI then collected and appropriately containerized soil samples for laboratory analysis using the USEPA Method 8260. NYSDEC was notified of the work performed on the Site prior to commencement.

The following soil samples were submitted for laboratory analyses:

OS-1/12 (12 to 12.7 feet)	OS-6/3 (2 to 4 feet)
OS-2/13 (12 to 14 feet)	OS-6/9 (8 to 10 feet)
OS-3/12 (10 to 12 feet)	OS-7/5 (4 to 6 feet)
OS-4/5 (4 to 6 feet)	OS-7/9 (8 to 10 feet)
OS-4/9 (8 to 10 feet)	OS-8/5 (4 to 6 feet)
OS-5/5 (4 to 6 feet)	OS-8/15 (14 to 16 feet)
OS-5/11 (10 to 12 feet)	

Six soil samples showed detections of VOCs from four boring locations. During this September 2007 Phase II investigation, PCE was detected in 5 of the 13 soil samples but all below the DEC soil cleanup criteria of 1.3 parts per million (ppm). PCE was detected in soil samples only from borings OS-1, OS-7, and OS-8 at concentrations ranging from 24 to 190 microgram per kilogram (ug/kg). Acetone was also detected in a soil sample from boring OS-6 at 22 ug/kg. These soil analytical results are shown on Figure 14 and in Table 1 in Appendix 5.

After each boring was completed, a two-inch, PVC monitoring well was constructed in the bore hole. The wells were completed with two-inch diameter PVC well casings, five or ten-foot well screens, and flush-mount caps. Two wells (OS-3 and OS-8) were constructed with

ten-foot screens because these locations exhibited greater saturated thicknesses. The wells were subsequently developed and sampled. The wells/borings also were surveyed to establish location and elevation to allow determination of groundwater elevations from which groundwater flow direction can be established. Table 2 in Appendix 5 summarizes the well construction details, measuring point elevations, and groundwater elevations for the eight wells. Geologic logs for the borings are also provided as Appendix 5.

Groundwater sampling and depth to groundwater measurements was performed on September 27, 2007. A minimum of 3 purge volumes of water was removed from each well prior to sampling using a submersible pump. The wells were then sampled with bailers for the analysis of VOCs using the USEPA Method 8260. VOCs were detected in four wells. PCE was detected in wells OS-1, OS-7, and OS-8 at 430, 42, and 67 micrograms per liter (ug/l), respectively. Vinyl chloride was detected in well OS-2 at 22 ug/l. These results are also summarized on Table 1 in Appendix 5. OS-1 was re-sampled on October 5, 2007 to confirm the level of PCE detected, and the laboratory result for this sample was 410 ug/l, which confirmed the level of PCE at this location. Figure 15 shows the well locations and groundwater concentrations for this investigation.

Figures 12 and 13 show the well locations and groundwater elevation contours. As shown, the groundwater flow direction is to the northwest. Since the OS-1 monitoring well location exhibits the highest PCE concentration in groundwater, this led to the conclusion that the second septic system at 253 Osborne Road, located between OS-1, OS-2, and OS-8, could be a source of PCE to the sub-surface. Additional investigation was recommended. These data results and recommendations were provided to DEC in an October 11, 2007 letter report prepared by CPI.

### **3.3.3 October 2007 Soil, Groundwater, and Septic System Investigation**

In addition to the septic system removed during the 2003 remediation, there was a second septic system reported on the property. This septic system was reported to be northwest of the site building and it reportedly was not utilized by the side of the building occupied by the former dry cleaner. This second septic system had not been investigated as part of the 2003 environmental studies. Based on the results of the September 2007 investigations (Well OS-1), this septic system was suspected to be another potential source of PCE.

ADT of Troy, New York mobilized a geoprobe direct-push rig to the site on October 26, 2007 and advanced seven additional soil borings. Four of these were placed inside the existing building, downgradient from the Bureau Veritas (BV) HA-1 boring that had the highest PCE soil quality detection in the recent (2007) investigations. Three more were placed downgradient of dry wells reportedly connected to the septic tank northwest of the site building and upgradient of the monitoring well (OS-1) exhibiting the highest PCE groundwater concentration (see Figure 16).

In addition, MPC Construction Services (MCP) of Schenectady, New York mobilized to the site on October 30, 2007 to expose and open the septic tank and dry wells on the northwest side of the site building, and CPI collected water and sludge samples from the septic tank, and a soil sample from the single dry well that was located. A test pit was also dug and a soil sample was collected approximately 15 feet downgradient from the septic dry well; between the dry well and OS-1 monitoring well location and west of the three geoprobe borings. All soil, water, and sludge samples were analyzed by Adirondack Environmental Services, Inc. for VOCs using USEPA Method 8260.

The depth to bedrock in all the borings was approximately 12 feet; refusal was encountered in one boring (G-2) inside the building at 5.7 feet. The soil materials encountered were as observed in the previous investigations; fine sand and silt.

The laboratory analytical results for these additional sampling events are summarized in Table 1 in Appendix 6, and plotted on a site sketch provided as Figure 16. The laboratory results showed that the PCE levels in the soil below the building from borings (G-1, G-2, G-3, and G-4) ranged from 17 to 200 ug/kg. One 1,2,4-trichlorobenzene detection was reported in sample G-1/4-8 at 5 ug/kg. Soil samples were collected from shallow and deep soil horizons in three of the inside the building borings. This established that the area of higher PCE concentrations in soil (at HA-1) was limited to the immediate area around that boring.

The laboratory results for the soil samples downgradient of the septic dry well(s) (Borings G-5, G-6, G-7, and Test Pit BH-1) all showed no detections of PCE, or any VOC. In historical interviews with the previous property owner, two dry wells were reportedly associated with this septic tank. MCP excavated all along the north side of the building and did not find a second dry well.

The laboratory results for the septic tank water showed a PCE level of 26 ug/l and a chlorobenzene level of 18 ug/l. PCE was not detected in the septic tank sludge but chlorobenzene was detected at 5 ug/kg; no other VOCs were detected. VOCs were also not detected in the soil sample collected from the bottom of the dry well reportedly connected to the septic tank. This septic tank has not been in use since the late 1960's.

As discussed, PCE was not detected above the DEC soil clean-up criteria in any soil sample, including the septic tank dry well and test pit. It was detected in the septic tank water (at 26 ug/l) but not in the septic tank sludge. The results from this investigation were provided to the DEC in a November 2007 letter report prepared by CPI with the recommendation to remove the soil in the area where Bureau Veritas detected soil above the DEC soil clean-up criteria, pump out the septic tank northwest of the site building, and perform a soil vapor assessment at 253 Osborne Road. Summary tables of the analytical results generated during this investigation are provided in Appendix 6. Figure 16 also summarizes the analytical results from this sampling event.

### **3.3.4 253 Osborne Road Soil Vapor Investigation**

In late November 2007, twelve air samples were collected at and adjacent to 253 Osborne Road by Alpine Environmental Services, Inc. (Alpine) using laboratory supplied summa canisters for TO-15 VOC analyses. Of the twelve samples, three were sub-slab soil vapor samples from inside the existing 253 Osborne Road building, three were air samples from inside the 253 Osborne Road building at the sub-slab sample locations, two were exterior soil vapor samples on the 253 Osborne Road property, three were exterior soil vapor samples collected from the downgradient (relative to groundwater flow) neighboring property (469-471 Albany Shaker Road), and one was an ambient exterior air sample collected on the 253 Osborne Road property. The sampling locations and analytical results are shown on Figure 17 and a summary table of the ambient air and soil vapor analytical results is provided in Appendix 7. Alpine's report without the laboratory Form 1's is provided in Appendix 7. All laboratory analytical data has been previously submitted to DEC.

Soil vapor levels of PCE ranged from 80 to 49,000 micrograms per cubic meter (mcg/m<sup>3</sup>). There was a single detection of TCE (sub-slab below the building basement) at 41 mcg/m<sup>3</sup>.



Much of the TCE analytical results were generally inconclusive due to matrix interference from the PCE levels resulting in elevated detection limits. The highest PCE concentrations were observed north of the 253 Osborne Road building. Several other VOCs not associated with dry cleaning chemicals were also sporadically detected in several of the soil gas samples and typically at low levels. These included acetone, chloroform, isopropyl alcohol, carbon disulfide, and benzene.

Detectable levels of PCE and TCE in ambient air were only observed at one location, which was inside the basement of the 253 Osborne Road building. A PCE level of 3.6 mcg/m<sup>3</sup> was detected in the basement air sample. However, the building was not heated at the time of the sampling, which can bias the results low. Several other VOCs were also sporadically detected in the ambient air samples and typically at low levels. These included acetone, Freon 12, isopropyl alcohol, 2-butanone, 1,2,4-trimethylbenzene, chloromethane, and ethanol. The findings from the ambient air and soil vapor investigation were provided to the NYSDEC in a December 27, 2007 letter report prepared by CPI.

The conclusions from that the soil vapor investigation are that levels of PCE and TCE are detectable in the soil vapor at 253 Osborne Road and the adjoining neighboring property (469 Albany Shaker Road). When the observed concentration levels are applied to the NYSDOH Soil Vapor/Indoor Air Decision Matrices, mitigation is recommended.

The commercial reuse for the 253 Osborne Road property included demolition of the structure and reconstruction. A sub-slab de-pressurization system was recommended for any structure built on this property. Additional indoor air, sub-slab vapor, and groundwater sampling was recommended for the 469-471 Albany Shaker Road property to assess whether a sub-slab de-pressurization system would be appropriate for that building.

### **3.4 Septic Tank Pump-Out**

The water in the septic tank on the northwestern side of the 253 Osborne Road building (see Figure 2) was pumped out on December 3, 2007 and 1,360 gallons of the septic tank water was transported to United Oil Recovery in Meriden, Connecticut for treatment and disposal. A hazardous waste manifest for the transport and disposal was provided to DEC and the State of Connecticut. A copy of the manifest is provided in Appendix 8. Documentation of this removal action was provided to the NYSDEC in a December 27, 2007 letter report prepared by CPI.

### **3.5 2007 Soil Removal Action**

MPC Construction Services, LLP of Schenectady, New York mobilized to the site on December 3, 2007 and, as another remedial measure, excavated 190.96 tons of soil from the HA-1 soil sampling location. Figure 18 shows the excavation area. Cedar Hill Trucking, Inc. of Selkirk, New York transported the soil to EMSI of New York in Fort Edward, New York for thermal treatment. Transportation manifests for the transport and disposal, and a DEC approval for disposal at EMSI are provided in Appendix 9.

This excavation area was inside the building, in the former Print Shop. The dimension of the excavation was 18 feet in the north-south direction, 20 feet in the east-west direction, and 12 feet deep. The excavation extended to building foundations on the north, east, and south sides. Groundwater was encountered at approximately 9 feet below grade.

Five post-excavation soil samples were collected for VOC analyses. One grab soil sample was collected from each side wall and one grab soil sample was collected from the base of the excavation. The laboratory results are summarized in Table 1 provided below and Figure 18. As shown, remaining soil concentrations at 253 Osborne Road are below the DEC 1.3 ug/kg soil clean-up criteria.

**Table 2**  
**Post-Excavation Soil Analytical Result Summary**  
**253 Osborne Road**  
**2007 Soil Removal Below Former Print Shop**

Sample ID	PC-1-E East Wall	PC-2-N North Wall	PC-3-W West Wall	PC-4-S South Wall	PC-5-B Bottom
Detected VOCs					
Tetrachloroethene	400	130	65	49	130
Trichloroethene	<10	<5	52	15	<5
cis-1,2-Dichloroethene	<10	<5	9	<5	<5

1. Concentrations in micrograms per kilogram (ug/kg); only detectable compounds listed.

Given that the post-excavation soil analytical results were below unrestricted soil cleanup criteria, DEC was verbally notified and the excavation was filled with clean fill on December 5, 2007. The documentation of this removal action was provided to the DEC in a December 27, 2007 letter report prepared by CPI.

### **3.6 2008 469-471 Albany Shaker Road Groundwater and Soil Gas Investigations**

In February and March 2008 groundwater and soil gas sampling was performed at the neighboring 469-471 Albany Shaker Road property pursuant to a January 4, 2008 work plan and a February 12, 2008 work plan revision letter, which were approved by DEC. The following sections describe the scope and findings from these investigations.

#### **3.6.1 Monitoring Well Installation and Sampling**

In February 2008, four borings were advanced and permanent monitoring wells were installed at 469-471 Albany Shaker Road. These four wells supplement the 8 wells that were installed at 253 Osborne Road. The locations of these borings are shown on Figure 19.

During the drilling, split spoon soil samples were collected on standard five-foot intervals and the soil samples were field screened with a 10.2 electronvolt (Ev) Hnu. Boring logs are provided in Appendix 10. Since the field screening did not detect any evidence of VOCs, one soil sample per boring was collected and appropriately containerized for laboratory analysis using the USEPA Method 8260.

The following soil samples were submitted for laboratory analyses:

OS-9/11 (10 to 12 feet)	OS-11/26 (25 to 27 feet)
OS-10/11 (12 to 12 feet)	OS-12/26 (25 to 27 feet)

Two of the four soil samples showed detections of VOCs. PCE was detected in soil samples only from borings OS-9 and OS-10 at concentrations of 9 and 36 microgram per kilogram (ug/kg), respectively. Acetone was detected at 12 ug/kg in the OS-9 soil sample. No other VOCs were detected. As shown on Figure 19, the sampling locations where VOCs were detected are closest to 253 Osborne Road.

The soils encountered were primarily fine to medium sands with some silt. A thin (approximately one foot) layer of till was encountered immediately above bedrock. Depth to bedrock at 469-471 Albany Shaker Road ranged from 14.6 to greater than 37 feet. Depth to bedrock was established at three locations (OS-9, OS-10, and OS-11). At OS-12, the boring was advanced to 37 feet ending in till. Based on all the other borings (OS-1 through OS-11) drilled in the area, the till is relatively thin (approximately 1 foot) and bedrock is likely less than forty below grade at OS-12. Figure 20 provides top of bedrock elevation contours.

After each boring was completed, a two-inch, PVC monitoring well was constructed in each bore hole. The wells were completed with two-inch diameter PVC well casings, five or ten-foot well screens, and flush-mount caps. Two wells (OS-9 and OS-12) were constructed with ten-foot screens because these locations exhibited greater saturated thicknesses. The wells were subsequently developed and sampled. The wells/borings also were surveyed to establish location and elevation to allow determination of groundwater elevations from which groundwater flow direction can be established. Table 1 in Appendix 10 summarizes the well construction details, measuring point elevations, and groundwater elevations for the four wells at 469-470 Albany Shaker Road and the eight wells at 253 Osborne Road. The geologic logs with well construction descriptions for these four borings are also provided in Appendix 10.

Groundwater sampling was performed on March 3, 2008. A minimum of 3 purge volumes of water was removed from each well prior to sampling using a submersible pump; purge water was containerized and subsequently disposed. The wells were then sampled with bailers for the analysis of VOCs using the USEPA Method 8260.

VOCs were detected in all four wells. PCE was detected in wells OS-9, OS-10, OS-11, and OS-12 at 22, 770, 13, and 35 micrograms per liter (ug/l), respectively. TCE was detected in OS-10 at 120 ug/l. Acetone was detected in OS-9, OS-10, OS-11, and OS-12 at 17, 60, 12, 13 ug/l, respectively. The laboratory flagged the OS-9, OS-11, and OS-12 acetone detections with a "B" in that acetone was detected in the method blank. Methylene chloride was also detected in OS-11 at 6.4 ug/l. These results are summarized on Table 2 in Appendix 10. The highest VOC concentrations (at OS-10) are closest to 253 Osborne Road. The groundwater laboratory reports were provided to DEC in an April, 8, 2008 report. Figure 21 shows the well locations and groundwater concentrations for this investigation.

A round of groundwater levels were measured in the 253 Osborne Road wells and the 469-471 Albany Shaker Road wells on March 11, 2008. Figure 22 shows the well locations and groundwater elevation contours for the March 11, 2008 measurements. As shown on Figures 22, the groundwater flow direction is to the northwest. Figure 23 shows a cross-sectional perspective of the depth to bedrock and groundwater elevation across 253 Osborne Road and 469-471 Albany Shaker Road. Note there is a relatively steep drop in bedrock elevation and groundwater elevations at 469-470 Albany Shaker Road.

The findings from this investigation were reported in an April 8, 2008 letter report prepared by CPI that was submitted to the DEC. In that report it was recommended that a sub-slab depressurization system be installed in the 469-471 Albany Shaker Road building.

### **3.6.2 469-471 Albany Shaker Road Soil Vapor Investigation**

Alpine mobilized to 469-471 Albany Shaker Road on March 7, 2008 and collected nine air samples using laboratory supplied summa canisters for VOC analyses. Of the nine samples, four were sub-slab soil vapor samples from inside the existing 469-471 Albany Shaker Road building, four were air samples from inside the 469-471 Albany Shaker Road building at the sub-slab sample locations, and one was an ambient exterior air sample collected on the 469-471 Albany Shaker Road property. The sampling locations are shown on Figure 24.

Alpine's report summarizing the findings is provided as Appendix 11. Figure 24 summarizes the ambient air and soil vapor analytical results. One of the ambient air samples (#2 in the Chinese Restaurant) was compromised at the laboratory and could not be analyzed. Indoor and outdoor ambient air concentrations were all non-detectable for PCE or TCE. Sub-slab levels of PCE ranged from non-detectable to 910 micrograms per cubic meter (mcg/m<sup>3</sup>); TCE was not detected in any sub-slab vapor samples. The highest PCE concentrations were observed closest to the 253 Osborne Road building.

When compared to the New York State Department of Health (DOH) document Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Decision Matrix #2 for PCE, indicates "monitor" with the exception of sample #1, the kitchen area of the Chinese Restaurant, which produced a "no further action" result. Soil Vapor/Indoor Air Decision Matrix 1 for TCE could not be used due to interference from detected levels of PCE in the sub-slab vapor samples. The dilution during laboratory analysis (required to quantify the PCE concentrations) caused the detection limit for TCE to be elevated above the highest indoor air level on the Decision Matrix. As indicated above, none of the indoor air or sub-slab vapor samples detected TCE above detection limits. These results were provided to DEC in an April 8, 2008 letter report prepared by CPI and Alpine.

### **3.7 Catch Basin Sampling and Laboratory Analyses**

In an effort to further assess the elevated concentrations of PCE at the northwestern property line of 253 Osborne Road, water and sediment in a storm water catch basin along the northwestern property line (see Figure 2) were sampled in April 2008 and laboratory analyzed for VOCs. No VOCs were detected in the catch basin water or sediment. The findings from this sampling and analysis were provided in a May 6, 2008 letter report that was submitted to the DEC.

### **3.8 Post-Demolition Soil and Groundwater Investigation**

This section presents the results of soil and groundwater sampling below the footprint of the former 253 Osborne Road building which was demolished by the present owner of the property.

On September 13 and 14, 2010, ADT of Troy, New York utilized a GeoProbe direct-push soil sampler to collect soil samples and to collect ground water samples from within the footprint of the former 253 Osborne Road building in accordance with a June 17, 2008 DEC approved work plan. CPI supervised the drilling and performed the soil and groundwater sampling.

On September 17, 2010 Albany Tank Services of Ravenna, New York excavated a test pit. CPI supervised the test pitting and collected two soil samples from the test pit. Test America performed the VOC laboratory analyses for the soil and groundwater samples using Method 8260. Summaries of the soil and groundwater analytical results are provided in Appendix 12. The analytical data were validated by Alpha Geoscience and no data was qualified by the validator as either estimated or unusable. The data validation report is provided in Appendix 12.

During the drilling, ADT continuously collected acetate sleeve soil samples and CPI field screened the soil samples with a Mini-Rae photo-ionization detector. CPI then collected and appropriately containerized soil samples for laboratory analysis. The boring and well locations are shown on the attached Figure 25. Geologic logs for the borings and the test pit are provided as Appendix 12. In general, the overburden soil material was brown fine sand and silt and the bedrock was grey shale. Varying amounts of fill (concrete) was present in several locations. The depth to bedrock varied from 4.5 to 16 feet below grade.

The following soil samples were submitted for laboratory analyses:

PDG-1S/5-7'	PDG-6S/2-4'
PDG-1D/9-10'	PDG-6D/5-7'
PDG-2S/5-7'	PDG-7S/2-4'
PDG-3S/2-3'	PDG-7D/5-7'
PDG-3D/3-4.5'	PDG-8S/6-7'
PDG-4S/5-7'	PDG-8D/13-15'
PDG-4D/8-10'	PDG-9S/6-8'
PDG-5S/4-5'	PDG-9D/13-15'
PDG-5D/9-11'	TP-PD1/2-4'
	TP-PD2/7-9'

Sixteen of the nineteen soil samples had detections of VOCs. Table 1 in Appendix 12 summarizes the validated soil laboratory analytical results. Figure 26 shows the boring locations and soil concentrations for this investigation. Only one soil sample from the commercially zoned property had concentrations above the Part 375 unrestricted use soil cleanup objective. Sample PDG5S/4-5' had a tetrachloroethene (PCE) concentration of 8,300 micrograms per kilogram (ug/kg), which is greater than the PCE unrestricted soil cleanup value of 1,300 ug/kg. No other detected VOC had concentrations above the unrestricted soil cleanup objectives. The detectable concentrations were generally within the applicable restricted residential standards for soil cleanup. The PDG-5 boring was located adjacent to the former location of the dry cleaner and immediately adjacent to a now inactive natural gas line where previous soil removal actions had been restricted due to the presence of a then active natural gas line.

After each boring was completed, eight groundwater samples were collected for VOC analysis using Method 8260. A peristaltic pump was used to collect groundwater samples from seven of the nine GeoProbe borings. Boring PDG-3 was sampled with a bailer due to lack of yield from that boring, and a sample was not collected from boring PDG-6 because it was a dry hole. VOCs were detected in seven of the eight groundwater samples. VOCs were not detected in the PDG-7 sample. VOCs were detected above the drinking water standards in five samples (PDG-1, PDG-2, PDG-5, PDG-8, and PDG-9). A summary of the validated groundwater analytical results and data validation report are provided in Table 2 in Appendix 12. Figure 27 shows the GeoProbe boring locations and groundwater

concentrations for this investigation. The findings and analytical results from this investigation were provided to DEC in an October 14, 2010 letter report prepared by CPI.

### **3.9 Staged Demolition Debris Sampling and Waste Disposal**

During the demolition of 253 Osborne Road, and the neighboring 465 and 467 Albany Shaker Road, URS, a Walgreen Company contractor, field screened the foundation materials of all site buildings, and segregated materials that exhibited field screening evidence of the presence of VOCs. URS also identified other wastes associated with 465 and 467 Albany Shaker Road and 253 Osborne Road and had these materials waste characterized and appropriately disposed. Two letters prepared by URS that document these activities are provided in Appendix 13.

At 253 Osborne Road, a two-gallon container of used oil had been abandoned along the northeastern property boundary and was observed by DEC on September 13, 2010. DEC requested that a spill be called in by URS for this container and the area be and used oil be appropriately cleaned up and disposed. This spill was issued spill number 1006400. URS placed the used oil container in a 5-gallon pail, and oil impacted soil and absorbent in another 5-gallon pail. On November 5, 2010 URS had a waste contractor (MC Environmental Services, Inc.) removed the oil from 253 Osborne Road and appropriately dispose of it as non-hazardous waste at United Recycling in Bridgeport, Connecticut. DEC issued a spill closer letter dated January 4, 2011, which is provided in Appendix 13.

On October 8, 2010, Continental Placer Inc. (CPI) sampled the concrete and cinder block foundation materials and soil that were staged on and under polyethylene at 253 Osborne Road during the demolition of the building formerly at that address. The approximate locations of these staged material piles are shown on the attached Figure 28. Twelve concrete samples and three soil samples were collected and analyzed for volatile organic compounds using Method 8260 by Test America.

There were three piles of concrete and cinder block foundation materials and soil staged at 253 Osborne Road. Each of the piles was screened with a photo-ionization detector (PID) for the presence of VOCs prior to any sample collection and no elevated readings indicating the presence of VOCs were measured. The concrete and soil were also visually inspected for staining and no staining was observed. Eight samples were collected from the pile closest to Osborne Road, two from the small pile just northwest of that pile, and five from the concrete closer to the neighboring 469-471 Albany Shaker Road property. Samples with a 'CC' label are composite concrete samples and samples with a 'CG' label are grab concrete samples. Likewise, soil samples with a 'SC' label are soil composite samples and soil samples with a 'SG' label are soil grab samples.

The pile closest to Osborne Road was comprised of concrete and cinder block foundation material and soil. Five concrete samples and three soil samples were collected from this pile. There were approximately 11 pieces of concrete and cinder block (ranging in size of approximately 1 x 3 x 3 feet to 1.5 x 3 x 10 feet) and approximately one cubic yard of soil staged on polyethylene at this location. The small pile just northwest of the first pile was comprised of two concrete pieces that were approximately 1.5 x 5 x 5 feet. Two concrete samples were collected from this pile; one composite from each concrete piece. The third pile was comprised of five concrete and cinder block pieces ranging in size from approximately 1.5 x 3 x 15 feet to 3 x 3 x 5 feet. Five concrete samples were collected from this pile; one composite from each concrete piece. Photographs of the staged material are provided as Appendix 13.

Concrete chips were hammered off the concrete at regular intervals across the concrete pieces and then crushed in dedicated aluminum pans with a de-contaminated rock hammer to a fine to coarse sand prior to containerization. Two soil samples from the first staged pile were collected at discrete locations in the southwest (SG-2) and northeast (SG-3) portions of the soil pile. A composite soil sample was collected by scooping soil from across the soil pile into a dedicated aluminum pan, mixing the sample, and then placing soil from the soil mixture into a laboratory container.

The concrete and soil samples were hand-delivered to the Test America service center on Kraft Avenue in Albany, New York and subsequently overnight shipped by Test America to their laboratory in Buffalo, New York for analysis. No site contaminants of concern were detected in the concrete samples. Only trace levels of tetrachloroethene (PCE) were detected in two of the soil samples. Low levels of common laboratory contaminants (methylene chloride and acetone) were detected in the concrete samples, and in one of the soil samples. These compounds are not contaminants of concern at the 253 Osborne Road site and the trace detections are attributable to cross-contamination at the laboratory. A summary of the analytical results for demolition debris is provided in Appendix 13. These findings were provided to DEC in an October 26, 2010 letter report prepared by CPI.

PCE was detected only in the two soil grab samples at 8.6 micrograms per kilogram (ug/kg) in SG-2 and an estimate 3.2 ug/kg in the SG-3 sample, which are well below the unrestricted use soil clean-up objective of 1,300 ug/kg for PCE. The laboratory compounds detected in the concrete and soil samples were at very low levels. All methylene chloride detections were below 5.5 ug/kg, and acetone detections were all below 40 ug/kg. These detections are not representative of the staged material but are instead related to the use of these compounds at the laboratory.

Given the lack of detection of the PCE and its breakdown products in the staged concrete and cinder block materials, CPI recommended that these concrete and cinder block materials be managed as on-site fill or, as an alternative, disposed off-site as construction and demolition materials. These materials were subsequently disposed off-site as construction and demolition debris in accordance with NYSDEC approval.

### **3.10 Shaw's 2011 Site Characterization Investigation**

In 2011, DEC had Shaw Environmental & Infrastructure Engineering of New York, P. C. (Shaw) perform a site characterization (SC) investigation at 253 Osborne Road and 469-471 Albany Shaker Road. The purpose of this SC was to delineate the extent of impacts to soil, groundwater, and soil gas at adjacent parcels of commercial properties and determine the need for soil, groundwater and/or soil vapor intrusion monitoring and/or mitigation for the other commercial properties. Nine monitoring wells and nine permanent soil-vapor points were installed in the area downgradient from 253 Osborne Road.

During the installation of the wells and soil-vapor points, soil samples were collected for geologic logging and fifteen soil samples were submitted for VOC, SVOC, PCB and metals laboratory analyses. The analyzed soil samples were labeled as follows:

MW-5 (24'-26')	MW-1 (11'-13')
MW-5A (25'-27')	MW-7 (23'-25')
MW-3 (11'-13')	SG-3 (7'-8')
MW-4 (17'-19')	SG-8 (7'-8')

MW-6 (24'-26')	SG-5 (5'-7')
MW-8 (25'-29')	SG-9 (7'-8')
MW-8 (34'-37')	SG-4 (5'-7')
MW-2 (9'-13')	

Shaw also collected eleven vapor samples (SG-1 through SG-9) for VOC laboratory analyses (9 soil gas plus a duplicate and an ambient air sample) using EPA Method TO-15. Groundwater sampling was also performed in eighteen monitoring wells using low flow sampling techniques (MW-1, MW-2, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, OS-1, OS-2, OS-3, OS-4, OS-6, OS-9, OS-10, OS-11, and OS-12). The low flow samples were analyzed for VOCs, SVOCs, and metals. Samples from three wells (MW-1, MW-2, and MW-8) were also analyzed for PCBs. Passive diffusion bags were also placed in wells MW-1, MW-2, MW-5A, MW-6, MW-7, MW-8, OS-1, OS-10, OS-11, and OS-12; these samples were analyzed for VOCs. The findings and excerpts from the Shaw SC final characterization report, including figures with sampling locations and results, are provided in Appendix 14.

None of the soil samples exceeded the DEC recommended soil cleanup objectives for residential use.

The soil vapor study focused on four target compounds (PCE, TCE, cis-1,2-dichloroethene, 1,1,1-trichloroethane). VOCs detected in soil vapor mirror the trends in groundwater. The ambient air PCE was detected in all nine soil gas samples and the duplicate sample at concentrations ranging from 0.28 µg/m<sup>3</sup> in SG-5 to 115,000 µg/m<sup>3</sup> in SG-1. TCE was detected in four of the nine soil gas samples and the duplicate sample collected at concentrations ranging from 0.87µg/m<sup>3</sup> in SG-5 and SG-6 to 340 µg/m<sup>3</sup> in SG-2. 1,1,1-TCA was also detected in four of the nine soil gas samples at concentrations ranging from 0.53 µg/m<sup>3</sup> in SG-6 to 21 µg/m<sup>3</sup> in SG-4. Cis-1,2-DCE was detected in two of the nine soil gas samples, SG-4 and SG-2 at concentrations of 0.67 µg/m<sup>3</sup> and 110 µg/m<sup>3</sup> respectively. The outdoor ambient sample did not detect any of the PCE, TCE, or DCE compounds of concern; however, low levels of other miscellaneous VOC compounds were detected in this sample. Historic uses that had taken place at the commercial properties were not identified in the study.

The August 2011 groundwater sampling event detected at least one analyte at concentrations at or above the NYSGWQS for VOCs in the samples collected from MW-1, MW-2, MW-5A, MW-6, MW-7, MW-8, OS-1, OS-10, OS-11 and OS-12. VOC results that exceeded water quality standards are as follows:

- PCE – 9.0 µg/l (MW-1); 7.4 µg/l (MW-2); 19 µg/l (MW-5A); 28 µg/l (MW-6); 18 µg/l (MW-7); 300\*\* µg/l (MW-8); 280 µg/l (OS-1); 370 µg/l (OS-10); 16 µg/l (OS-11) and 19 µg/l (OS-12);
- TCE – 13 µg/l (MW-8); 8.5 µg/l (OS-1) and 39 µg/l (OS-10);
- cis-1,2-DCE – 15 µg/l (OS-10);
- Vinyl Chloride – 7.6 µg/l (OS-2);

The VOC results from the passive diffusive bags were consistent with the low flow results.



The results from the soil, groundwater, and vapor sampling indicate that chlorinated VOCs impact groundwater and vapor downgradient from the 253 Osborne Road site. The source of the VOCs appears to originate from 253 Osborne Road. Shaw concluded the SC confirmed the off-site migration of VOCs in groundwater and soil vapor that warrant an evaluation of the potential for soil vapor intrusion to occur in additional off site buildings. Shaw also recommended another round of groundwater sampling and laboratory analyses.

#### **4.0 Data Quality**

All soil, water, and vapor samples collected during the investigations and remediation activities at 253 Osborne Road and surrounding areas were analyzed by laboratories approved by New York State through the Environmental Laboratory Approval Program (ELAP). Validation was not required for the investigations and interim remedial measures conducted under the spills program. Samples collected after 2010 were validated. No data quality problems were identified.

#### **5.0 Disposal of PCE-Impacted Soil and Water**

425 tons of soil have been transported off-site and disposed at EMSI in Fort Edward, New York, and 1,360 gallons of water (septic tank water and groundwater sampling purge water) were disposed at United Oil Recovery in Meriden, Connecticut. In 2003, 234 tons of soil were manifested off-site under the generator name of Edoral Realty Rentals at 253 Osborne Road. In 2007, 191 tons of soil and 1,360 gallons of water were manifested off-site under the generator name of 253 Osborne Road Associates c/o D'Agostino, Krackler, Baynes & Maguire at 16 Sage Estates, Menands, New York.

#### **6.0 Site Plans**

As part of these investigative and remedial measures, a records report was prepared by CPI in November 2008 that summarized all site activities up to that time. Also, the several plans were prepared to supplement work plans for further site investigations and final remediation activity. These included a Site Management Plan, a Health and Safety Plan, a Community Air Monitoring Plan, and a Citizen Participation Plan. All of these plans were submitted to DEC and included in the document repository at the Town of Colonie William K. Sanford library on Albany Shaker Road. The DEC approved these plans in an August 5, 2008 letter, which is provided as Appendix 15.

Following the September 2010 post-demolition soil and groundwater investigation, a PDG-5 Soil Removal Remedial Action Work Plan was prepared and then subsequently revised based on DEC comments. The revised Work Plan was submitted to DEC on March 15, 2011 and subsequently approved by DEC in an April 27, 2011 letter. The revised work plan, the DEC approval letter, and a March/April 2011 Progress Report acknowledging acceptance of DEC requested Work Plan modifications and a declaration of initiation of implementation of the work plan are provided in Appendix 15.

#### **7.0 Site Security**

Currently the site is undeveloped. A chain link security fence with a locked gate prevents access to the 253 Osborne Road site.

## **8.0 Summary and Conclusions**

Significant investigations and remedial actions have been performed at the 253 Osborne Road site (HW#401056) and the neighboring 469-471 Albany Shaker Road. The nature and extent of contamination at 253 Osborne Road has been defined. The primary contaminant of concern is the chlorinated solvent PCE (a solvent historically used in the dry cleaning industry) and its breakdown products (TCE and DCE). PCE is present in the groundwater above drinking water standards that may pose the potential for vapor intrusion into buildings above the contaminated groundwater at 253 Osborne Road and downgradient (northwest) of this property. Given these findings, it has been recommended that any structure ultimately constructed at 253 Osborne Road should have a sub-slab de-pressurization system incorporated, and installation of sub-slab de-pressurization systems in downgradient buildings should be considered. At present, there are no buildings constructed on the Site.

## **9.0 References**

Phase I Environmental Assessment & Limited Phase 2 Investigation, April 21, 2003, Prepared by CPI Environmental Services, Inc., Prepared for D'Agostino Krackler Baynes & Maguire PC.

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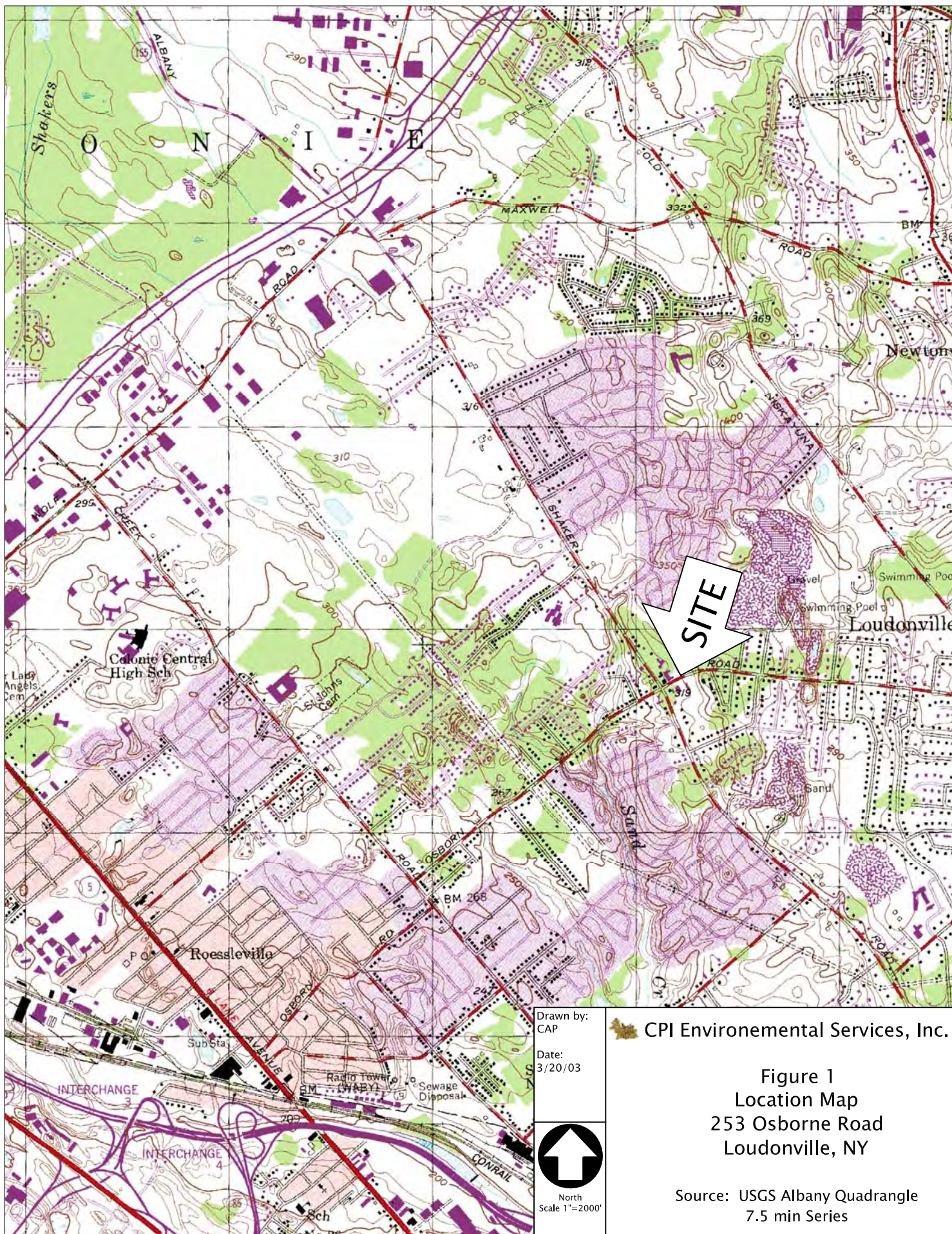
PDG-5 Soil Removal Remedial Action Work Plan – Revised March 10, 2011, HW#401056, prepared by Continental Placer Inc., Dated March 10, 2011, Submitted to DEC on March 15, 2011.

April 27, 2011 Letter from Christopher O'Neill of DEC to Tony Cardona of Osborne Road Associates, LLC and Dean Sommer, Esq. of Young Sommer and Associates, LLC approving the PDG-5 Soil Removal Remedial Action Work Plan with some minor modifications.

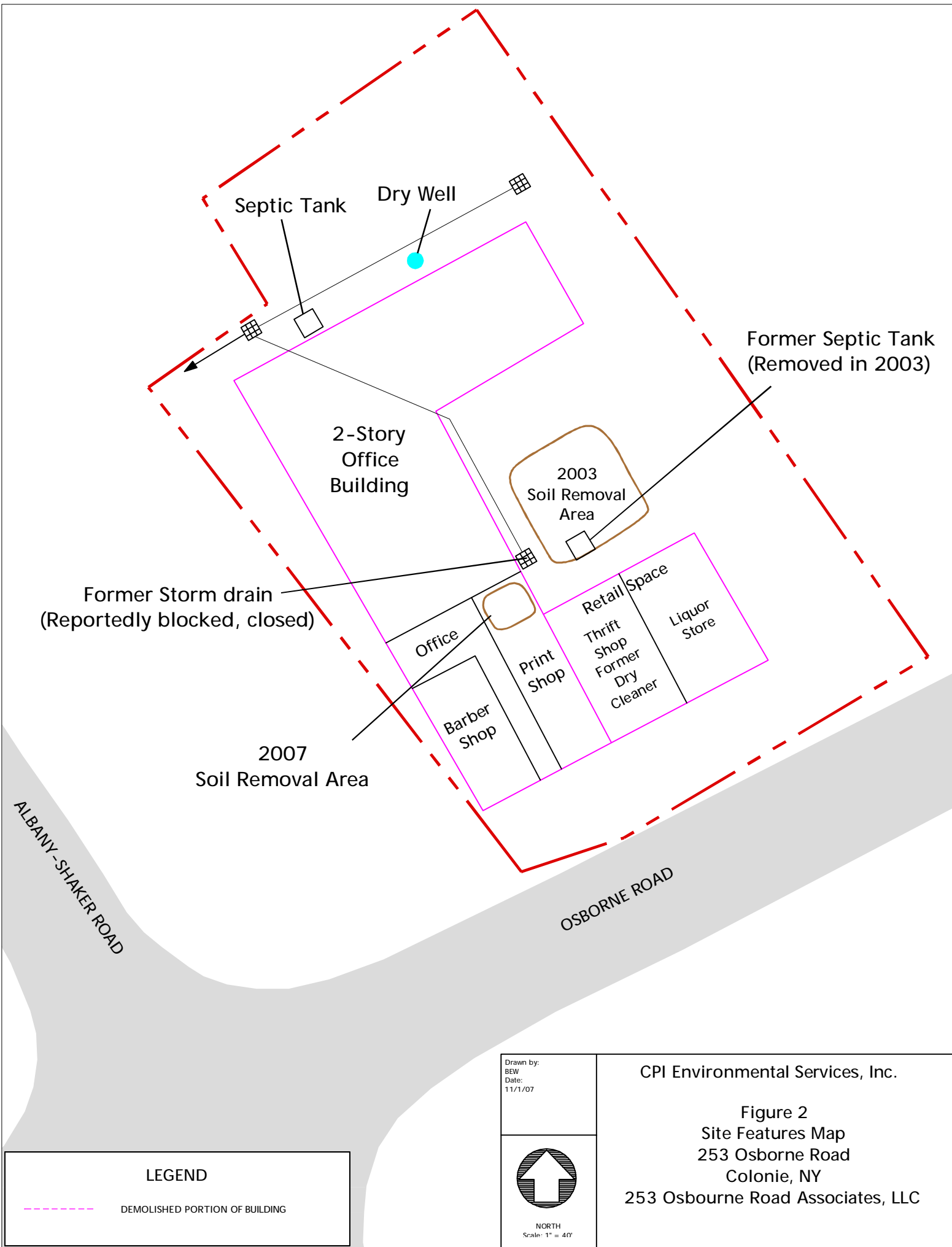
March/April 2011 Progress Report prepared by CPI and dated May 9, 2011, Submitted to Christopher O'Neill of DEC confirming approval of PDG-5 Soil Removal Remedial Action Work Plan, agreeing to DEC modifications, and initiation of planning to implement PDG-5 Soil Removal Work Plan.

## Figures





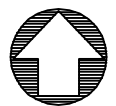




LEGEND

DEMOLISHED PORTION OF BUILDING

Drawn by:  
BEW  
Date:  
11/1/07



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 2  
Site Features Map  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC



# LEGEND



PCE

Total 1,2 - DCE

cis 1,2 - DCE

MC

TCE

IPB

MCH

ND

POST-DEMOLITION GEOPROBE LOCATION

POST-DEMOLITION TEST PIT LOCATION

TETRACHLOROETHENE

TOTAL 1,2 - DICHLOROETHENE

cis- 1,2 - DICHLOROETHENE

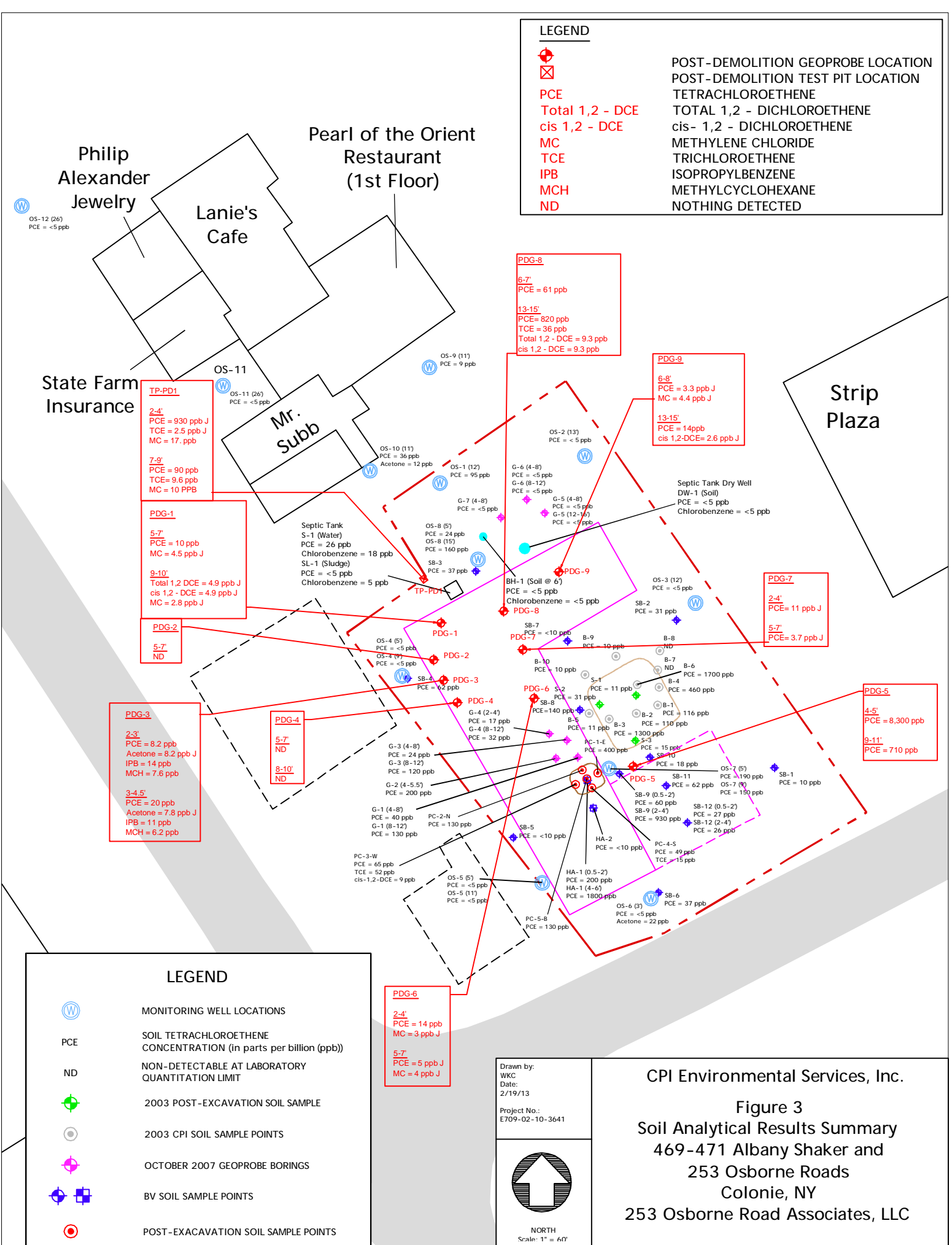
METHYLENE CHLORIDE

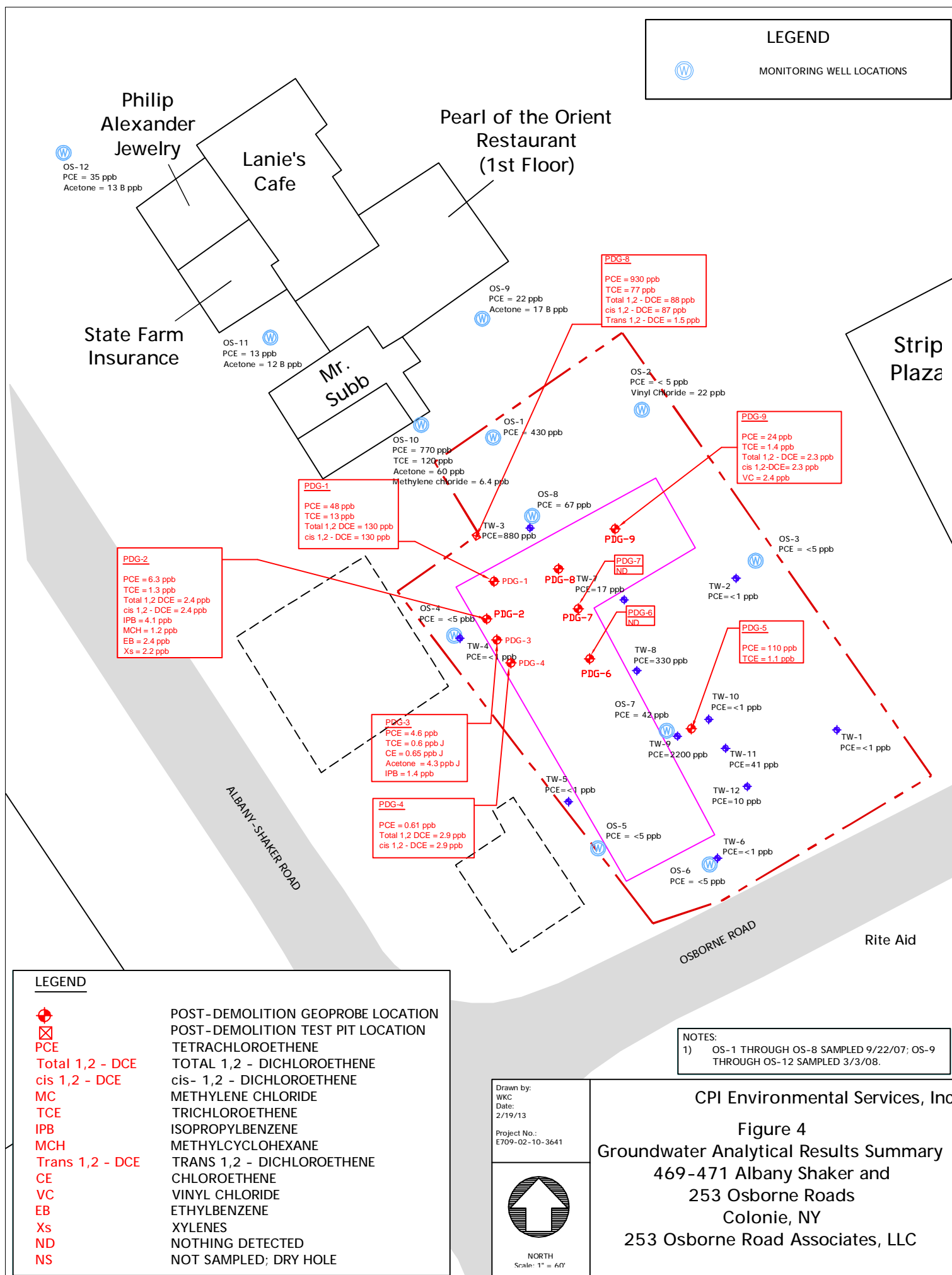
TRICHLOROETHENE

ISOPROPYLBENZENE

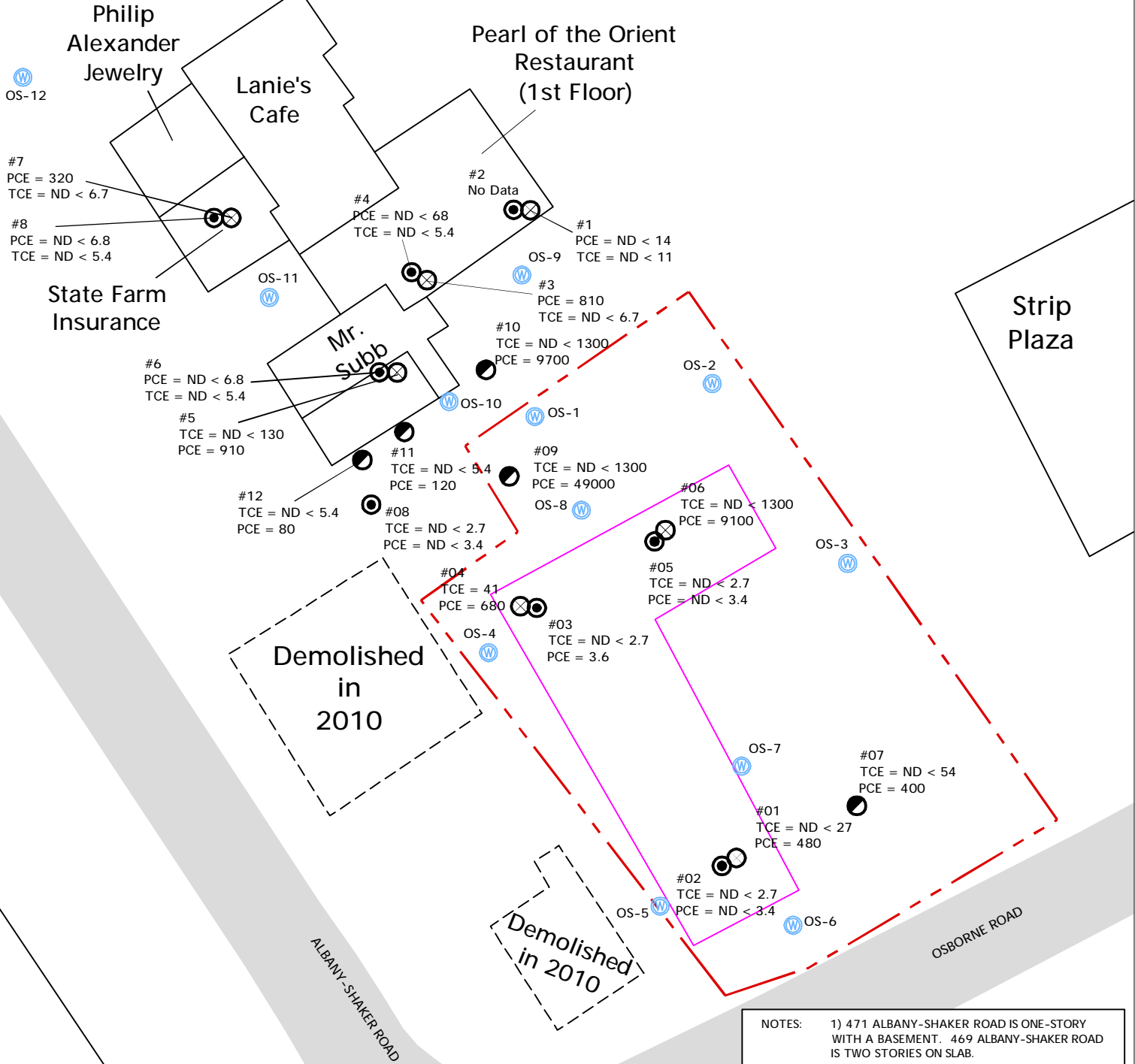
METHYLCYCLOHEXANE

NOTHING DETECTED





#9  
PCE = ND < 6.8  
TCE = ND < 5.4



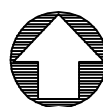
**NOTES:**

- 1) 471 ALBANY-SHAKER ROAD IS ONE-STORY WITH A BASEMENT. 469 ALBANY-SHAKER ROAD IS TWO STORIES ON SLAB.
- 2) 253 OSBORNE ROAD SAMPLES COLLECTED 11/28/07; 469-471 ALBANY-SHAKER ROAD SAMPLES COLLECTED 3/10/08.
- 3) ALL RESULTS IN MICROGRAMS PER CUBIC METERS OF AIR.

## LEGEND

- MONITORING WELL LOCATIONS
- SUB-SLAB SOIL VAPOR SAMPLE POINTS
- AMBIENT AIR SAMPLE POINTS
- SOIL VAPOR SAMPLE POINTS

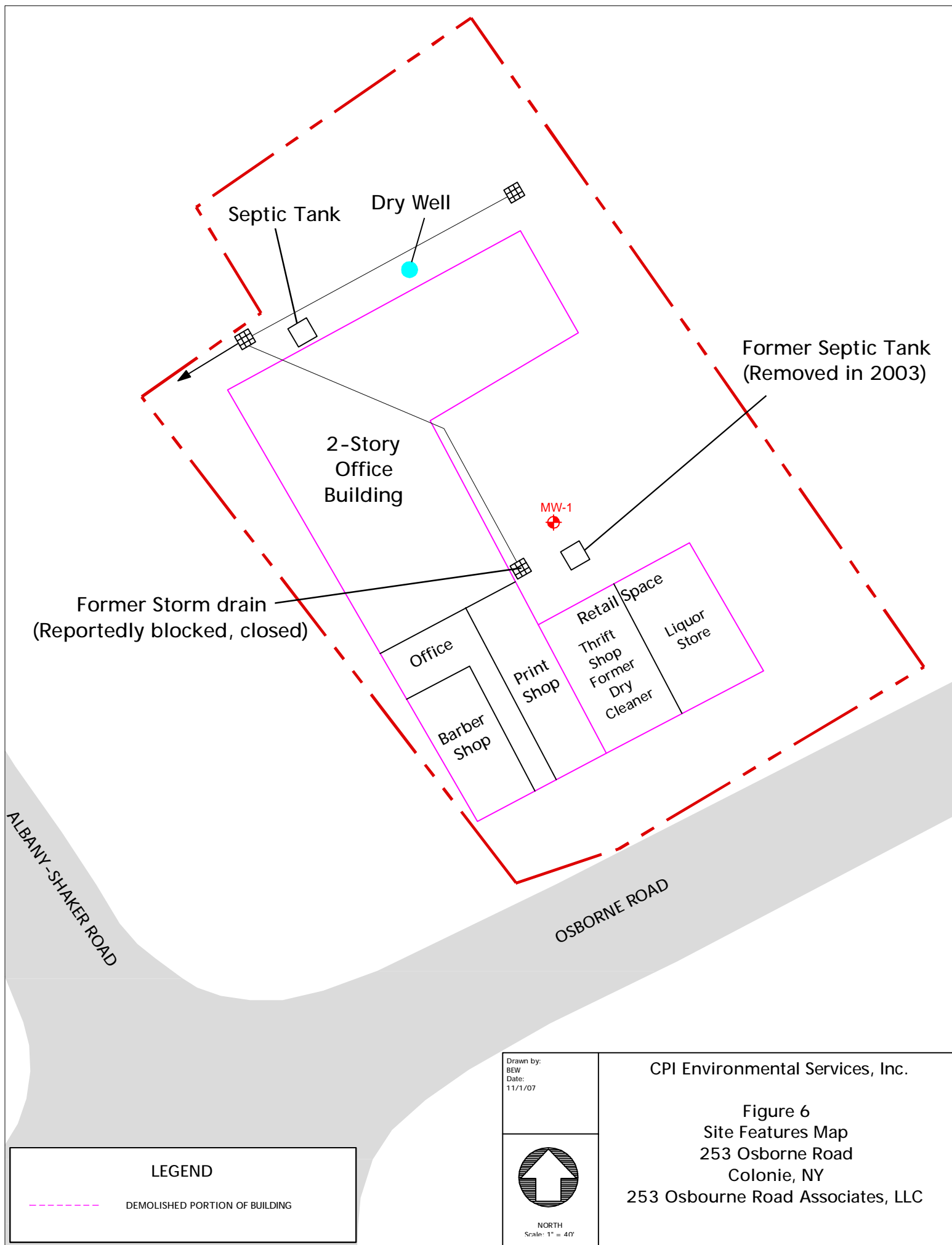
Drawn by:  
BEW  
Date:  
4/2/08



NORTH  
Scale: 1" = 60'

CPI Environmental Services, Inc.

**Figure 5**  
**Soil Vapor and Ambient Air**  
**Analytical Results Summary**  
**Colonie, NY**  
**253 Osborne Road Associates, LLC**



469-471  
Albany-Shaker Road

Strip Plaza

Approximate Limit  
of Excavation

B-9  
PCE = 10 ppb

B-10  
PCE = 10 ppb

B-6  
PCE = 1700 ppb

B-4  
PCE = 460 ppb

B-1  
PCE = 116 ppb

B-2  
PCE = 110 ppb

B-3  
PCE = 1300 ppb

B-5  
PCE = 11 ppb

MW-1

B-8  
ND

B-7  
ND

Former Citgo  
Service &  
Filling  
Station

OSBORNE ROAD

Rite Aid

NOTES: CPI BORING SOIL SAMPLE COLLECTED ON  
JULY 30, 2003. POST-EXCAVATION SOIL  
SAMPLES COLLECTED ON OCTOBER 8, 2003.

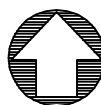
#### LEGEND

PCE SOIL TETRACHLOROETHENE  
CONCENTRATION (in parts per billion (ppb))

ND NON-DETECTABLE AT LABORATORY  
QUANTITATION LIMIT

● 2003 CPI SOIL SAMPLE POINTS

Drawn by:  
BEW  
Date:  
10/10/07



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 7  
2003 PCE Concentrations in Soil  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC

469-471  
Albany-Shaker Road

Strip Plaza

Dry Well

Septic Tank

Former Storm drain  
Reportedly blocked, closed)



Former Citgo  
Service &  
Filling Station

OSBORNE ROAD

Rite Aid

NOTES: CPI BORING SOIL SAMPLE COLLECTED ON  
JULY 30, 2003. POST-EXCAVATION SOIL  
SAMPLES COLLECTED ON OCTOBER 8, 2003.

### LEGEND

PCE	SOIL TETRACHLOROETHENE CONCENTRATION (in parts per billion (ppb))
ND	NON-DETECTABLE AT LABORATORY QUANTITATION LIMIT
	2003 POST-EXCAVATION SOIL SAMPLE
	2003 CPI SOIL SAMPLE POINTS

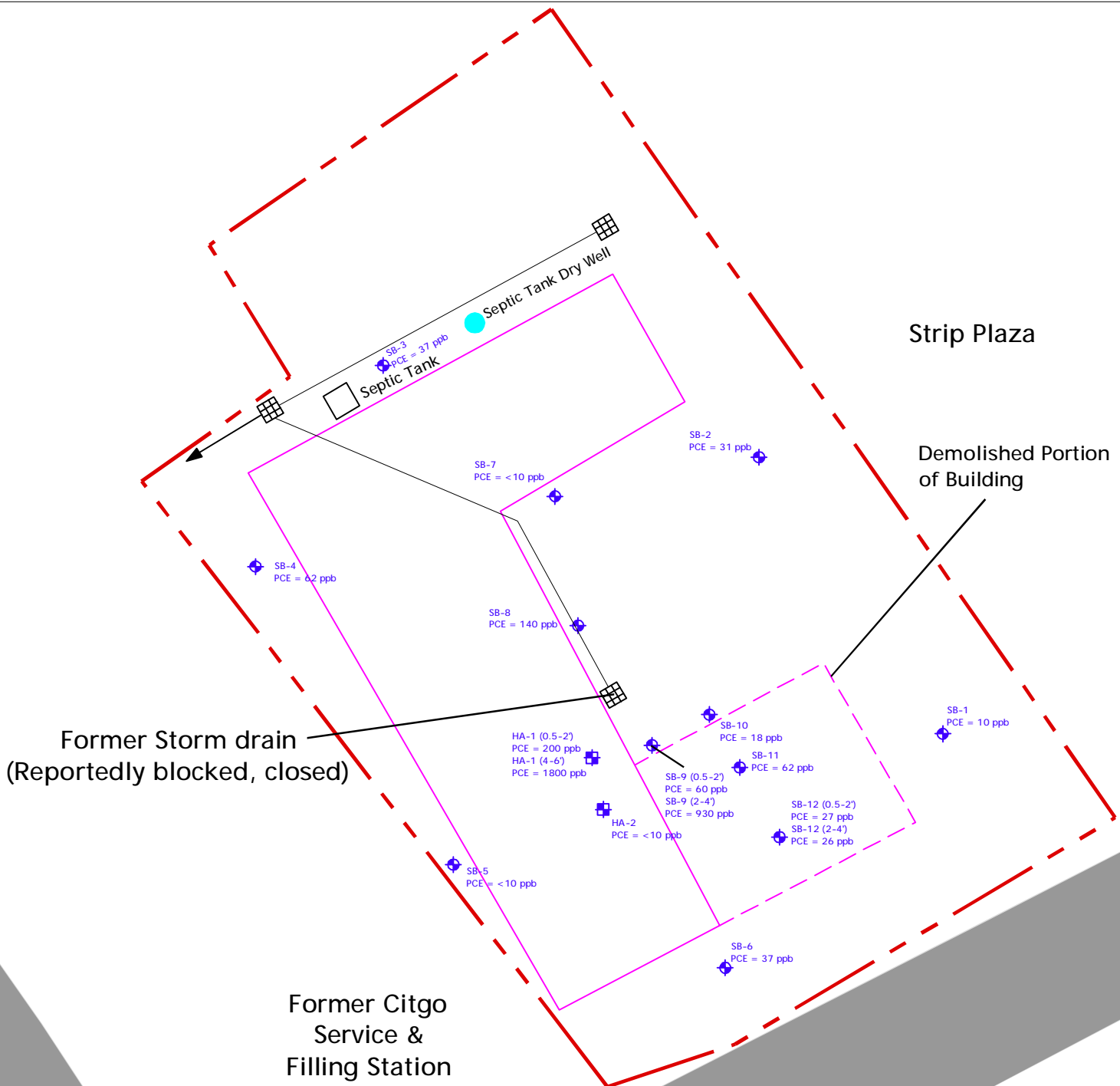
Drawn by:  
BEW  
Date:  
12/19/07



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 8  
2003 Excavation Area and Soil Analytical  
Results Summary  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC



NOTES:A: BV SOIL SAMPLES COLLECTED ON MAY 8, 2007.  
TWO SOIL SAMPLES WERE COLLECTED FROM  
HA-1, SB-9 AND SB-12

Drawn by:  
BEW  
Date:  
10/10/07

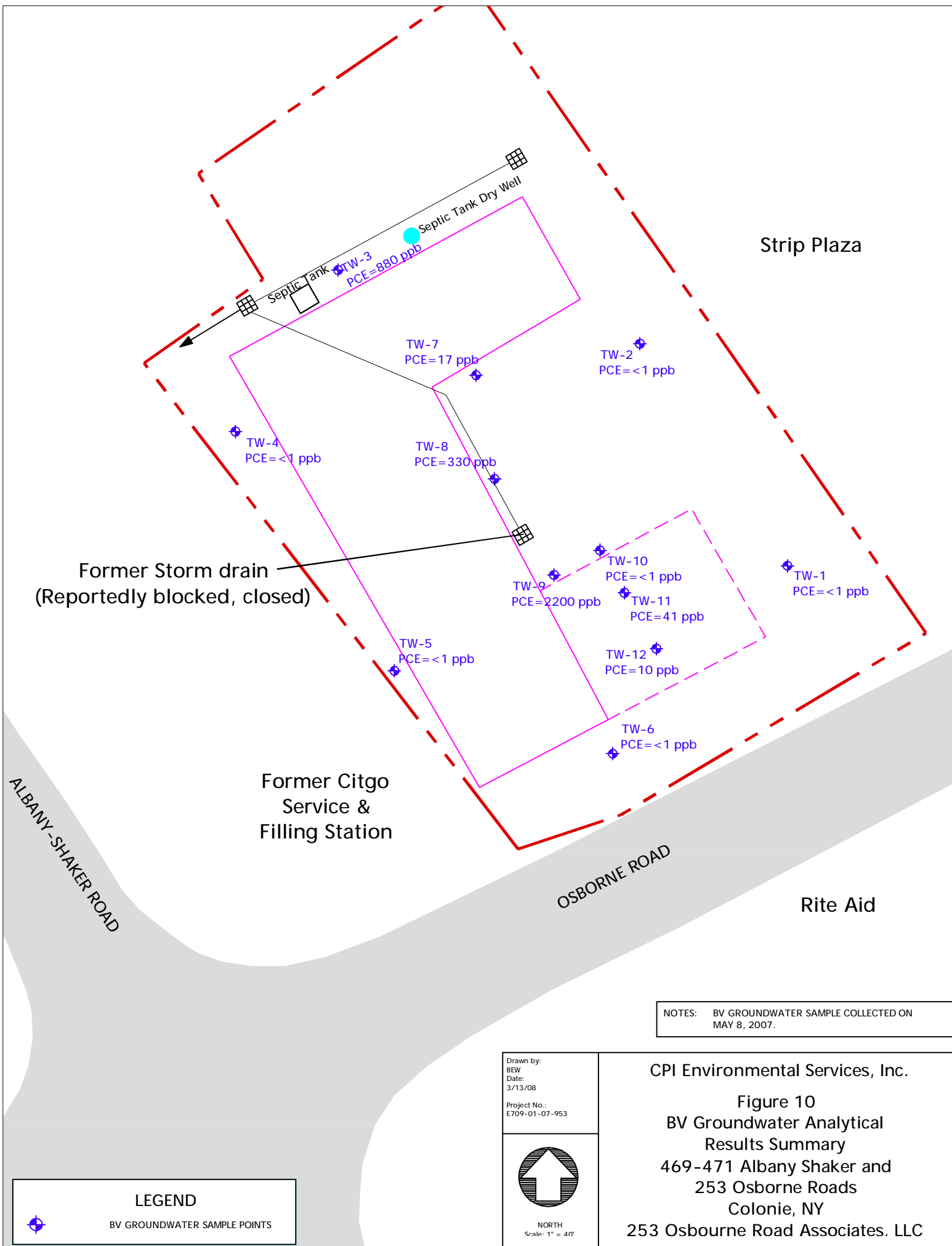
NORTH  
Scale: 1" = 40'

**LEGEND**

BV SOIL SAMPLE POINTS  
 SOIL/GROUNDWATER CONCENTRATIONS

CPI Environmental Services, Inc.

Figure 9  
BV Soil Analytical Results Summary  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC



CPI Environmental Services, Inc.

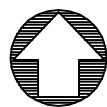
Figure 10  
BV Groundwater Analytical  
Results Summary  
469-471 Albany Shaker and  
253 Osborne Roads  
Colonie, NY

253 Osbourne Road Associates. LLC





Drawn by:  
BEW  
Date:  
10/10/07



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 11  
2007 Well Location Map  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC









469-471  
Albany-Shaker  
Road

OS-2 (13')  
PCE = < 5 ppb

OS-1 (12')  
PCE = 95 ppb

OS-8 (5')  
PCE = 24 ppb  
OS-8 (15')  
PCE = 160 ppb

Approximate Limit  
of Excavation

OS-3 (12')  
PCE = < 5 ppb

Strip Plaza

Demolished Portion  
of Building

OS-4 (5')  
PCE = < 5 ppb  
OS-4 (9')  
PCE = < 5 ppb

OS-7 (5')  
PCE = 190 ppb  
OS-7 (9')  
PCE = 150 ppb

OS-5 (5')  
PCE = < 5 ppb  
OS-5 (11')  
PCE = < 5 ppb

OS-6 (3')  
PCE = < 5 ppb  
Acetone = 22 ppb

Former Citgo  
Service &  
Filling Station

OSBORNE ROAD

Rite Aid

#### LEGEND



2007 MONITORING WELL LOCATIONS

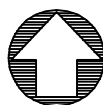
PCE

SOIL TETRACHLOROETHENE  
CONCENTRATION (in parts per billion (ppb))

ND

NON-DETECTABLE AT LABORATORY  
QUANTITATION LIMIT

Drawn by:  
BEW  
Date:  
10/10/07



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 14  
September 2007 Soil Analytical  
Results Summary  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC

469-471  
Albany-Shaker  
Road



OS-1  
PCE = 430 ppb

OS-2  
PCE = < 5 ppb  
Vinyl Chloride = 22 ppb



OS-8  
PCE = 67 ppb

Approximate Limit  
of 2003 Excavation

OS-3  
PCE = < 5 ppb



OS-4  
PCE = < 5 ppb



OS-7  
PCE = 42 ppb



OS-5  
PCE = < 5 ppb



OS-6  
PCE = < 5 ppb



Former Citgo  
Service &  
Filling Station

Strip Plaza

Rite Aid

OSBORNE ROAD

ALBANY-SHAKER ROAD

#### LEGEND



MONITORING WELL LOCATIONS

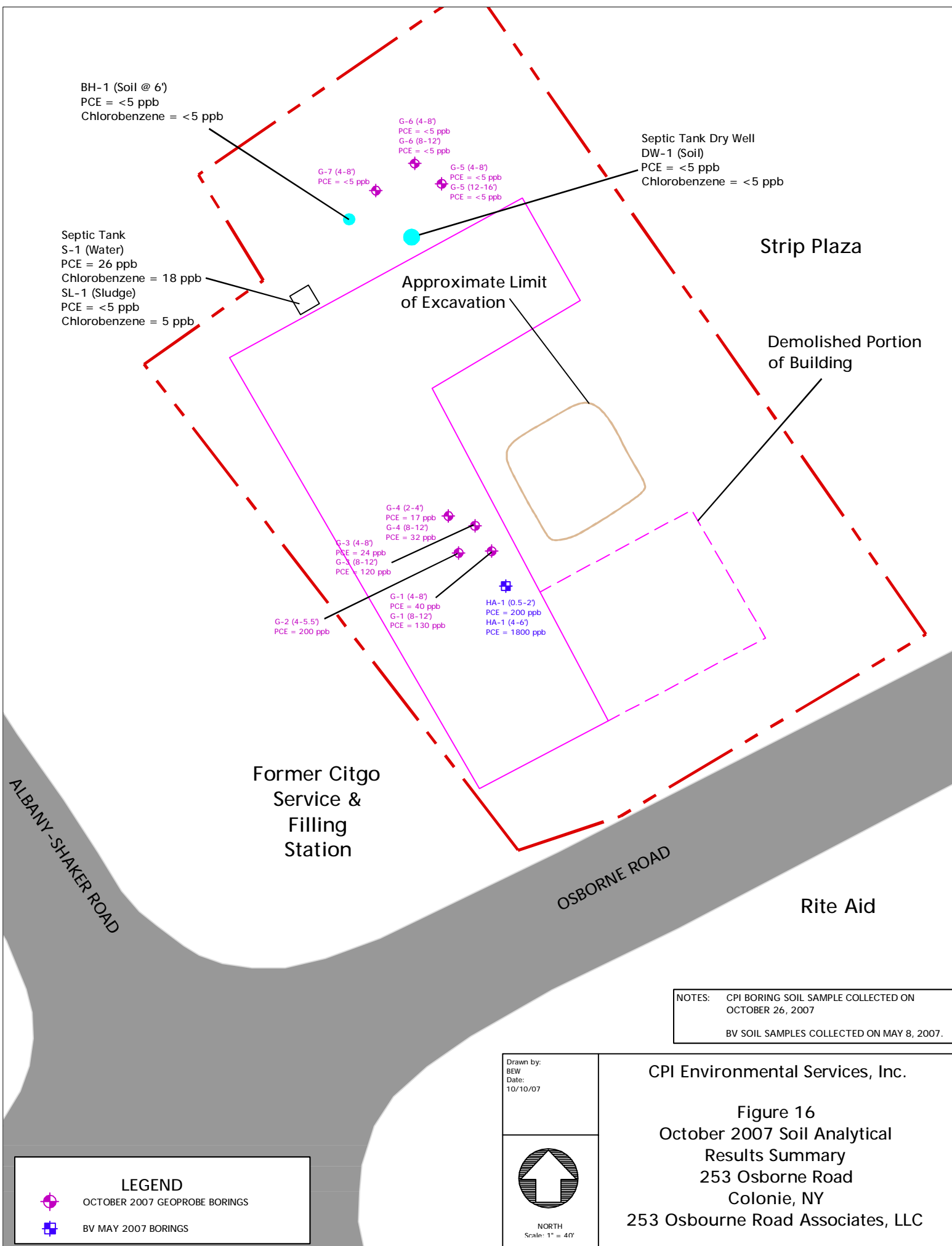
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Date:  
3/13/08



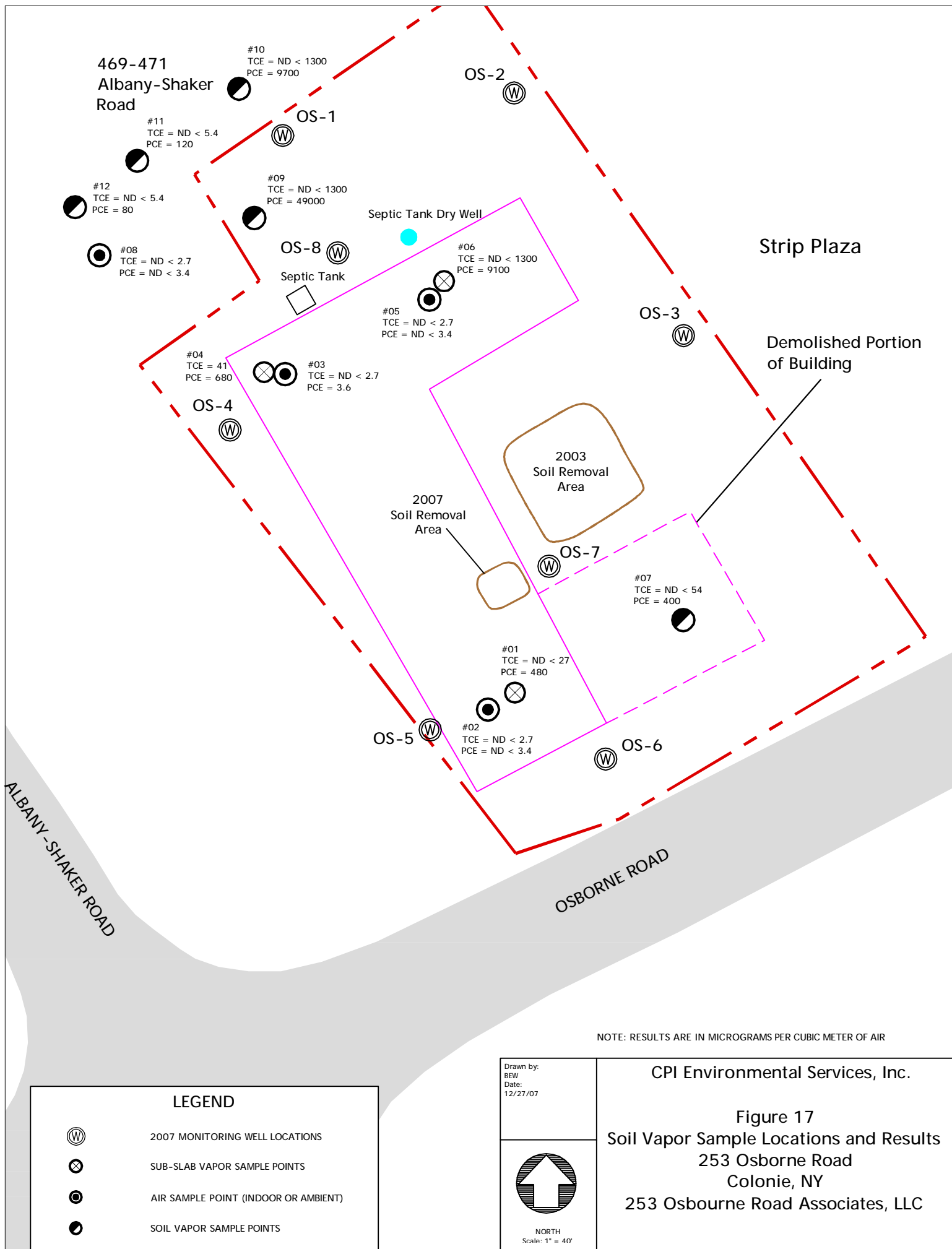
NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 15  
September 2007 Groundwater Analytical  
Results Summary  
253 Osborne Roads  
Colonie, NY  
253 Osbourne Road Associates, LLC







2-Story  
Office Building

2007  
Soil Removal Area

Demolished Portion  
of Building

2003  
Soil Removal  
Area

PC-3-W  
PCE = 65 ug/kg  
TCE = 52 ug/kg  
cis-1,2-DCE = 9 ug/kg

PC-2-N  
PCE = 130 ug/kg

PC-1-E  
PCE = 400 ug/kg

Office

PC-5-B  
PCE = 130 ug/kg

PC-4-S  
PCE = 49 ug/kg  
TCE = 15 ug/kg

Thrift Shop  
Former  
Dry Cleaner

Liquor  
Store

Retail Space

Print  
Shop

Barber  
Shop

LEGEND

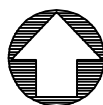
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DEMOLISHED PORTION OF BUILDING



POST-EXCAVATION SOIL SAMPLE POINTS

Drawn by:  
BEW  
Date:  
12/19/07

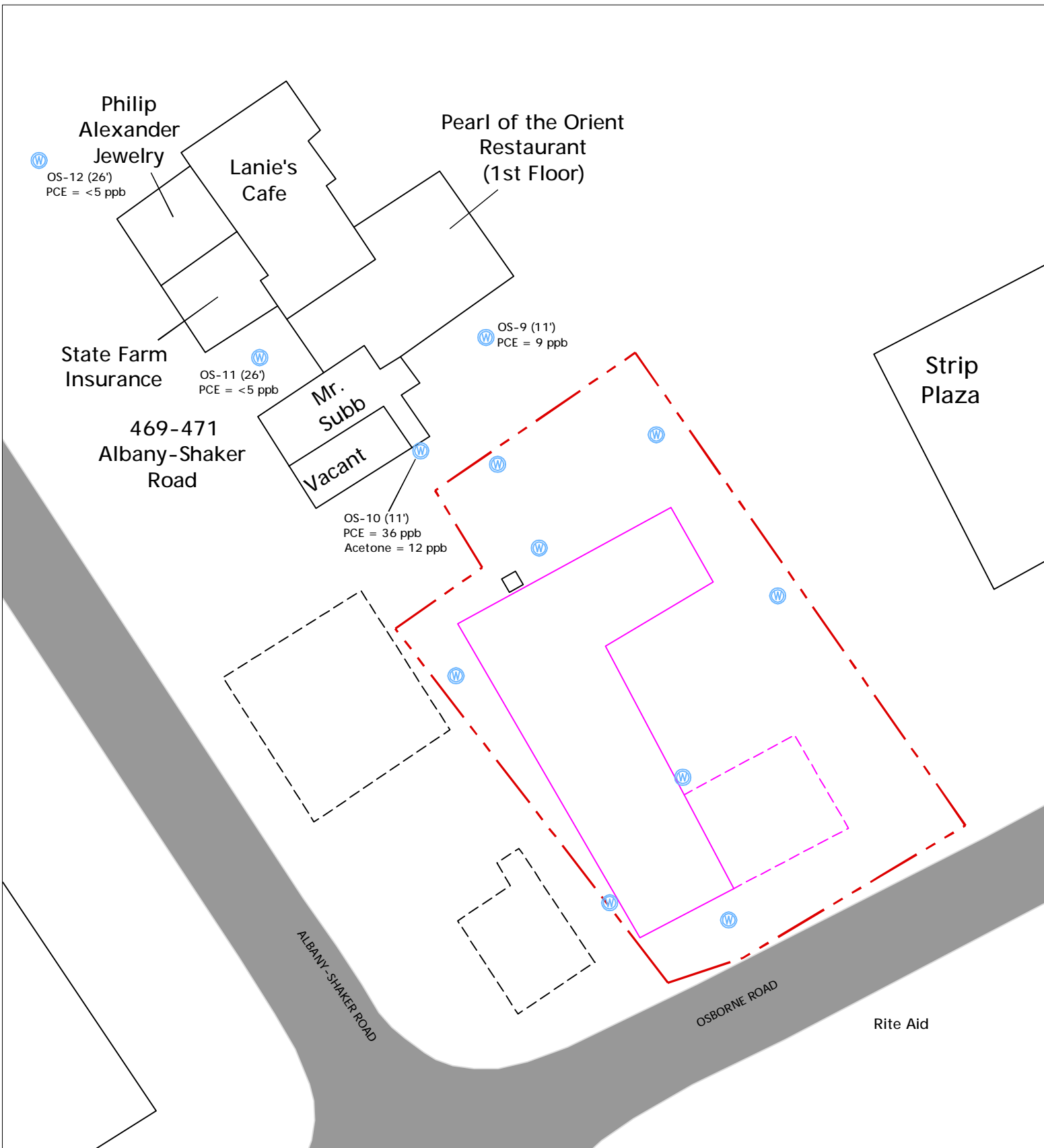



NORTH  
Scale: 1" = 20'

CPI Environmental Services, Inc.

Figure 18  
2007 Post-Excavation  
Soil Sampling Results  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC







MONITORING WELL LOCATIONS

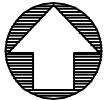
PCE

SOIL TETRACHLOROETHENE  
CONCENTRATION (in parts per billion (ppb))

ND

NON-DETECTABLE AT LABORATORY  
QUANTITATION LIMIT

Drawn by:  
BEW  
Date:  
3/13/08  
Project No.:  
E709-01-07-953



NORTH  
Scale: 1" = 60'

CPI Environmental Services, Inc.

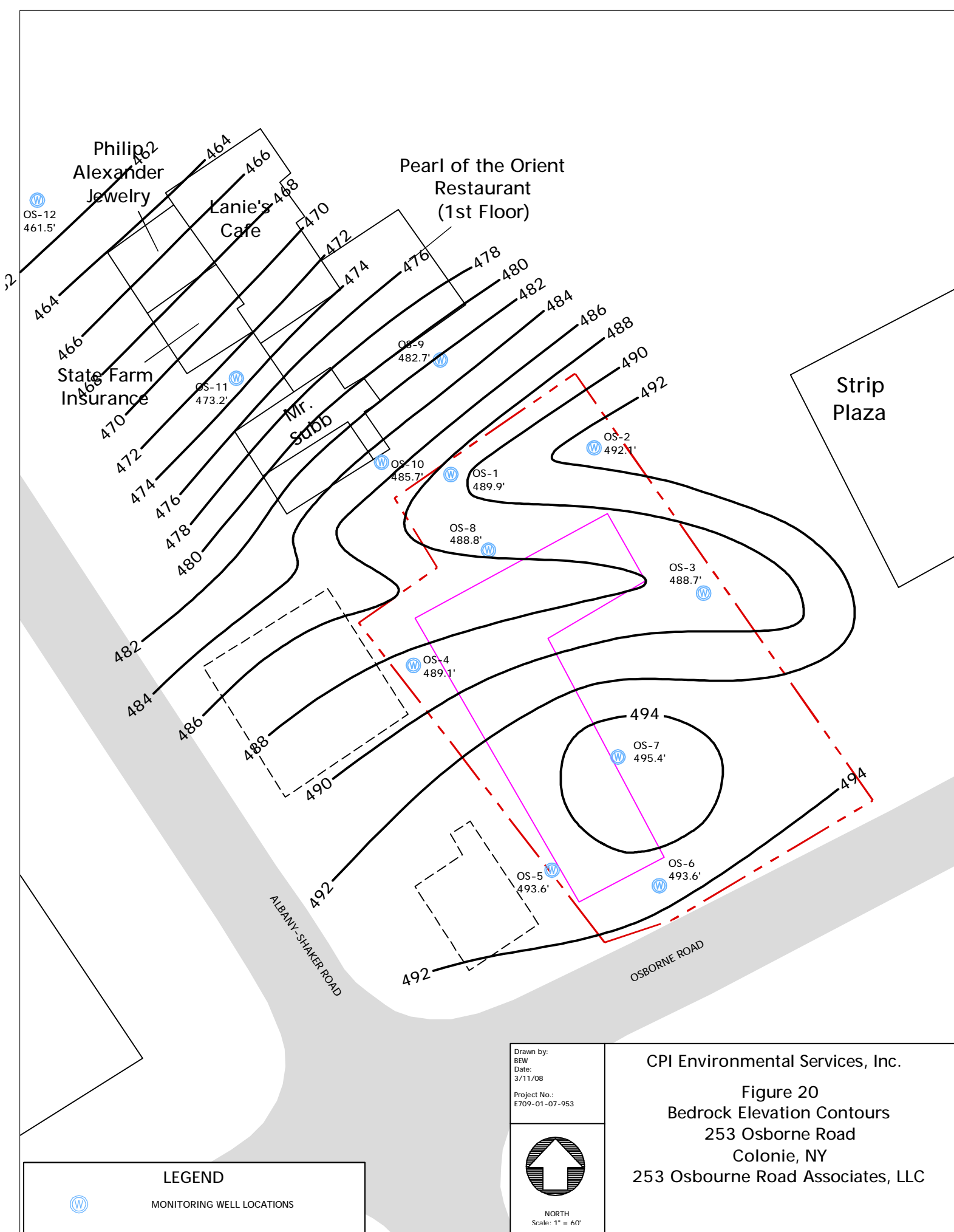
Figure 19

Soil Analytical Results Summary

469-471 Albany Shaker

Colonie, NY

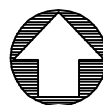
253 Osborne Road Associates, LLC



LEGEND



MONITORING WELL LOCATIONS

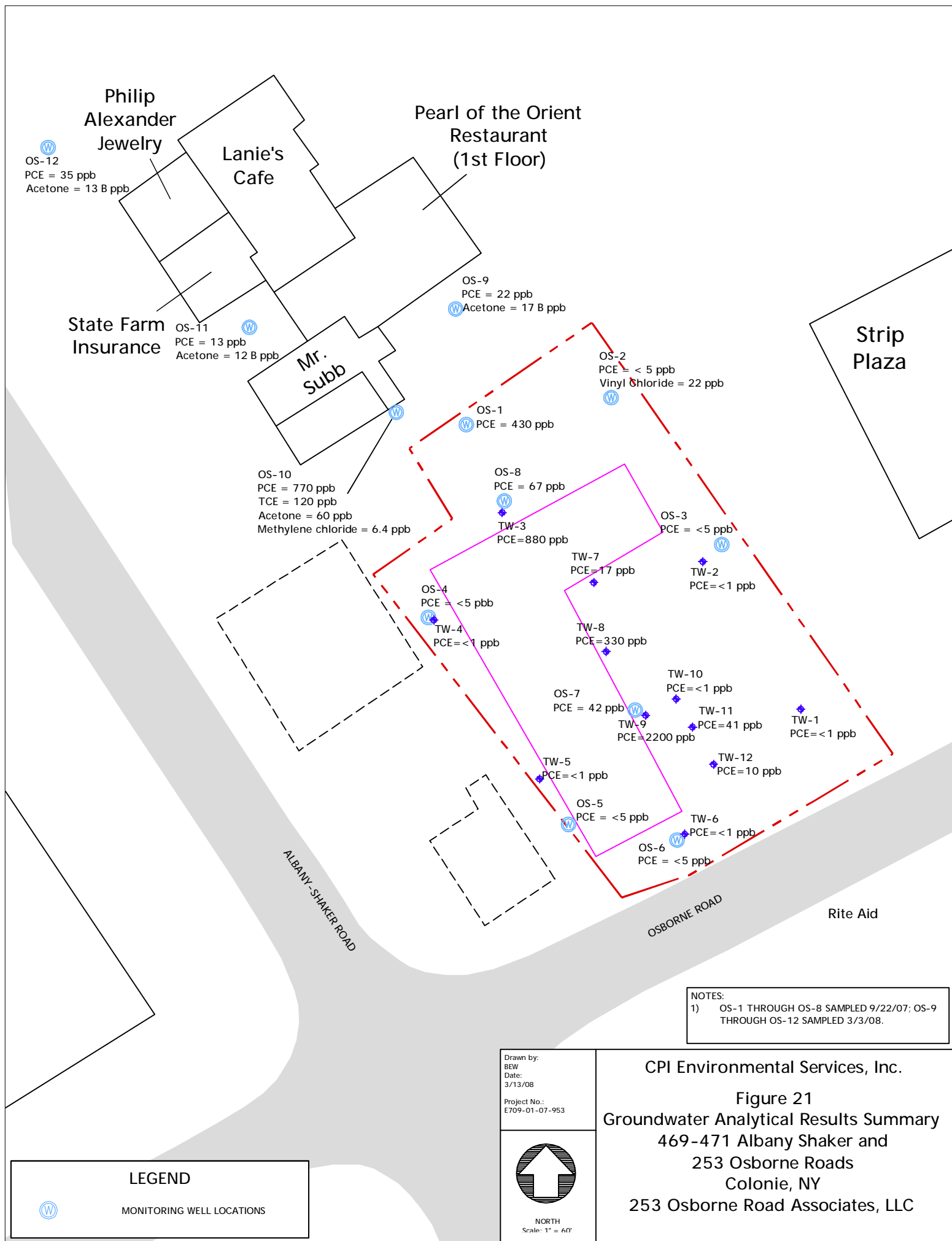


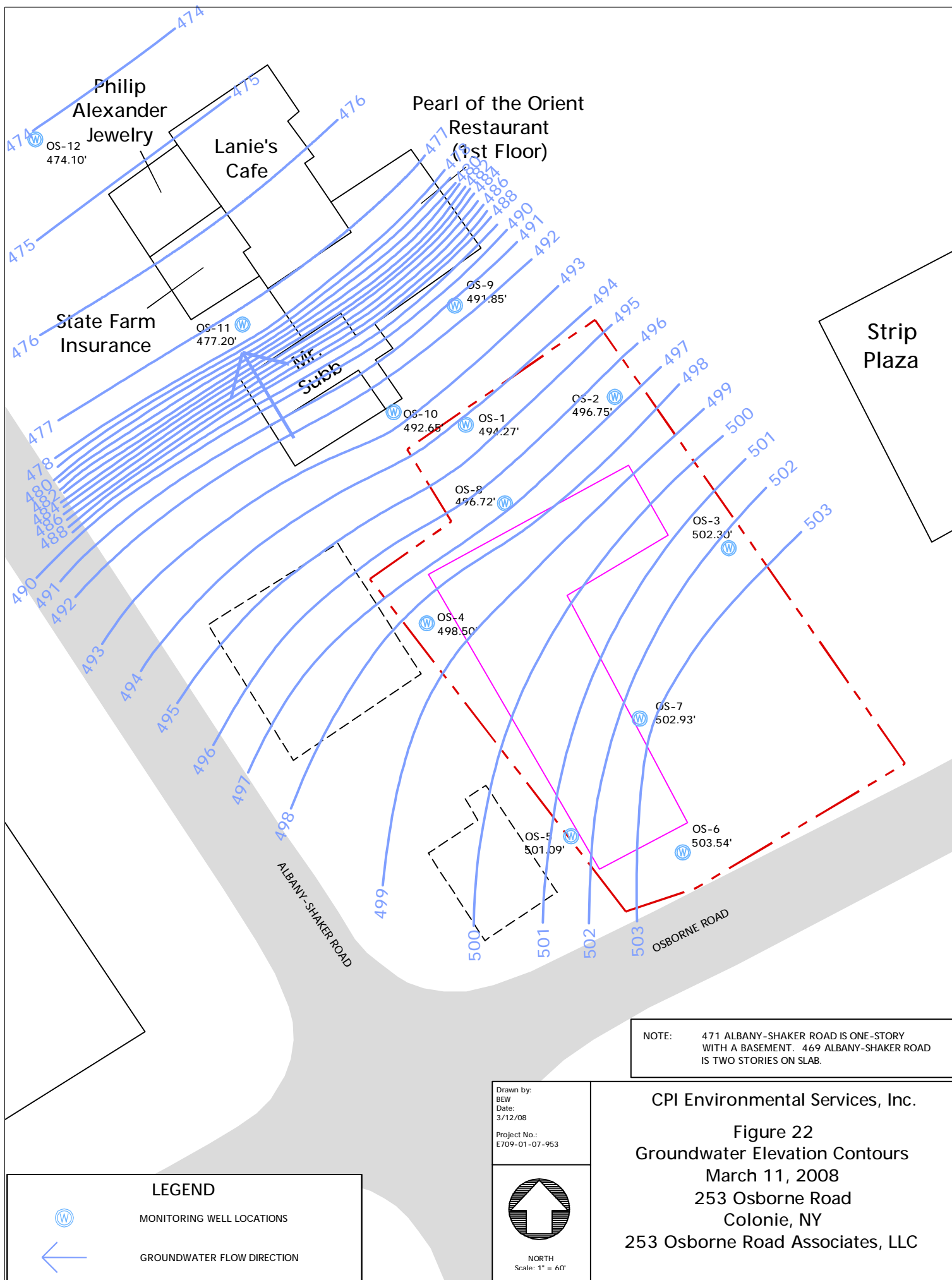
NORTH  
Scale: 1" = 60'

Drawn by:  
BEW  
Date:  
3/11/08  
Project No.:  
E709-01-07-953

CPI Environmental Services, Inc.

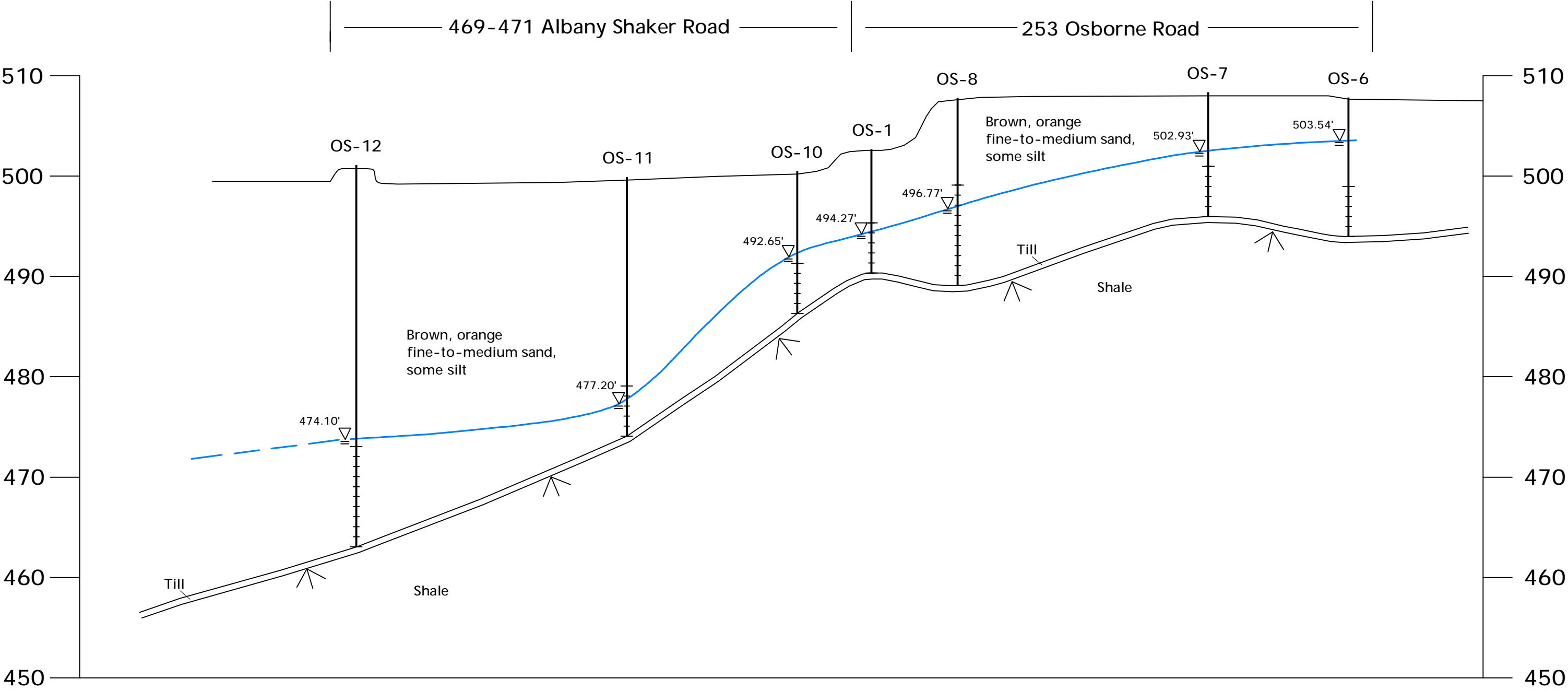
Figure 20  
Bedrock Elevation Contours  
253 Osborne Road  
Colonie, NY  
253 Osbourne Road Associates, LLC





A'  
NORTHWEST

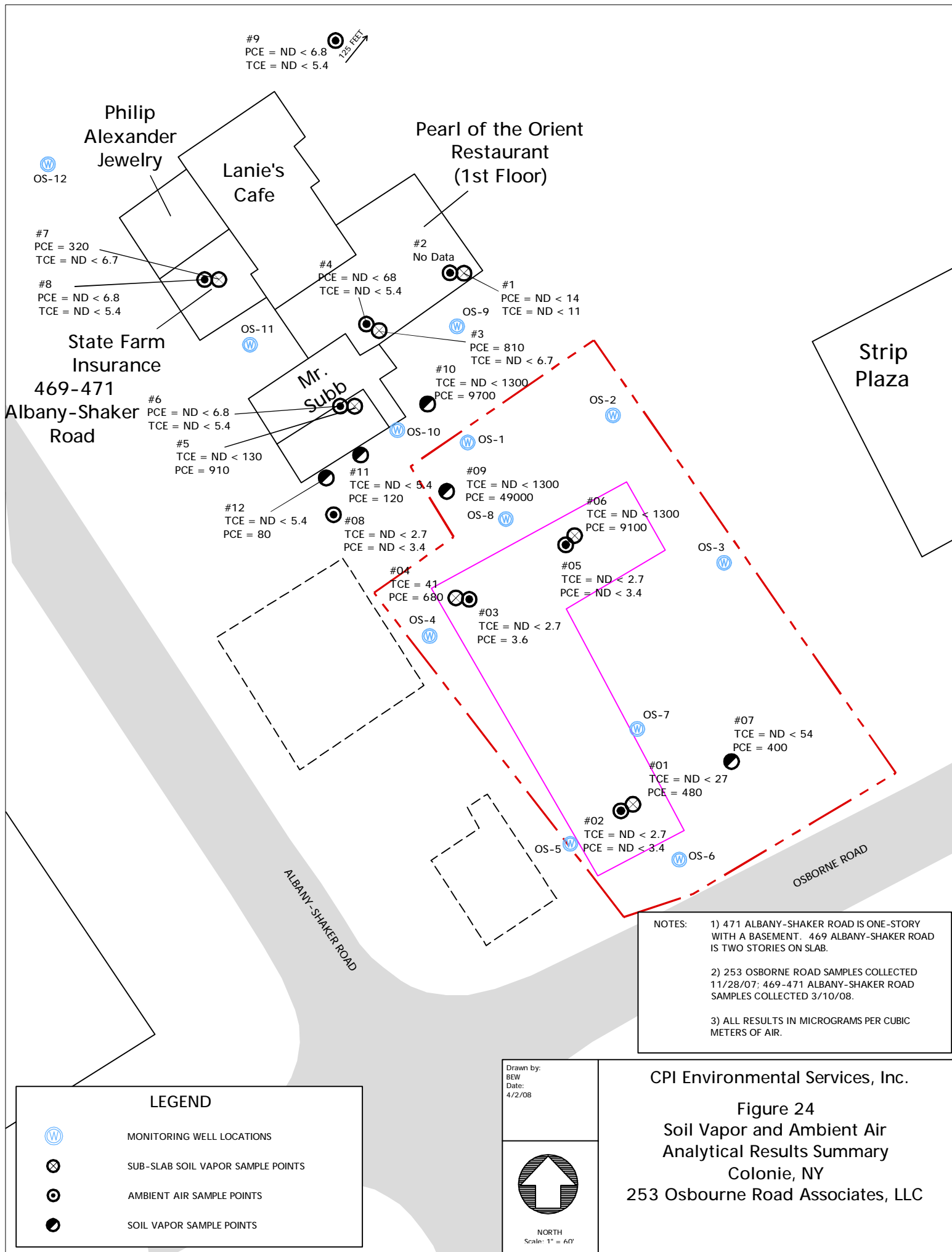
A  
SOUTHEAST



NOTE: GROUNDWATER ELEVATIONS MEASURED ON MARCH 11, 2008



Drawn by:  
BEW  
Date:  
3/11/08  
Project No.:  
E709-01-07-953  
HORIZONTAL SCALE  
1" = 50'  
VERTICAL SCALE  
1" = 10'

CPI Environmental Services, Inc.  
Figure 23  
Cross Section Across 253 Osborne Road  
and 469-471 Albany Shaker Roads  
Colonie, NY  
253 Osbourne Road Associates, LLC





# LEGEND

-  PDG-1 POST-DEMOLITION GEOPROBE LOCATION
-  TP-PD1 POST-DEMOLITION TEST PIT LOCATION

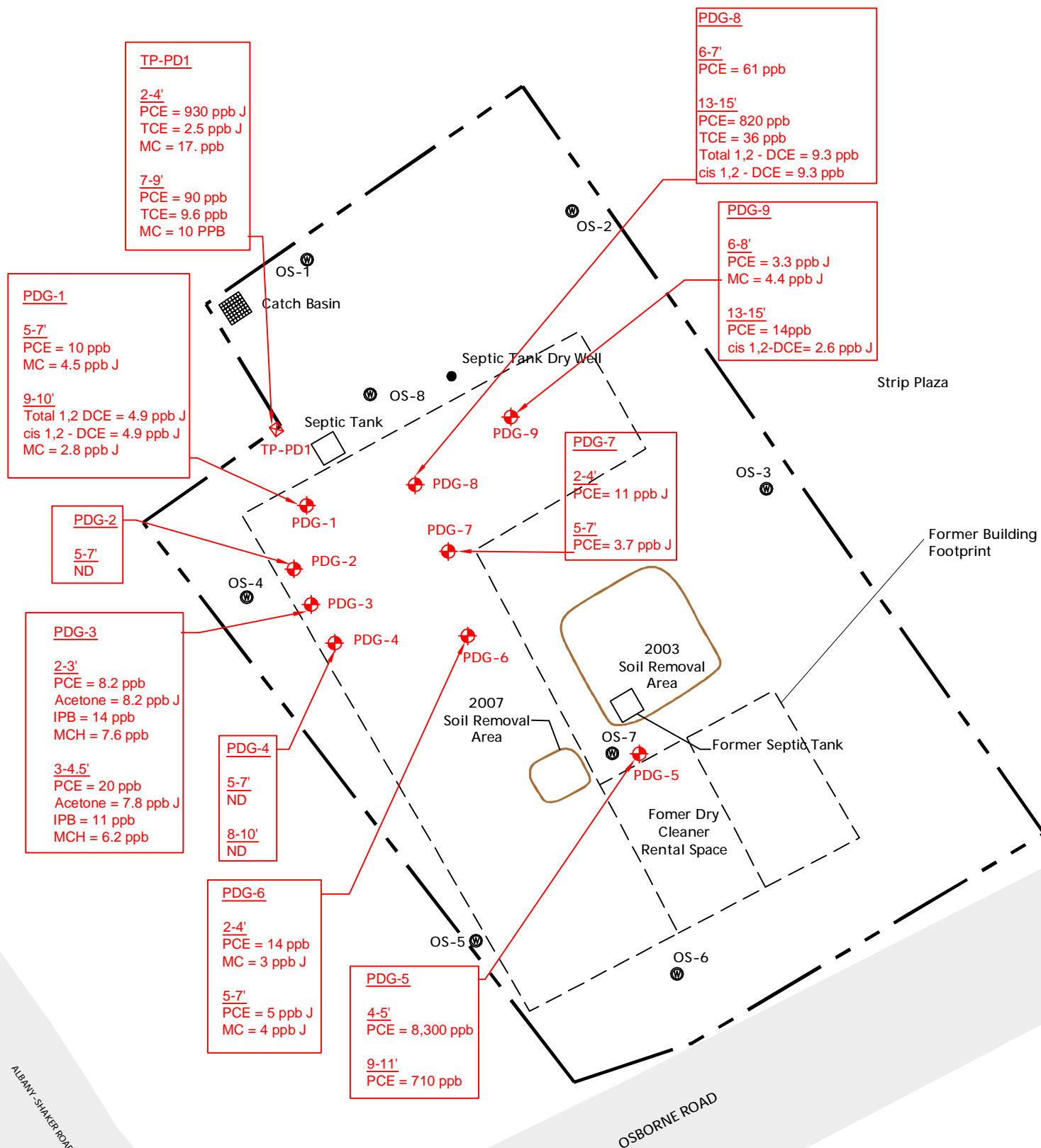
Drawn by:  
 BEW/CAP  
 Date:  
 9/20/10



NORTH  
 Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 25  
 Post-Demolition Boring Locations  
 253 Osborne Road  
 Colonie, NY  
 253 Osborne Road Associates, LLC



#### LEGEND

- POST-DEMOLITION GEOPROBE LOCATION
- POST-DEMOLITION TEST PIT LOCATION
- PCE
- Total 1,2 - DCE
- cis 1,2 - DCE
- MC
- TCE
- IPB
- MCH
- ND

POST-DEMOLITION GEOPROBE LOCATION  
 POST-DEMOLITION TEST PIT LOCATION  
 TETRACHLOROETHENE  
 TOTAL 1,2 - DICHLOROETHENE  
 cis- 1,2 - DICHLOROETHENE  
 METHYLENE CHLORIDE  
 TRICHLOROETHENE  
 ISOPROPYLBENZENE  
 METHYLCYCLOHEXANE  
 NOTHING DETECTED

Drawn by:  
 CAP  
 Date:  
 9/29/10

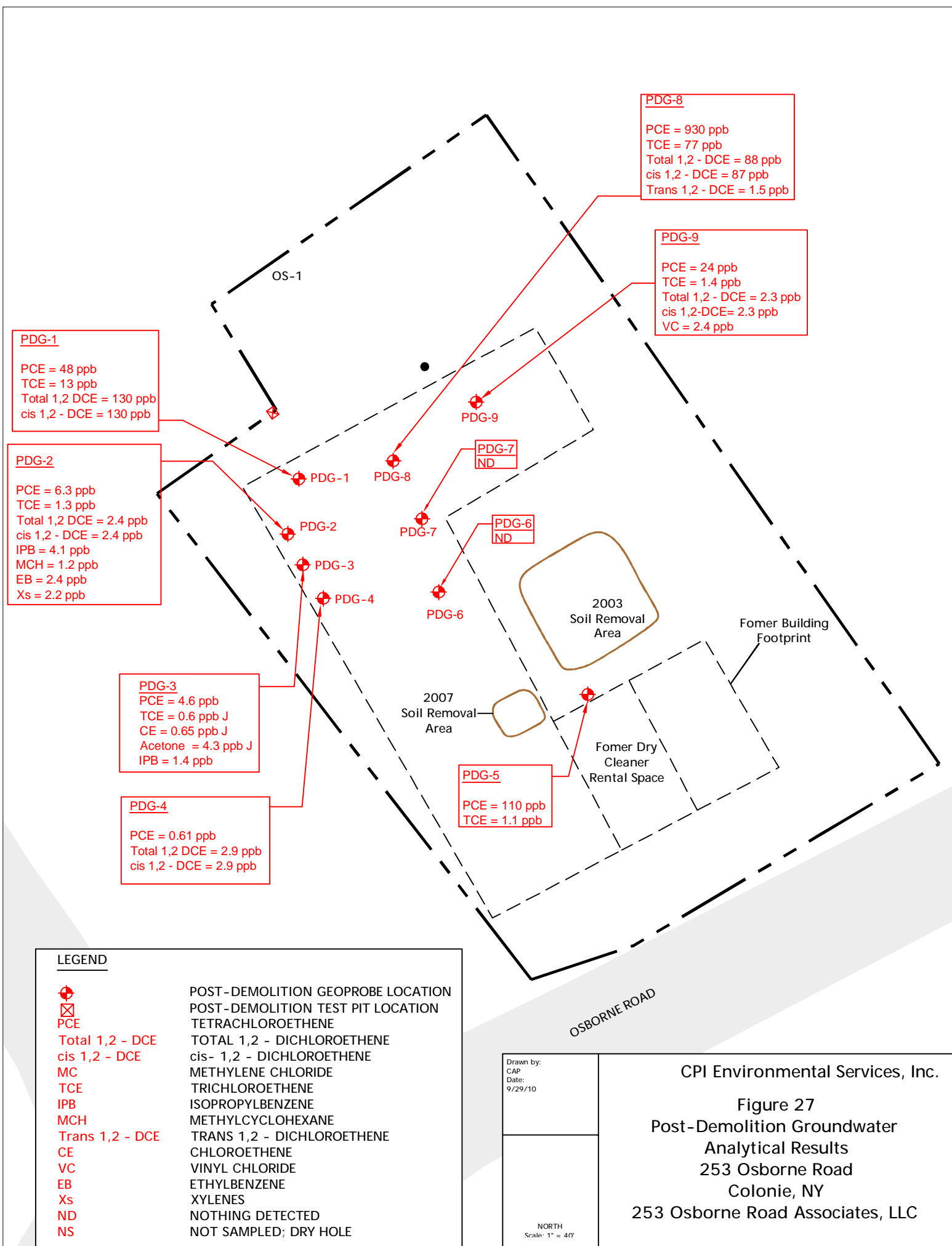


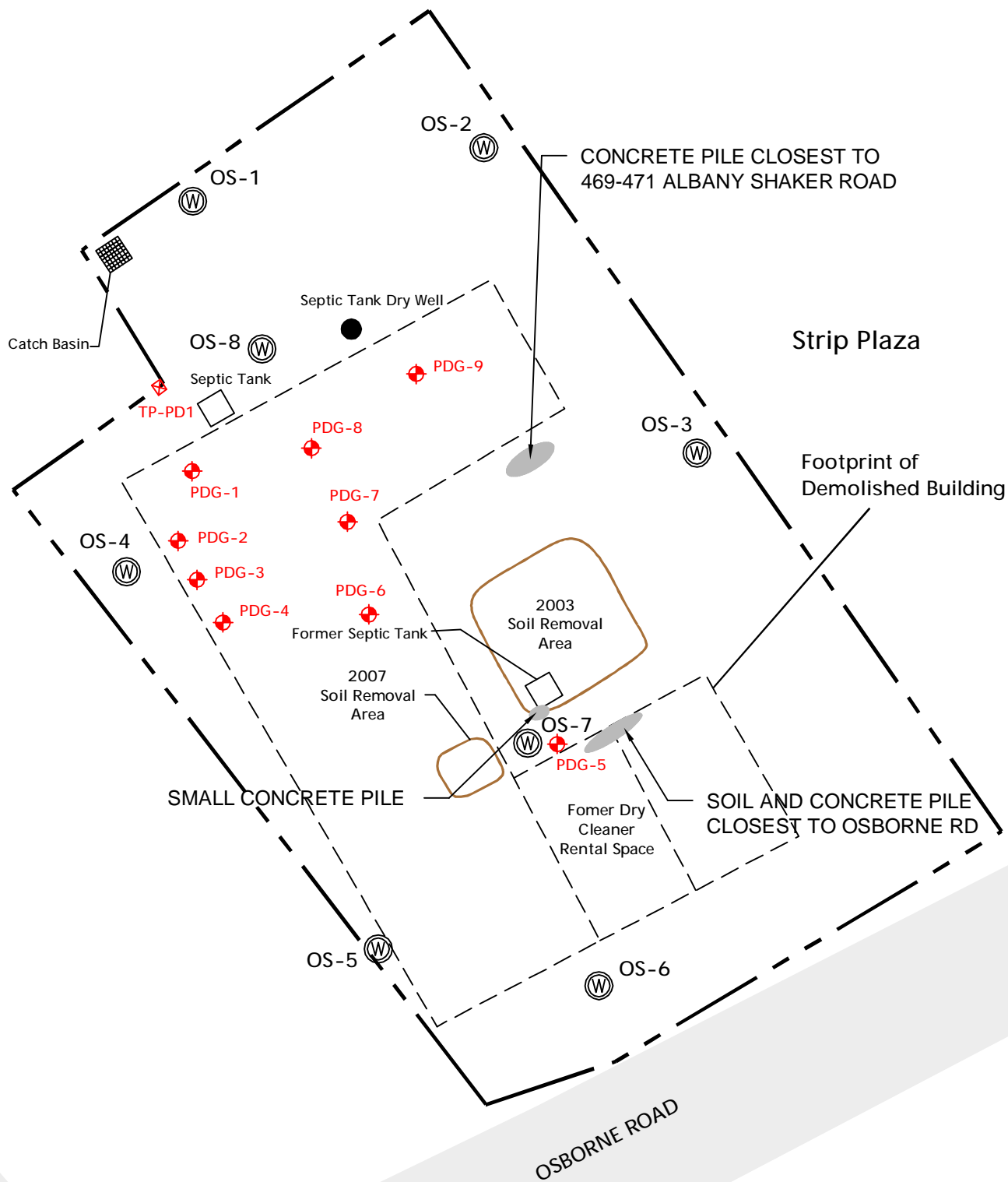
NORTH  
 Scale: 1" = 40'

CPI Environmental Services, Inc.



Figure 26  
 Post-Demolition Soil Analytical Results  
 253 Osborne Road  
 Colonie, NY  
 253 Osborne Road Associates, LLC



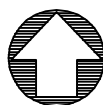




#### LEGEND

-  PDG-1 POST-DEMOLITION GEOPROBE LOCATION
-  TP-PD1 POST-DEMOLITION TEST PIT LOCATION

Drawn by:  
BEW/CAP  
Date:  
9/20/10



NORTH  
Scale: 1" = 40'

CPI Environmental Services, Inc.

Figure 28  
Location of Staged Concrete  
and Soil Material  
253 Osborne Road  
Colonie, NY  
253 Osborne Road Associates, LLC

## **Appendix 1**

### **B-1/MW-1 Geologic Log**


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 26 Computer Drive West, Albany, New York 12205						<b>BORING NO.: B-1</b>	
PROJECT: 253 Osborne Road						Sheet <u>1</u> of <u>1</u>	
CLIENT: Tony Cardonna						Job No.: E475-01-03-623	
DRILLING CONTRACTOR: SJB Services, Inc.						Meas.	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Hollow Stem Auger					Sample	Core	Casing
DRILL RIG TYPE:				Type			
GROUNDWATER DEPTH: 4.90 feet				Diameter			
MEASURING POINT: Top of PVC Casing				Weight			
DATE OF MEASUREMENT: April 9, 2003				Fall			
						Datum: Asphalt	
						Start Date: 04/08/03	
						End Date: 04/08/03	
						Driller: Tom Farrell	
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
	S-1	3			br, fine sand, some silt, some fine to medium gravel (crushed black top)	Rec = 0.4 feet
		3		0		moist
		3				
2		0.5/2				
	S-2	2			br, fine sand, some silt	Rec = 0.4 feet
		2		0		wet
		1				
4		1				
	S-3	3			same	Rec = 1.8 feet
		2		0		wet
		3				
6		5				
	S-4	3			br, fine sand, some silt, some medium to coarse gravel	Rec = 1.8 feet
		3		0		wet
		4				
8		5				
	S-5	6			br, fine sand, some silt	Rec = 2.0 feet
		5		0		wet
		5				
10		6				
	S-6	14			br, fine sand and clay, some medium to coarse gray gravel (shale fragments)	
		11		0		Rec = 1.8 feet
		12				wet
12		10				

TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC 26 Computer Drive West, Albany, New York 12205 (518) 458-9203						BORING NO.: B-1
PROJECT: 253 Osborne Road						Sheet <u>2</u> of <u>2</u>
CLIENT: Tony Cardonna						Job No.: E475-01-03-623
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12						
	S-7			0	gray, fine to medium gravel and fine to medium sand, some silt	Rec = 0.3 feet
					auger down to 12.5 feet -	wet shale
14					end of boring at 12.5 feet	
					Construct 2-inch PVC monitoring well	
					Screen 2.5 to 12.5 feet	
16					2 bags of filter sand	
					Flush-mount curb box	
18						
20						
22						
24						
26						
28						
30						

## **Appendix 2**

### **July 2003 PCE Delineation Boring Logs and Analytical Result Summary**

**Table 1**  
**Soil Analytical Results - VOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)							
		B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8021									
Dichlorodifluoromethane		<200	<200	<6	<200	<2	<2	<3	<3
Chloromethane		<200	<200	<6	<200	<2	<2	<3	<3
Vinyl Chloride	200	<200	<200	<6	<200	<2	<2	<3	<3
Bromomethane		<200	<200	<6	<200	<2	<2	<3	<3
Chloroethane	1,900	<200	<200	<6	<200	<2	<2	<3	<3
Trichlorofluoromethane		<200	<200	<6	<200	<2	<2	<3	<3
1,1-Dichloroethene	400	<200	<200	<6	<200	<2	<2	<3	<3
Methylene Chloride	100	<200	<200	7	<200	<2	<2	<3	<3
trans-1,2-Dichloroethene	300	<200	<200	<6	<200	<2	<2	<3	<3
1,1-Dichloroethane	200	<200	<200	<6	<200	<2	<2	<3	<3
cis-1,2-Dichloroethene		<200	<200	<6	<200	<2	<2	<3	<3
Chloroform	300	<200	<200	<6	<200	<2	<2	<3	<3
2,2-Dichloropropane		<200	<200	<6	<200	<2	<2	<3	<3
1,2-Dichloroethane	100	<200	<200	<6	<200	<2	<2	<3	<3
1,1,1-Trichloroethane	800	<200	<200	<6	<200	<2	<2	<3	<3
1,1-Dichloropropene		<200	<200	<6	<200	<2	<2	<3	<3
Carbon Tetrachloride	600	<200	<200	<6	<200	<2	<2	<3	<3
Dibromomethane		<200	<200	<6	<200	<2	<2	<3	<3
1,2-Dichloropropane		<200	<200	<6	<200	<2	<2	<3	<3
Trichloroethene	700	<200	<200	<6	<200	<2	<2	<3	<3
Bromodichloromethane		<200	<200	<6	<200	<2	<2	<3	<3
cis-1,3-Dichloropropene		<200	<200	<6	<200	<2	<2	<3	<3
trans-1,3-Dichloropropene		<200	<200	<6	<200	<2	<2	<3	<3
1,1,2-Trichloroethane		<200	<200	<6	<200	<2	<2	<3	<3

**Table 1**  
**Soil Analytical Results - VOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)							
		B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8021									
1,3-Dichloropropane		<200	<200	<6	<200	<2	<2	<3	<3
Dibromochloromethane		<200	<200	<6	<200	<2	<2	<3	<3
1,2-Dibromoethane		<200	<200	<6	<200	<2	<2	<3	<3
Tetrachloroethene	1,400	1300	460	11	1700	<2	<2	10	15
1,1,1,2-Tetrachloroethane		<200	<200	<6	<200	<2	<2	<3	<3
Bromoform		<200	<200	<6	<200	<2	<2	<3	<3
1,1,2,2-Tetrachloroethane	600	<200	<200	<6	<200	<2	<2	<3	<3
1,2,3-Tetrachloropropane		<200	<200	<6	<200	<2	<2	<3	<3
1,2-Dibromo-3-chloropropane		<200	<200	<6	<200	<2	<2	<3	<3
Benzene	60 or MDL	<99	<96	<3	<100	<0.7	<0.7	<2	<2
Toluene	1,500	<200	<200	<6	<200	<2	<2	<3	<3
Chlorobenzene		<200	<200	<6	<200	<2	<2	<3	<3
Ethylbenzene	5,500	<200	<200	<6	<200	<2	<2	<3	<3
m,p-Xylene	1,200	<400	<390	<12	<400	<3	<3	<6	<5
Styrene		<200	<200	<6	<200	<2	<2	<3	<3
o-Xylene	1,200	<200	<200	<6	<200	<2	<2	<3	<3
Isopropylbenzene	2,300	<200	<200	<6	<200	<2	<2	<3	<3
Bromobenzene		<200	<200	<6	<200	<2	<2	<3	<3
n-Propylbenzene	3,700	<200	<200	<6	<200	<2	<2	<3	<3
2-Chlorotoluene		<200	<200	<6	<200	<2	<2	<3	<3
4-Chlorotoluene		<200	<200	<6	<200	<2	<2	<3	<3
1,3,5-Trimethylbenzene	3,300	<200	<200	<6	<200	<2	<2	<3	<3
tert-Butylbenzene	10,000	<200	<200	<6	<200	<2	<2	<3	<3
1,2,4-Trimethylbenzene	10,000	<200	<200	<6	<200	<2	<2	<3	<3



**Table 1**  
**Soil Analytical Results - VOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)							
		B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8021									
sec-Butylbenzene	10,000	<200	<200	<6	<200	<2	<2	<3	<3
1,3-Dichlorobenzene	1,600	<200	<200	<6	<200	<2	<2	<3	<3
1,4-Dichlorobenzene	8,500	<200	<200	<6	<200	<2	<2	<3	<3
4-isopropyltoluene		<200	<200	<6	<200	<2	<2	<3	<3
1,2-Dichlorobenzene	7,900	<200	<200	<6	<200	<2	<2	<3	<3
n-Butylbenzene	10,000	<200	<200	<6	<200	<2	<2	<3	<3
1,2,4-Trichlorobenzene	3,400	<200	<200	<6	<200	<2	<2	<3	<3
Naphthalene	13,000	<200	<200	<6	<200	<2	<2	<3	<3
Hexachlorobutadiene		<200	<200	<6	<200	<2	<2	<3	<3
1,2,3-Trichlorobenzene		<200	<200	<6	<200	<2	<2	<3	<3

1. MDL = Minimum Detection Limit

2. ppb = Parts per Billion, which is equivalent to micrograms per kilogram (ug/kg)

3. NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives

Compounds without TAGM values are subject to the general less than 10,000 ppb cleanup criteria

4. N/A = Not available

5. Methylene chloride detection is probably laboratory cross-contamination

**Table 2**  
**Soil Analytical Results - VOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)	
		B-1	B-2
Target Compound List (TCL) Volatile Organic Compounds (VOCs) by EPA Method 8260			
Chloromethane		<4	<4
Bromomethane		<4	<4
Vinyl Chloride	200	<2	<2
Chloroethane	1,900	<4	<4
Methylene Chloride	100	26	29
Acetone	200	23	20
Carbon Disulfide	2,700	<4	<4
1,1-Dichloroethene	400	<4	<4
1,1-Dichloroethane	200	<4	<4
trans-1,2-Dichloroethene	300	<4	<4
cis-1,2-Dichloroethene		<4	4
Chloroform	300	<4	<4
1,2-Dichloroethane	100	<4	<4
2-Butanone	300	<12	<12
1,1,1-Trichloroethane	800	<4	<4
Carbon Tetrachloride	600	<4	<4
Bromodichloromethane		<4	<4
1,2-Dichloropropane		<4	<4
cis-1,3-Dichloropropane	300	<4	<4
Trichloroethene	700	<4	<4
Dibromochloromethane	N/A	<4	<4
1,1,2-Trichloroethane		<4	<4
Benzene	60 or MDL	<4	<4
trans-1,3-Dichloropropene		<4	<4
Bromoform		<4	<4
4-Methyl-2-Pentanone	1,000	<12	<12
2-Hexanone		<12	<12
Tetrachloroethene	1,400	16	110
1,1,2,2-Tetrachloroethane		<4	<4
Toluene	1,500	<4	<4
Chlorobenzene	1,700	<4	<4
Ethylbenzene	5,500	<4	<4
Styrene		<4	<4
m,p-Xylene	1,200	<4	<4
o-Xylene	1,200	<4	<4

1. MDL = Minimum Detection Limit

2. ppb = Parts per Billion, which is equivalent to micrograms per kilogram (ug/kg)

3. NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended Soil Cleanup Objectives  
Compounds without TAGM values are subject to the general less than 10,000 ppb cleanup criteria

4. N/A = Not available

5. Methylene chloride and acetone detections believed to be laboratory cross-contamination

**Table 3**  
**Soil Analytical Results - SVOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)	
		B-1	B-2
Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270			
Phenol	30 or MDL	<390	<410
bis(2-Chloroethyl)ether		<390	<410
2-Chlorophenol	800	<390	<410
1,3-Dichlorobenzene		<390	<410
1,4-Dichlorobenzene		<390	<410
1,2-Dichlorobenzene		<390	<410
2-Methylphenol	100 or MDL	<390	<410
n-Nitrosodipropylamine		<390	<410
Hexachloroethane		<390	<410
Nitrobenzene	200 or MDL	<390	<410
Isophorone	4,400	<390	<410
2-Nitrophenol	330 or MDL	<390	<410
2,4-Dimethylphenol		<390	<410
bis(2-Chloroethoxy)methane		<390	<410
2,4-Dichlorophenol	400	<390	<410
1,2,4-Trichlorobenzene		<390	<410
Naphthalene	13,000	<390	<410
4-Chloroaniline	220 or MDL	<390	<410
Hexachlorobutadiene		<390	<410
4-Chloro-3-methylphenol	240 or MDL	<390	<410
Hexachlorocyclopentadiene		<390	<410
2,4,6-Trichlorophenol		<390	<410
2,4,5-Trichlorophenol	100	<390	<410
2-Chloronaphthalene		<390	<410
2-Nitroaniline	430 or MDL	<3900	<4100
Dimethylphthalate	2,000	<390	<410
Acenaphthylene	50,000	<390	<410
2,6-Dinitrotoluene	1,000	<390	<410
3-Nitroaniline	500 or MDL	<3900	<4100
Acenaphthene	50,000	<390	<410
2,4-Dinitrophenol	200 or MDL	<3900	<4100
4-Nitrophenol	100 or MDL	<3900	<4100
Dibenzofuran	6,200	<390	<410
2,4-Dinitrotoluene		<390	<410
Diethylphthalate	7,100	<390	<410
4-Chlorophenylphenylether		<390	<410

**Table 3**  
**Soil Analytical Results - SVOCs**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppb)	Boring Soil Samples (ppb)	
		B-1	B-2
Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270			
Fluorene	50,000	<390	<410
4-Nitroaniline		<3900	<4100
2-Methyl-4,6-dinitrophenol		<3900	<4100
n-Nitrosodiphenylamine		<390	<410
4-Bromophenylphenylether		<390	<410
Hexachlorobenzene		<390	<410
Pentachlorophenol	1,000 or MDL	<780	<810
Phenanthrene	50,000	<390	<410
Anthracene	50,000	<390	<410
Carbazole		<390	<410
Di-n-butylphthalate	8,100	<390	<410
Fluoranthrene	50,000	<390	<410
Pyrene	50,000	<390	<410
Butylbenzylphthalate	50,000	<390	<410
3,3'-Dichlorobenzidine	N/A	<390	<410
Benzo(a)anthracene	224 or MDL	<390	<410
Chrysene	400	<390	<410
bis(2-ethylhexyl)phthalate	50,000	<390	<410
Di-n-octylphthalate	50,000	<390	<410
Benzo(b)fluoranthene	220 or MDL	<390	<410
Benzo(k)fluoranthene	220 or MDL	<390	<410
Benzo(a)pyrene	61 or MDL	<390	<410
Indeno(1,2,3-cd)pyrene	3,200	<390	<410
Dibenzo(a,h)anthracene	14.3 or MDL	<390	<410
Benzo(ghi)perylene	50,000	<390	<410

1. MDL = Minimum Detection Limit

2. ppb = Parts per Billion, which is equivalent to micrograms per kilogram (ug/kg)

3. NYSDEC Recommended Soil Cleanup Objectives from NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046  
Compounds without TAGM values are subject to the general less than 50,000 ppb cleanup criteria

4. N/A = Not available

**Table 4**  
**Soil Analytical Results - Metals and Petroleum Indicators**  
**Soil Quality Delineation - 253 Osborne Road**  
**Edoral Realty Rentals**  
**Colonie, New York**

Compound	NYSDEC Soil Cleanup Objective (ppm)	Boring Soil Samples (ppm)		
		B-1	B-2	
RCRA 8 Metals				
Arsenic	7.5 or SB	3.1	3.1	
Barium	300 or SB	90	<36	
Cadmium	1 or SB	1.9	1.5	
Chromium	10 or SB	14	11	
Lead	SB	<12	16	
Mercury	0.1	<0.23	<0.24	
Selenium	2 or SB	<0.59	<0.61	
Silver	SB	<5.9	10	
Percent Solids	N/A	85%	82%	
Petroleum Indicators EPA Method 8015				
Gasoline Range	N/A	<39	<40	
Kerosene Range	N/A	<3.9	<4.0	
Fuel Oil #2 Diesel Range	N/A	<3.9	<4.0	
Lubricating/Insulating/Hydraulic	N/A	<39	<400	
Unidentified Hydrocarbons	N/A	ND	ND	
Total Petroleum Hydrocarbons	N/A	ND	ND	


1. SB = Site Background

2. ppm = Parts per Million, which is equivalent to milligrams per kilogram (mg/kg)


3. NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Recommended  
Soil Cleanup Objectives

4. N/A = Not available

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-1	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				Br FVF SAND, little Silt, trace fm gravel		Rec = 2.0 feet Moist
4	S-1					
				Br F SAND, some Silt		Rec = 4.0 feet Wet
	S-2					
8				Br MF SAND, little F Gravel and Silt		Rec = 4.0 feet Wet
	S-3					
12				Gry TILL, Shale Fragments		EOB = 11.8 feet
16						
20						
24						

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-2	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				Br FVF SAND, little Silt, trace fm gravel		Rec = 1.5 feet
	S-1					Moist
4				Br F SAND, Some Silt		Rec = 4.0 feet
	S-2					Wet
8				Br F SAND, some silt, trace clay		Rec = 3.6 feet
	S-3					Wet
12				Gry TILL, Shale Fragments		EOB = 11.8 feet
16						
20						
24						

# GEOPROBE BORING LOG

<b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					<b>BORING NO.:</b> B-3	
<b>PROJECT:</b> 253 Osborne Road Remediation					Sheet 1 of 1	
<b>CLIENT:</b> Edoral Realty Rentals					Job No.: E508-01-03-671	
<b>DRILLING CONTRACTOR:</b> SMT					Meas.	
<b>PURPOSE:</b> Delineation Soil Quality					Ground Elev.:	
<b>DRILLING METHOD:</b> Direct Push		Type	Sample	Core	Casing	Datum: Asphalt
<b>DRILL RIG TYPE:</b> Truck Mounted Earth Probe		Diameter	Weight	Fall	Start Date: 7/30/03	
<b>GROUNDWATER DEPTH:</b> 4.90 Feet		End Date: 7/30/03				
<b>MEASURING POINT:</b> TOC		Driller: ELH				
<b>DATE OF MEASUREMENT:</b> April 9, 2003		Inspector: PTD				

Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				Br F SAND, some Silt, trace f gravel	Rec = 2.0 feet
	S-1				Moist
4				Br F SAND, some silt	Rec = 4.0 feet
	S-2				Wet
8				Br F SAND and Silt, trace clay	Rec = 4.0 feet
	S-3				Wet
12				Gry TILL and Shale Fragments	EOB = 12.0 feet
16					
20					
24					




# GEOPROBE BORING LOG

<b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-4	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD

Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				Br FVF SAND, little Silt, trace fm gravel	Rec = 2.0 feet
	S-1				Moist
4				Br F SAND, some Silt	Rec = 4.0 feet
	S-2				Wet
8				Br MF SAND and Silt, trace clay	Rec = 3.5 feet
	S-3				Wet
12				Gry TILL	EOB = 11.6 feet
16					
20					
24					

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203										BORING NO.: B-5	
PROJECT: 253 Osborne Road Remediation										Sheet 1 of 1	
CLIENT: Edoral Realty Rentals										Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT										Meas.	
PURPOSE: Delineation Soil Quality										Ground Elev.:	
DRILLING METHOD: Direct Push					Sample	Core	Casing	Datum: Asphalt			
DRILL RIG TYPE: Truck Mounted Earth Probe				Type				Start Date: 7/30/03			
GROUNDWATER DEPTH: 4.90 Feet				Diameter				End Date: 7/30/03			
MEASURING POINT: TOC				Weight				Driller: ELH			
DATE OF MEASUREMENT: April 9, 2003				Fall				Inspector: PTD			
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description				Remarks			
0											
	S-1			Br FVF SAND, some Silt, trace fm gravel				Rec = 1.5 feet			
								Moist			
4											
	S-2			Br, MF SAND, trace silt				Rec = 4.0 feet			
								Wet			
8											
	S-3			Br MF SAND, little silt and clay				Rec = 3.0 feet			
								Wet			
12				Gry Till				EOB = 11.6 feet			
16											
20											
24											

Rvd. 8/1/00


# GEOPROBE BORING LOG

<b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-6	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD


Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description	Remarks
0					
	S-1			Br F SAND, some Silt, trace fm gravel	Rec = 2.5 feet
					Moist
4					
	S-2			Br F SAND, little Silt, trace f gravel	Rec = 3.5 feet
					Wet
8					
	S-3			Br MF SAND, trace silt and clay	Rec = 3.0 feet
					Wet
12				Gry TILL	EOB = 11.8 feet
16					
20					
24					

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					<b>BORING NO.:</b> B-7	
<b>PROJECT:</b> 253 Osborne Road Remediation					Sheet 1 of 1	
<b>CLIENT:</b> Edoral Realty Rentals					<b>Job No.:</b> E508-01-03-671	
<b>DRILLING CONTRACTOR:</b> SMT					Meas.	
<b>PURPOSE:</b> Delineation Soil Quality					Ground Elev.:	
<b>DRILLING METHOD:</b> Direct Push			Sample	Core	Casing	Datum: Asphalt
<b>DRILL RIG TYPE:</b> Truck Mounted Earth Probe		Type				Start Date: 7/30/03
<b>GROUNDWATER DEPTH:</b> 4.90 Feet		Diameter				End Date: 7/30/03
<b>MEASURING POINT:</b> TOC		Weight				Driller: ELH
<b>DATE OF MEASUREMENT:</b> April 9, 2003		Fall				Inspector: PTD
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				Br FVF SAND and Silt, trace fm gravel		Rec = 2.4 feet Moist
4	S-1					
				Br F SAND		Rec = 3.8 feet Wet
8	S-2					
				Br F SAND and Silt, little clay		Rec = 3.2 feet Wet
12	S-3					
				Gry TILL, Shale Fragments		
16						
20						
24						


Rvd. 8/1/00

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-8	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				Br F SAND, some Silt, trace fm gravel		Rec = 1.6 feet
	S-1					Moist
4				Br F SAND and Silt		Rec = 4.0 feet
	S-2					Wet
8				Br MF SAND, little silt and clay		Rec = 3.5 feet
	S-3					Wet
12				Gry TILL		EOB = 11.6 feet
16						
20						
24						

Rvd. 8/1/00

# GEOPROBE BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203					BORING NO.: B-9	
PROJECT: 253 Osborne Road Remediation					Sheet 1 of 1	
CLIENT: Edoral Realty Rentals					Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT					Meas.	
PURPOSE: Delineation Soil Quality					Ground Elev.:	
DRILLING METHOD: Direct Push			Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe		Type				Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet		Diameter				End Date: 7/30/03
MEASURING POINT: TOC		Weight				Driller: ELH
DATE OF MEASUREMENT: April 9, 2003		Fall				Inspector: PTD
Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				Br FVF SAND, little silt, trace fm gravel		Rec = 2.0 feet
	S-1					Moist
4				Br F SAND, some Silt		Rec = 4.0 feet
	S-2					
8				Br MFS SAND, little silt and clay		Rec = 3.2 feet
	S-3					Wet
12				Gry TILL		EOB = 11.8 feet
16						
20						
24						

# GEOPROBE BORING LOG

<b>CONTINENTAL PLACER INC.</b> 26 Computer Drive West, Albany, New York 12205 (518) 458-9203						BORING NO.: B-10	
PROJECT: 253 Osborne Road Remediation						Sheet 1 of 1	
CLIENT: Edoral Realty Rentals						Job No.: E508-01-03-671	
DRILLING CONTRACTOR: SMT						Meas.	
PURPOSE: Delineation Soil Quality						Ground Elev.:	
DRILLING METHOD: Direct Push				Sample	Core	Casing	Datum: Asphalt
DRILL RIG TYPE: Truck Mounted Earth Probe				Type			Start Date: 7/30/03
GROUNDWATER DEPTH: 4.90 Feet				Diameter			End Date: 7/30/03
MEASURING POINT: TOC				Weight			Driller: ELH
DATE OF MEASUREMENT: April 9, 2003				Fall			Inspector: PTD

Depth	Sample No.	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				Br F SAND and Silt, trace fm gravel	Rec = 2.5 feet
	S-1				Moist
4				Br MF SAND, some Silt	Rec = 4.0 feet
	S-2				Wet
8				Br MF SAND, little silt and clay	Rec = 3.5 feet
	S-3				Wet
12				Gry TILL	EOB = 11.5 feet
16					
20					
24					

### **Appendix 3**

#### **October 2003 Soil Removal Manifests, Post-Confirmation Soil Analytical Result Summary, and DEC Spill Closure Letter**



**New York State Department of Environmental Conservation**  
**Office of Environmental Quality, Region 4**  
1150 North Westcott Road, Schenectady, New York 12306-2014  
**Phone:** (518) 357-2045 • **FAX:** (518) 357-2398  
**Website:** www.dec.state.ny.us



November 14, 2003

Mr. William J. Miller, III  
CPI Environmental Services, Inc.  
26 Computer Drive West  
Albany, New York 12205

**Re: Spill # 03-05984**  
**Osborne Plaza**  
**253 Osborne Road, Loudonville**

Dear Mr. Miller:

This letter is to inform you that the above referenced spill number has been closed. The analytical data included in the closure report meets soil guidelines under TAGMs 4046. No further action is required.

If you have any questions, please call me at 518-357-2387.

Sincerely,



William T. Christensen  
Regional Spill Investigator  
Region IV

WC:lg\EQ files 2\Christensen\Closure Letter Spill 03-05984-253 Osborne Road.wpd.

**RECEIVED**

**NOV 18 2003**

**Table 1**  
**Confirmatory Post-Excavation and Soil Boring**  
**Analytical Results**

General Sample Location	Sample ID	PCE Result
Post-Excavation Samples	S-1	11 ug/kg
	S-2	31 ug/kg
	S-3	15 ug/kg
Boring Samples Within Excavation Area	B-1	116 ug/kg
	B-2	110 ug/kg
	B-3	1,300 ug/kg
	B-4	460 ug/kg
	B-6	1,700 ug/kg
Boring Samples Outside Excavation Area	B-5	11 ug/kg
	B-7	ND
	B-8	ND
	B-9	10 ug/kg
	B-10	10 ug/kg

1) Boring soil samples collected July 30, 2003

2) Post-excavation soil samples collected October 8, 2003

**New York State Department of Environmental Conservation**  
**Division of Solid & Hazardous Materials**  
**Bureau of Hazardous Waste and Radiation Management**  
625 Broadway, Albany, NY 12233-7258  
**Phone:**(518) 402-8594 • **FAX:**(518) 402-8646  
**Website:** [www.dec.state.ny.us](http://www.dec.state.ny.us)



Erin M. Crotty  
Commissioner

September 29, 2003

Mr. William Miller, III  
Director of Environmental Services  
Continental Placer Inc.  
CPI Environmental Services, Inc.  
26 Computer Drive West  
Albany, NY 12205

Re: Soil Analytical Results for 253 Osborne Road, Loudonville, NY  
NYSDEC Spill #0305984

Dear Mr. Miller:

We have completed our review of the pre-excavation soil sampling data submitted with your September 11, 2003 request for a "contained-in" determination for soil contaminated by past dry cleaning operations at the referenced project site.

Concentration for tetrachloroethene (perc) were below the soil "contained-in" action level and the Land Disposal Restriction concentration. Therefore, soil excavated from the following sample locations do not have to be managed as hazardous waste when transported to ESMI's Fort Edward Facility for thermal treatment:

**Sample Location**

B-1  
B-2  
B-3  
B-4  
B-5

**Sample Location**

B-6  
B-7  
B-8  
B-9  
B-10

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-8594.

Sincerely,

Henry Wilkie  
Environmental Engineer 1  
Hazardous Waste Engineering Eastern Section

cc: D. Evans  
W. Christiansen, Region 4

**ATTACHMENT 1**

**Bill of Ladings**

From Customer: CPI10 To: CPI10  
 From Order: 6440 To: 6440  
 From Material: To: zzzzzzzzz

From: 10/7/2003 To: 10/8/2003

---Ticket---		Truck/Trl'r	Mat'l	----Material----		-----Revenue-----			
Date	Number	ID	ID	Unit	Net	Mat'l	Delivery	Tax/Misc.	Total
<hr/>									
Customer:	CPI10								
Order:	6440								
10/7/03	2004290	CH-56	SVU4		40.15 tn				
10/7/03	2004293	C-14	SVU4		41.49 tn				
10/7/03	2004295	CH-48	SVU4		37.00 tn				
10/8/03	2004312	CH-48	SVU4		38.66 tn				
10/8/03	2004313	CH-56	SVU4		38.42 tn				
10/8/03	2004316	CH-62	SVU4		38.38 tn				
04 USED CHLORINATED SOLVENTS Totals					234.100 tn				
<hr/>									
EDORAL REALTY Totals					234.100 tn				
253 OSBORNE RD									
LOUDONVILLE, NY									
<hr/>									
CPI ENVIRONMENTAL Totals					234.100 tn				
<hr/>									
Grand Totals					234.10 tn				

ESM1 OF NEW YORK  
304 Towpath Road  
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2004290  
Date : 10/07/03

Max. Acceptable Soil: 300.00

Customer: CPI10  
CPI ENVIRONMENTAL  
25 COMPUTER DRIVE WEST  
ALBANY, NY 12203

Job No : 6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 40.15

Trucker:  
CH-56 CEDAR HILL

Gross : 117640 Scale 1 In 9:19:17AM  
Tare : 37340 STORED Out

Net : 80300 lb  
40.150

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver: Rick Warlick Jr.

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$

Load 1

30517

SHIPPER NO. \_\_\_\_\_

CARRIER NO. 4A-314DATE: 10/7/03**STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable**

Cedar Hill Trucking

NAME OF CARRIER)

(SCAC)

O

CONSIGNEE

ESMI of New York  
304 Towpath Road  
Fort Edward NY 12828

STREET

ESTINATION

STATE

ZIP

FROM

SHIPPER

Edoral Realty Rentals  
263 Osborne Road  
Loudonville NY 12211

STREET

ORIGIN

STATE

ZIP

DATE:

**VIA BEST**

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

A265965

NO. SHIPPING UNIT	Q HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
/	DT	Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)	40.15 <sup>37T</sup> <i>K. Matthes</i>			

EMIT C.O.D. TO:

ADDRESS:

CITY:

STATE

ZIP

**COD** AMT: \$

C.O.D. Fee:

PREPAID ☐COLLECT ☐ \$

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note: - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL

CHARGES: \$

FREIGHT CHARGES

Freight Prepaid  
except when  
box at right  
is checked☐ Check box  
if charges  
to be  
collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

Edoral Realty Rentals

Cedar Hill Trucking

SHIPPER:

CARRIER:

BY: *X Chris Murphy* 10/7/03PER: *X Rich Wadsworth Jr*DATE: 10-7-03

EMERGENCY RESPONSE 888 888-7464

TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION  
INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation  
Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional

ESMI OF NEW YORK  
304 Towpath Road  
Port Edward, New York 12828

(518)747-5500

Ticket No : 2004293  
Date : 10/07/03

Max. Acceptable Soil: 300.00

Customer: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

Job No :6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 81.64

Trucker:  
C-14 CASON

Gross : 116000 Scale 1 In 10:18:22AM  
Tare : 33020 STORED Out

Net : 82980 1b  
41.490

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver:

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$



Load 2

30517

SHIPPER NO. \_\_\_\_\_

CARRIER NO. 4A-314

DATE: \_\_\_\_\_

**STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable**

Cedar Hill Trucking

NAME OF CARRIER)		(SCAC)	
CONSIGNEE ESMI of New York 304 Towpath Road Fort Edward NY 12828		FROM SHIPPER Edoral Realty Rentals 263 Osborne Road Loudonville NY 12211	
DESTINATION	STATE	ZIP	ORIGIN
STATE		STATE	
ZIP		ZIP	

DATE:	VIA BEST	U.S. DOT Hazmat Reg. No.	VEHICLE NUMBER
-------	----------	--------------------------	----------------

NO. SHIPPING UNIT	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
DT	Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)	34 41.49 <i>[Signature]</i>	T		

EMIT C.O.D. TO:	COD AMT: \$	C.O.D. Fee:
ADDRESS:		PREPAID <input type="checkbox"/>
CITY:	STATE ZIP	COLLECT <input type="checkbox"/> \$

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's right".	Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	TOTAL CHARGES: \$
note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.		FREIGHT CHARGES
we agreed or declared value of the property is hereby specifically stated by a shipper to be not exceeding _____ per _____	(Signature of Consignor)	Freight Prepaid except when box at right is checked <input type="checkbox"/> Check box if charges to be collect <input type="checkbox"/>

CEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: Edoral Realty Rentals	CARRIER: Cedar Hill Trucking / Cason
PER: <i>[Signature]</i> 10/07/03	PER: <i>[Signature]</i>
	DATE: 10/07/03

EMERGENCY RESPONSE 888 888-7464	MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)
TELEPHONE NUMBER: ( )	

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Concerning Transportation of Hazardous Materials. The use of this column is an optional.

ESMI OF NEW YORK  
304 Towpath Road  
Fort Edward, New York 12828

(518)747-5500 Ticket No : 2004295  
Date : 10/07/03

Max. Acceptable Soil: 300.00

Customer: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12203

Job No : 6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 118.64

Trucker:  
CH-48 CEDAR HILL

Gross : 109880 Scale 1 In 11:05:45AM  
Tare : 35880 STORED Out

Net : 74000 1b  
37.000

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver:

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$

Load 3

SHIPPER NO. 30517

CARRIER NO. 4A-314

DATE:

## STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

Cedar Hill Trucking

NAME OF CARRIER)

(SCAC)

TO

CONSIGNEE

FREIGHT

DESTINATION

STATE

ZIP

FROM

SHIPPER

STREET

ORIGIN

STATE

ZIP

MODE:

VIA BEST

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

NO. SHIPPING UNIT	DESCRIPTION	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
DT	Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)	35.00 <i>35.00</i> <i>for natter</i>	T		

EMIT C.O.D. TO:

ADDRESS:

CITY:

STATE

ZIP

COD AMT: \$

C.O.D. Fee:

PREPAID ☐COLLECT ☐ \$

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's right".

note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

we agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL

CHARGES: \$

FREIGHT CHARGES

Freight Prepaid  
except when  
box at right  
is checked

Check box  
if charges  
to be  
collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

It is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

Edoral Realty Rentals

Cedar Hill Trucking

SHIPPER:

CARRIER:

DATE:

PER:

DATE:

EMERGENCY RESPONSE 888 888-7464

TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION  
INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation  
Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional

ESMI OF NEW YORK  
304 Towpath Road  
Fort Edward, New York 12828

(518)747-5500 Ticket No : 2004312  
Date : 10/08/03

Max. Acceptable Soil: 300.00

Customer: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

Job No : 6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 157.30

Trucker:  
CH-43 CEDAR HILL

Gross : 113200 Scale 1 In 7:19:57AM  
Tare : 35880 STORED Out

Net : 77320 1b  
38.660

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver:

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$

Load 5

30517

SHIPPER NO. \_\_\_\_\_

CARRIER NO. 4A-314

DATE: \_\_\_\_\_

**STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable**

Cedar Hill Trucking

NAME OF CARRIER)			(SCAC)		
<b>TO</b> CONSIGNEE ESMI of New York 304 Towpath Road Fort Edward NY 12828			<b>FROM</b> SHIPPER Edoral Realty Rentals 253 Osborne Road Loudonville NY 12211		
DESTINATION STATE ZIP			ORIGIN STATE ZIP		

DATE: <b>VIA BEST</b>	U.S. DOT Hazmat Reg. No.	VEHICLE NUMBER
-----------------------	--------------------------	----------------

NO. SHIPPING UNIT	Q HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		<b>DT</b> Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)	35 3866 <i>[Signature]</i>	T		

SHIPPER C.O.D. TO: ADDRESS: CITY: STATE ZIP	<b>COD AMT: \$</b>	C.O.D. Fee: PREPAID <input type="checkbox"/> COLLECT <input type="checkbox"/> \$
---	--------------------	--

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's right". Note: - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____.	Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. _____ (Signature of Consignor)	TOTAL CHARGES: \$ <b>FREIGHT CHARGES</b> Freight Prepaid except when box at right is checked <input type="checkbox"/> Check box if charges to be collect
---	--	--

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

The shipper is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: <b>Edoral Realty Rentals</b>	CARRIER: <b>Cedar Hill Trucking</b>
DATE: <u>10/7/03</u>	DATE: <u>10-7-03</u>

EMERGENCY RESPONSE 888 888-7464 TELEPHONE NUMBER: ( )	MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)
--	--

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional.

ESME OF NEW YORK  
304 Towpath Road  
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2004313  
Date : 10/08/03

Max. Acceptable Soil: 300.00

Customer: CP110  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12203

Job No : 6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 195.72

Trucker:  
CH-56 CEDAR HILL

Gross : 114180 Scale 1 In 7:33:17AM  
Tare : 37340 STORED Out

Net : 76840 1b  
38.420

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver:

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$

Load 4

30517

SHIPPER NO.

CARRIER NO.

4A-314

DATE:

## STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

Cedar Hill Trucking

(NAME OF CARRIER)

(SCAC)

O

CONSIGNEE

STREET

DESTINATION

ESM of New York  
304 Towpath Road  
Fort Edward NY 12828

STATE

ZIP

FROM

SHIPPER

STREET

ORIGIN

Edoral Realty Rentals  
253 Osborne Road  
Loudonville NY 12211

STATE

ZIP

DATE:

VIA BEST

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

AE65965

NO SHIPPING UNIT	Q HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		<b>D T</b> Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)		36T <u>58.42</u> <i>Knatter</i>		

EMIT C.O.D. TO:

ADDRESS:

CITY:

STATE

ZIP

COD AMT: \$

C.O.D. Fee:

PREPAID ☐COLLECT ☐ \$

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's right".

ote. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

re agreed or declared value of the property is hereby specifically stated by a shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL

CHARGES: \$

FREIGHT CHARGES

Freight Prepaid  
except when  
box at right  
is checkedCheck box  
if charges  
to be  
collect

CEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and  
in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

Edoral Realty Rentals

Cedar Hill Trucking

SHIPPER:

CARRIER:

PER:

PER:

DATE:

EMERGENCY RESPONSE 888 888-7464

TELEPHONE NUMBER:

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION  
INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation  
regulations Governing Transportation of Hazardous Materials. The use of this column is an optional

ESMI OF NEW YORK  
304 Towpath Road  
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2004316  
Date : 10/08/03

Max. Acceptable Soil: 300.00

Customer: CFI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

Job No : 6440  
EDORAL REALTY  
253 OSBORNE RD  
LOUDONVILLE NY  
Running Tonnage: 234.10

Trucker:  
CH-62 CEDAR HILL

Gross : 115840 Scale 1 In S:46:24AM  
Tare : 39080 Scale 1 Out S:53:57AM

Net : 76760 1b  
38.380

SV04 04 USED CHLORINATED SOLVE

Weigh Master: Kim Matteson #530022

Driver:

*Howie C.H.T 62*

Remarks:

Material \$  
Delivery \$  
Misc \$  
Tax \$  
Total \$



Load 6

30517

SHIPPER NO.

CARRIER NO.

4A-314

DATE:

**STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable**  
Cedar Hill Trucking

NAME OF CARRIER)

(SCAC)

<b>TO</b> CONSIGNEE FREIGHT ESTIMATION			<b>FROM</b> SHIPPER STREET ORIGIN		
ESMI of New York 304 Towpath Road Fort Edward NY 12828			Edoral Realty Rentals 253 Osborne Road Loudonville NY 12211		
STATE			STATE		
ZIP			ZIP		

DATE:

**VIA BEST**

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

NO. SHIPPING UNIT	OHM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		<b>D T</b> Non Hazardous Petroleum Contaminated Soil NY-N012 (tetrachlorethene)	37 <u>38.38</u> <i>Knutson</i>	T		

EMIT C.O.D. TO:

ADDRESS:

CITY:

STATE

ZIP

**COD** AMT: \$

C.O.D. Fee:

PREPAID ☐COLLECT ☐ \$

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note: - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL

CHARGES: \$

FREIGHT CHARGES

Freight Prepaid except when box at right is checked ☐Check box if charges to be collect ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), packed, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. PER:

Edoral Realty Rentals

Cedar Hill Trucking

SHIPPER:

CARRIER:

SEALER:

PER:

DATE: 10-08-03

EMERGENCY RESPONSE

888 888-7464

TELEPHONE NUMBER:

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional

## **Appendix 4**

### **May 2007 BV Soil and Groundwater Analytical Result Summaries**

## **Limited Subsurface Investigation**

**Proposed Walgreen Store #09531**  
253 Osborne Road  
Colonie, New York

Bureau Veritas Project No. 99007-000247  
MAY 29, 2007

*Prepared for:*

Mr. David Erck  
WALGREEN COMPANY  
106 Wilnot Road, MS#1620  
Deerfield, Illinois 60015

*Prepared by:*

BUREAU VERITAS NORTH AMERICA, INC.  
520 South Main Street, Suite 2444  
Akron, Ohio 44311



May 29, 2007

Mr. David Erck  
Walgreen Company  
106 Wilmot Road, MS#1620  
Deerfield, Illinois 60015

Bureau Veritas Project No. 99007-000247

**Subject: Limited Subsurface Investigation**  
Proposed Walgreen Store #09531  
253 Osborne Road  
Colonie, New York

Dear Mr. Erck:

Attached is the Bureau Veritas North America, Inc. report for the above-referenced property.

**This report is certified to Walgreen Co.**

If you have questions or comments, please contact the Chicago Regional office at (630) 795-3200.

Sincerely,  
**Bureau Veritas North America, Inc.**

Daniel C. Zinz  
Staff Environmental Consultant  
Health, Safety and Environmental Services  
Cleveland Regional Office

Paul M. Becks, CPG  
Senior Project Manager  
Health, Safety and Environmental Services  
Cleveland Regional Office

Michael G. Roche, PG  
Senior Project Manager  
Health, Safety and Environmental Services  
Chicago Regional Office

**Bureau Veritas North America, Inc.**  
3140 Finley Road  
Downers Grove, IL 60515

Main: (630) 795-3200  
Fax: (630) 795-1130  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)



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- B Soil and Groundwater Laboratory Analytical Reports & Chain-of-Custody Records



## **EXECUTIVE SUMMARY**

The Walgreen Company retained Bureau Veritas to conduct a Limited Subsurface Investigation (SI) at the site of Proposed Walgreen Store #09531 located at 253 Osborne Road in Colonie, New York (the "subject property"). This work was performed in accordance with Bureau Veritas' proposal number 0711.07.0443.

The Limited SI scope of work was developed based upon the limited review of historic reports pertaining to the subject property. Based upon the review of the reports, a dry cleaner formerly occupied one of the tenant spaces associated with the retail strip center on the subject property. According to the current property owner, the exact tenant space that was utilized for dry cleaning purposes is not known. The dry cleaner reportedly discharged to an onsite septic system historically located in the central portion of the property. The historic investigations identified soil and groundwater contaminated with tetrachloroethene (PCE) in the vicinity of the septic system. The contamination was reported to the New York State Department of Environmental Conservation (NYSDEC) on September 5, 2003 and NY Spills incident number 0305984 was opened for the subject property. The extent of the soil contamination in the vicinity of the septic system was delineated and the soil was excavated for offsite disposal. Confirmatory soil samples collected following the excavation indicated that the soil contaminated with PCE above the NYSDEC Recommended Soil Cleanup Objectives had been removed from the septic tank area and the NYSDEC indicated that no further action was required. The spill was "closed" on November 10, 2003 according to a database review; however the NYSDEC closure letter was dated November 14, 2003. However, no soil sampling appears to have been performed beneath the building in the tenant space(s) believed to have been historically occupied by the dry cleaner and it is not known if the extent of the groundwater contamination was fully delineated.

The purpose of Bureau Veritas' Limited SI scope of work was to further evaluate the subsurface conditions, including groundwater, in the area of the subject property that was reportedly formerly used as a dry cleaner. The Limited SI included the collection and analysis of soil and groundwater samples from 14 soil borings (SB-1 through SB-12, and HA-1 and HA-2) and 12 associated temporary monitoring wells (TW-1 through TW-12) installed on the subject property.

The following conclusions were based on the observations and data from the Bureau Veritas Limited SI:

### **Former Dry Cleaning Facility (253 Osborne Road)**

PCE was detected in 14 of the 17 soil samples submitted for analysis. The highest concentrations were detected in soil samples collected from beneath the current building (HA-1) in the suspected location of the former dry cleaner tenant space as well as the rear (north and east side) of the former dry cleaner tenant space (SB-9). Only one of the soil samples (HA-1 4 to 6 feet) revealed a concentration above the NYSDEC Remedial Program Soil Cleanup Objectives.

One or more chlorinated solvent related constituents (PCE and associated daughter products cis-1,2-DCE and TCE) were detected in 7 of the 12 groundwater samples submitted for analysis at concentrations that exceeded the NYSDEC TAGM #4046 Groundwater Quality Standards. Based on available information, it is Bureau Veritas' opinion that a likely source of the observed impact is a past release from the former onsite dry cleaner. However, an alternative source for the impact in the northern portion of the subject property may include the east adjoining Roxy/Best Cleaners facility. In addition, chloroform was detected in one groundwater sample (TW-5) at a concentration that exceeded the NYSDEC TAGM #4046 Groundwater Quality Standard. However, based upon the additional detection of bromodichloromethane in sample TW-5, the likely source of the chloroform is from a leaking



water line or as a laboratory artifact and, it is Bureau Veritas' opinion these concentrations do not represent a cause for significant concern.

Based on the results of this Limited SI, soil and groundwater impact, above the NYSDEC standards, is present at the subject property and the source and extent of the impacted soil and groundwater have not been delineated. Therefore, further assessment of the subject property is warranted and Bureau Veritas recommends the following:

- 1) Since the analytical results indicated concentrations of one or more chlorinated solvent constituents above the applicable standards, this information must be reported to the NYSDEC in order to proceed with any additional investigative and or remedial work to their approval. Bureau Veritas recommends that the results of this Limited SI be submitted to the current property owner for reporting in accordance with applicable regulations. If the current property owner does not report the noted impact, Bureau Veritas should report the impact in accordance with NYSDEC laws and regulations.
- 2) The presence of the impacted soils/groundwater should be taken into account during planning for site redevelopment. Contact should be initiated with NYSDEC to discuss the latest sampling results and the likely scenario for addressing the impact and achieving "closure" for the noted release. NYSDEC will likely require further investigation to delineate the extent of the soil and groundwater impact. The additional subsurface investigation may include additional soil borings, soil/gas monitoring points to evaluate any potential soil/groundwater vapor to indoor air issues, permanent monitoring wells (installed in the unconsolidated material and possibly into the bedrock beneath the unconsolidated material). In addition, NYSDEC may also require further remedial actions in conjunction with this release. Depending on final site development plans, additional measures may also be necessary to mitigate exposure of construction workers/site occupants.
- 3) If any USTs or potentially impacted materials are encountered during redevelopment, Bureau Veritas should be contacted and any impacted materials/USTs should be properly removed, handled, characterized, and disposed of in accordance with local, state, and federal regulations and guidelines.



## **1.0 INTRODUCTION/BACKGROUND**

The Walgreen Company retained Bureau Veritas to conduct a Limited Subsurface Investigation (SI) at the site of Proposed Walgreen Store #09531 located at 253 Osborne Road in Colonie, New York (the "subject property"). This work was performed in accordance with Bureau Veritas proposal number 0711.07.0443. A Site Vicinity Map is provided as Figure 1.

Bureau Veritas obtained copies of several previous reports, prepared by others, from the Walgreens Environmental Reports System website. The Limited SI scope of work was developed based upon the limited review of historic reports pertaining to the subject property. Based upon the review of the reports, a dry cleaner formerly occupied one of the tenant spaces associated with the retail strip center on the subject property. According to the current property owner, the exact tenant space that was utilized for dry cleaning purposes is not known. The dry cleaner was believed to be in one of the tenant spaces as indicated on Figure 2. The dry cleaner reportedly discharged to an onsite septic system historically located in the central portion of the property. The historic investigations identified soil and groundwater contaminated with tetrachloroethene (PCE) in the vicinity of the septic system. The contamination was reported to the New York State Department of Environmental Conservation (NYSDEC) on September 5, 2003 and NY Spills incident number 0305984 was opened for the subject property. The extent of the soil contamination in the vicinity of the septic system was delineated and the soil was excavated for offsite disposal. Confirmatory soil samples collected following the excavation indicated that the soil contaminated with PCE above the NYSDEC Recommended Soil Cleanup Objectives had been removed from the septic tank area and the NYSDEC indicated that no further action was required. The spill was "closed" on November 10, 2003 according to a database review; however the NYSDEC closure letter was dated November 14, 2003. However, no soil sampling appears to have been performed beneath the building in the tenant space(s) historically occupied by the dry cleaner and it is not known if the extent of the groundwater contamination was fully delineated.

Based on the results of the limited review of historic reports, Bureau Veritas recommended a subsurface investigation to evaluate the potential soil and/or groundwater impact to the subject property from the historic dry cleaning operations. The methods and results of this investigation are presented in the following sections.

## **2.0 SCOPE OF WORK**

The purpose of Bureau Veritas' Limited SI scope of work was to further evaluate the subsurface conditions, including groundwater, in the area of the subject property that was reportedly formerly used as a dry cleaner. The Limited SI included the collection and analysis of soil and groundwater samples from 14 soil borings (SB-1 through SB-12, and HA-1 and HA-2) and 12 associated temporary monitoring wells (TW-1 through TW-12) installed on the subject property.

### **2.2 Soil Borings**

On May 8, 2007, Bureau Veritas oversaw the installation of 14 soil borings on the subject property. The drilling contractor was Zebra Drilling. Prior to fieldwork, utilities were cleared through the New York Underground Facility Protection Organization (UFPO) utility locating service. The soil borings were completed using hydraulic push technology (Geoprobe®) drilling techniques (12 borings) and a stainless steel hand auger (2 borings). Each soil boring/hand auger boring location was backfilled with bentonite and covered with the appropriate ground cover. A summary of the soil boring/hand auger boring locations is provided in the following table.





IDENTIFIED AREA OF CONCERN	Soil Borings
1.) Onsite Historic Dry Cleaner (tenant space in 253 Osborne Road)	SB-1 through SB-12, HA-1 and HA-2

SB = Soil Boring  
HA = Hand Auger Boring

Soil borings SB-1 and SB-2 were installed in the eastern portion of the subject property along the property boundary and topographically downgradient of an adjacent retail strip center where an additional dry cleaner (Roxy/Best Cleaners, 265 Osborne Road) was reportedly located. The Roxy/Best Cleaners tenant space is located approximately 140 feet from the eastern wall of the subject property building. The north wall (rear) of the Roxy/Best Cleaners tenant space is set back approximately 20 feet further northwest than the north wall of the subject property building. As such, SB-3 is also topographically downgradient of this adjoining property. Soil borings SB-3 through SB-5 were installed in the northern and western portion of the subject property in a topographically downgradient location of the onsite building. Soil boring SB-6 was installed on the southwestern portion of the subject property in a topographically upgradient direction of the onsite building. Soil borings SB-7 through SB-10 were installed on the northern, western, and southern sides of the former septic system excavation area, as well as at the rear of the suspected dry cleaner tenant space. Soil borings SB-11 through SB-12 were installed in the area of the demolished building where the suspected dry cleaner was located. Hand auger borings HA-1 and HA-2 were installed inside the subject property building where the former print shop was reportedly located, which may have also been the tenant space utilized for dry cleaning purposes. However, it should be noted that the specific locations and past uses of the various tenant spaces are not well documented.

The boring locations are shown on Figure 2. Drilling and sampling equipment was decontaminated, prior to and after each boring, by washing the equipment with soap and a brush, then air-drying the equipment. Each Geoprobe® soil sample was collected with a disposable acetate liner, which was inserted into the stainless steel sampler.

## 2.3 Sample Collection

Soil borings SB-1 through SB-12 were completed using hydraulic-push technology (Geoprobe®) and hand auger soil borings HA-1 and HA-2 were completed using a stainless steel hand auger. The soil borings were continuously sampled and advanced to a depth of 4 to 7 feet (hand auger borings) and 10 to 14 feet (soil borings) below ground surface (bgs), respectively.

### 2.3.1 Soil Sample Collection

The soil samples were screened in the field using a photoionization detector (PID) equipped with a 10.2 electron volt (eV) probe. The PID, calibrated to an isobutylene standard, measures total concentrations of organic vapors. The PID cannot identify or quantify specific components. Soil samples collected were split into two portions; one portion was placed in a sealed plastic bag for headspace analysis with the PID and geologic classification, and the other portion was placed into a clean laboratory-provided jar for potential laboratory chemical analysis. A Bureau Veritas geologist used the Unified Soil Classification System to describe and classify the soil samples. The soil sample descriptions and the field screening results were recorded on boring logs (see Appendix A).

Based on field screening results, visual observations, and the occurrence of saturated conditions, at least one soil sample was submitted for laboratory analysis from soil borings SB-1 through SB-12, HA-1 and HA-2. Note that an additional, slightly deeper, soil sample was also submitted for analysis from borings SB-9, SB-12 and HA-1. Appropriate decontamination procedures were followed during sample collection and proper chain of custody procedures were employed. The soil samples were



placed into clean laboratory-provided jars, bubble wrapped, and stored in a cooler with ice awaiting shipment to the laboratory.

### 2.3.2 Groundwater Sample Collection

Saturated conditions were encountered at a depth of 5 to 11 feet bgs. Groundwater samples were collected upon completion of soil sampling at soil borings SB-1/TW-1 through SB-12/TW-12. A temporary well was also installed in hand auger boring HA-1, however, no water accumulated in the well. Groundwater was not encountered at boring termination depth (4 ft.) in boring HA-2.

Temporary monitoring wells consisting of one-inch diameter PVC screens and riser were placed into the open boreholes. Groundwater samples were collected from the temporary monitoring wells using dedicated disposable bailers. The groundwater samples were placed into clean laboratory-provided jars, bubble wrapped, and stored in a cooler with ice awaiting shipment to the laboratory.

### 2.4 Analysis of Samples

The soil and groundwater samples collected for laboratory analyses were submitted to the Bureau Veritas' Laboratory located in Novi, Michigan and analyzed in accordance with United States Environmental Protection Agency (USEPA) SW-846 Methods for the parameters summarized in the following table.

IDENTIFIED AREA OF CONCERN	SOIL BORING/TEMPORARY MONITORING WELL	ANALYSES
Former Dry Cleaning Facility	SB-1/TW-1 through SB-12/TW-12, and HA-1 and HA-2	17 Soil Samples – VOCs* 12 Water Samples – VOCs*

SB = Soil Boring

HA = Hand Auger Boring

TW = Temporary Monitoring Well

VOCs\* = Volatile Organic Compounds by Method 8260, includes New York STARS Compounds

### 3.0 FINDINGS

#### 3.2 Site Geology & Field Observations

Bureau Veritas visually examined soil samples during the advancement of soil borings to provide data on subsurface soil type. The depths of the soil borings/hand augers installed at the subject property ranged from 4 to 14 feet bgs.

The shallow subsurface geology in soil borings SB-1 through SB-12, HA-1 and HA-2 generally consisted of brown silty sand from near surface to termination depths of approximately 8 to 15 feet bgs. A thin layer of fill material (2-5 feet) was noted at boring locations SB-6, SB-11 and SB-12. This is likely related to construction of the building and parking lot. Shale bedrock was encountered below the silty sand at several locations (SB-8 through SB-11). Saturated conditions were encountered at a depth of 5 to 11 feet bgs. Groundwater flow direction was not determined, since these were temporary wells and stable readings were not obtained. However, based on surface topography and the proximity of the south flowing Sand Creek to the west, the groundwater in this area is presumed to have a westerly or slight southwesterly component of flow.



Olfactory or visual evidence of impact (e.g., hydrocarbon-like odors, chlorinated solvent-like odors or sheen) were not observed in the soil samples collected. In addition, no significantly elevated PID readings (i.e., above 100 parts per million [ppm]) were detected during the field screening procedures (see boring logs included as Attachment A). Generally, the PID readings were at or below 10 ppm. The highest PID readings were detected in borings SB-8 (~12 ppm) and SB-9 (22.2 ppm). Olfactory or visual evidence of impact (e.g., hydrocarbon-like odors, chlorinated solvent-like odors or sheen) were not observed in the groundwater samples collected.

### **3.3 Analytical Results**

The NYSDEC Division of Environmental Remediation administers a voluntary program to remediate contaminated properties (Brownfield Cleanup Program [BCP]). The remedial program has calculated concentrations of contaminants in soil for the protection of public health for inactive hazardous waste sites. Since the remedial program does not have groundwater standards for inactive hazardous waste sites, the Technical and Administrative Guidance Memorandum (TAGM) #4046 objectives were utilized to evaluate the groundwater analytical results during this investigation.

For the purposes of this investigation, Bureau Veritas compared the soil analytical results to the Remedial Program Soil Cleanup Objectives for Commercial Land Use (direct-contact), the Protection of Ecological Resources, and the Protection of Groundwater. Bureau Veritas compared the groundwater analytical results to the groundwater standards values established in the TAGM #4046 document. The groundwater standards and values assume that the groundwater would be a source of drinking water. It should be noted that the subject property has not entered, and will not enter the NYSDEC BCP at this time, and although the site was a former dry cleaner, it is not currently classified as an inactive hazardous waste site. The clean-up objectives and values utilized during this investigation are only utilized for comparison purposes.

Soil analytical results are summarized in Table 1 and the groundwater analytical results are summarized in Table 2. Copies of the laboratory reports for the soil and groundwater samples are provided in Appendix B.

#### **Soil Samples (SB-1 through SB-12, HA-1 and HA-2)**

Tetrachloroethene (PCE) was detected in numerous soil samples at concentrations above the laboratory detection limits. The majority of the detected PCE concentrations are below the most restrictive TAGM objective for soil. However, the concentration of PCE detected in HA-1 (4-6) of 1.8 milligrams per kilogram (mg/kg) exceeded the NYSDEC Remedial Program Soil Cleanup Objectives – Protection of Groundwater of 1.3 mg/kg. The remaining chemicals of concern associated with chlorinated VOCs were either not detected at concentrations above the laboratory detection limits or were detected at concentrations below the applicable NYSDEC Remedial Program Soil Cleanup Objectives.

#### **Groundwater Samples (TW-1 through TW-12)**

Chloroform was detected in several groundwater samples at concentrations above the laboratory detection limits. The concentration detected in groundwater sample TW-5 of 0.047 milligrams per liter (mg/l) exceeded the NYSDEC TAGM #4046 Groundwater Standard for Chloroform of 0.007 mg/l. Chloroform and Bromodichloromethane were also noted, at concentrations below objectives, in several of the groundwater samples. The source of these compounds is not known and Bureau Veritas is not aware of a potential source at the subject property. However, they belong to a group of compounds known as Trihalomethanes (THMs). THMs are formed during chlorination of potable water and may be found in association with water main breaks and some times are found as lab contaminants. Note that other THMs were detected in one of the laboratory matrix spike duplicates.



As such it is Bureau Veritas opinion that the presence of Chloroform in this sample is not a cause for significant concern and likely is a laboratory artifact.

PCE was detected in groundwater samples TW-3, and TW-7 through TW-12 at concentrations above the laboratory detection limits. The concentrations detected ranged from 0.01 mg/l (TW-10 and TW-12) to 2.2 mg/l (TW-9). The detected concentrations exceeded the NYSDEC TAGM #4046 Groundwater Standard of 0.005 mg/l.

Trichloroethene (TCE) was detected in several groundwater samples at concentrations above the laboratory detection limits. The concentrations detected in TW-3 and TW-9 of 0.087 mg/l and 0.035 mg/l, respectively, exceeded the NYSDEC TAGM #4046 Groundwater Standard of 0.005 mg/l.

Cis-1,2-Dichloroethene (cis-1,2-DCE) was detected in groundwater samples TW-3, TW-8, and TW-9 at concentrations above the laboratory detection limits. The concentrations detected in TW-3 and TW-9 of 0.0077 mg/l and 0.012 mg/l, respectively, exceeded the NYSDEC TAGM #4046 Groundwater Standard of 0.005 mg/l.

The remaining chemicals of concern associated with chlorinated VOCs were not detected above the laboratory detection limits or detected at concentrations below the applicable NYSDEC TAGM#4046 Groundwater Standards.

### **Discussion**

It should be noted that TCE and cis-1,2-DCE are degradation products formed through microbial degradation of PCE and are often found in association with older releases of PCE. As such, it is Bureau Veritas' opinion that a likely source of the observed impact is the former onsite dry cleaner. As stated previously, the specific locations and past uses of the various tenant spaces are not well documented. However, previous city directory reviews did not suggest that the dry cleaner and print shop were located in the strip mall at the same time. Therefore, the potential exists that the former dry cleaner was located in the same tenant space as the current print shop. Furthermore, based on the observed spatial distribution of PCE in groundwater, the highest concentrations of PCE appear to be towards the rear of the suspected dry cleaner location (SB-9, 2.2 ppm) and topographically downgradient of the former septic tank location (SB-8, 0.33 ppm). The distribution of PCE in soils (i.e., SB-9 [2-4 ft., 0.93 ppm] and HA-1 [4-6 ft., 1.8 ppm]) also suggests a release of PCE in or near the rear of the tenant space(s) occupied by the dry cleaner (suspected) and print shop (current).

Based on the observed PCE detections in groundwater at SB-4, SB-7, and SB-2, the detected PCE concentration in the groundwater at SB-3 (0.88 ppm) is somewhat anomalous. This impact may be related to the impact observed in the southern portion of the subject property. However, an alternative source may be the east adjoining Roxy/Best Cleaners Facility (265 Osborne Road). City directories suggest that this facility has been operating at this location since at least 1962. The Roxy Cleaners building is set back further to the northwest than the subject property building; consequently SB-3 is located "topographically" downgradient of the rear of this adjoining building. The observed concentrations (SB-4/SB-7/SB-2 and SB-3) may indicate the edge of an additional off-site plume that has migrated onto the subject property. However, further investigation would be required to evaluate the potential sources and extent of chlorinated solvent impact.

### **4.0 CONCLUSIONS & RECOMMENDATIONS**

The following conclusions were based on the observations and data from the Bureau Veritas Limited SI:



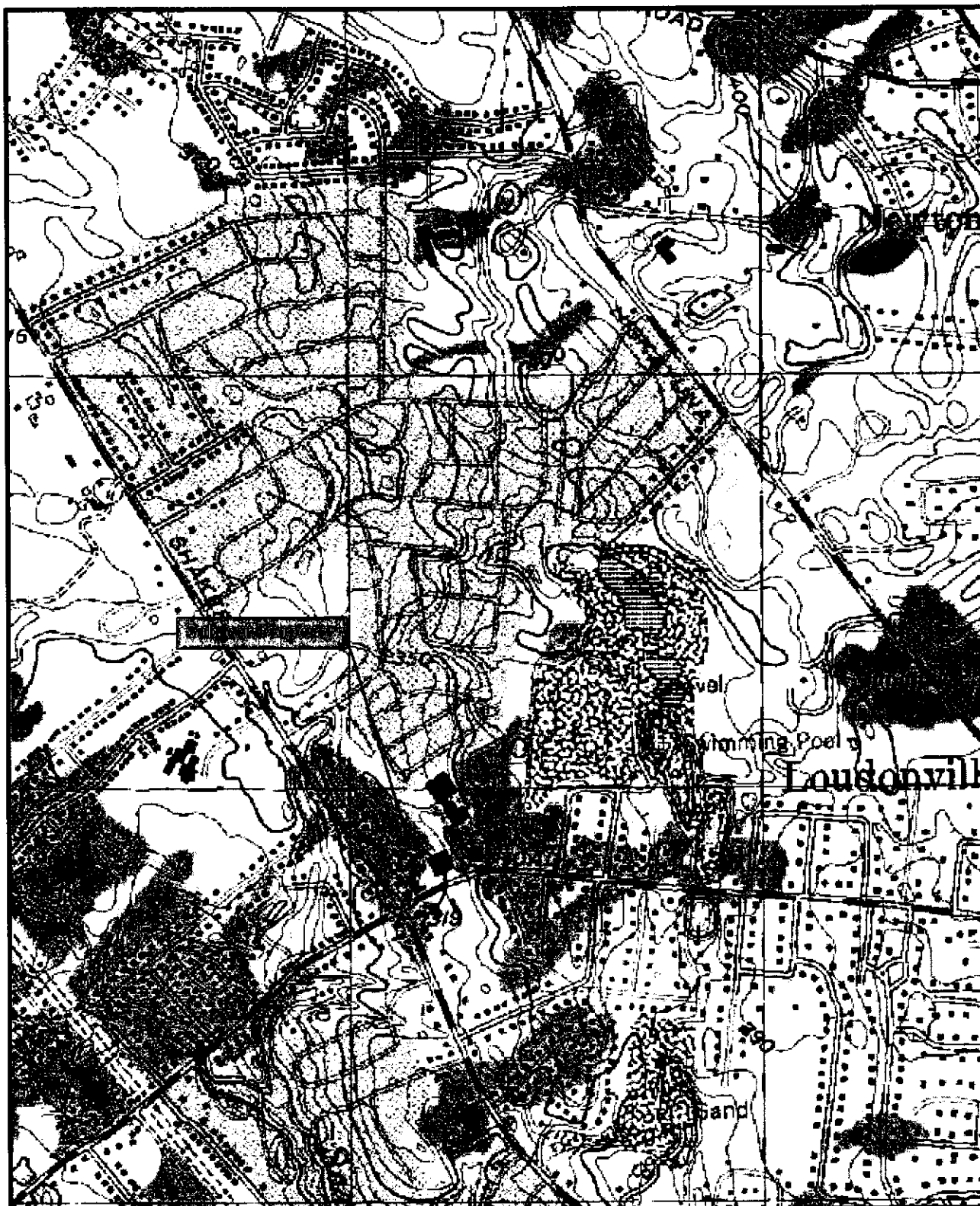
### **Former Dry Cleaning Facility (253 Osborne Road)**

PCE was detected in 14 of the 17 soil samples submitted for analysis. The highest concentrations were detected in soil samples collected from beneath the current building (HA-1) in the suspected location of the former dry cleaner tenant space as well as the rear (north and east side) of the former dry cleaner tenant space (SB-9). Only one of the soil samples (HA-1 4 to 6 feet) revealed a concentration above the NYSDEC Remedial Program Soil Cleanup Objectives.

One or more chlorinated solvent related constituents (PCE and associated daughter products cis-1,2-DCE and TCE) were detected in 7 of the 12 groundwater samples submitted for analysis at concentrations that exceeded the NYSDEC TAGM #4046 Groundwater Quality Standards. Based on available information, it is Bureau Veritas' opinion that a likely source of the observed impact is a past release from the former onsite dry cleaner. However, an alternative source for the impact in the northern portion of the subject property may include the east adjoining Roxy/Best Cleaners facility. In addition, chloroform was detected in one groundwater sample (TW-5) at a concentration that exceeded the NYSDEC TAGM #4046 Groundwater Quality Standard. However, based upon the additional detection of bromodichloromethane in sample TW-5, the likely source of the chloroform is from a leaking water line or as a laboratory artifact and, it is Bureau Veritas' opinion these concentrations do not represent a cause for significant concern.

Based on the results of this Limited SI, soil and groundwater impact, above the NYSDEC standards, is present at the subject property and the source and extent of the impacted soil and groundwater have not been delineated. Therefore, further assessment of the subject property is warranted and Bureau Veritas recommends the following:

- 1) Since the analytical results indicated concentrations of one or more chlorinated solvent constituents above the applicable standards, this information must be reported to the NYSDEC in order to proceed with any additional investigative and or remedial work to their approval. Bureau Veritas recommends that the results of this Limited SI be submitted to the current property owner for reporting in accordance with applicable regulations. If the current property owner does not report the noted impact, Bureau Veritas should report the impact in accordance with NYSDEC laws and regulations.
- 2) The presence of the impacted soils/groundwater should be taken into account during planning for site redevelopment. Contact should be initiated with NYSDEC to discuss the latest sampling results and the likely scenario for addressing the impact and achieving "closure" for the noted release. NYSDEC will likely require further investigation to delineate the extent of the soil and groundwater impact. The additional subsurface investigation may include additional soil borings, soil/gas monitoring points to evaluate any potential soil/groundwater vapor to indoor air issues, permanent monitoring wells (installed in the unconsolidated material and possibly into the bedrock beneath the unconsolidated material). In addition, NYSDEC may also require further remedial actions in conjunction with this release. Depending on final site development plans, additional measures may also be necessary to mitigate exposure of construction workers/site occupants.
- 3) If any USTs or potentially impacted materials are encountered during redevelopment, Bureau Veritas should be contacted and any impacted materials/USTs should be properly removed, handled, characterized, and disposed of in accordance with local, state, and federal regulations and guidelines.



**Figure 1**  
**Site Vicinity Map**

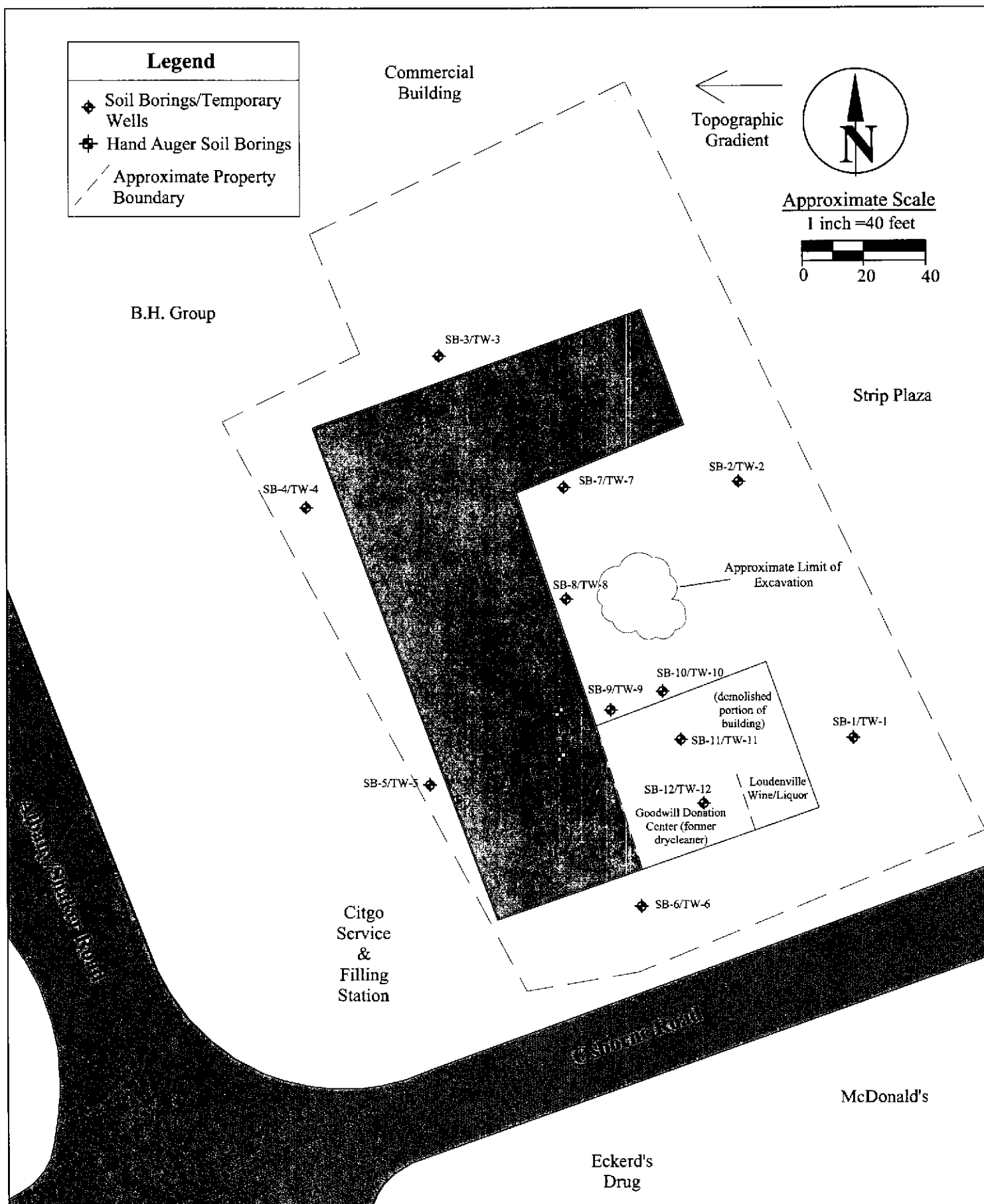
Client:  
Walgreen Company

Clayton Project No:  
99007-000247

S  
I  
T  
E

**Proposed Walgreen Store #09531**  
253 Osborne Road  
Colonie, New York





**Figure 2**

Site Diagram with Soil Borings/Temporary Monitoring Well Locations



S  
I  
T  
E

Proposed Walgreen Store #09531  
253 Osborne Road  
Albany, New York

Client:

Walgreen Company

Project Number: 99007-000247

Table 1

**Summary of Analytical Results of Soil Samples  
Proposed Walgreen Store #09531 Colonie, New York**

Sample Identification	Date Sampled	Tetrachloroethene	Remaining VOCs
<b>Concentrations in mg/kg (ppm)</b>			
SB-1 (0.5-2)	5/8/07	<b>0.01</b>	ND
SB-2 (0.5-2)	5/8/07	<b>0.031</b>	ND
SB-3 (2-4)	5/8/07	<b>0.037</b>	ND
SB-4 (0.5-2)	5/8/07	<b>0.062</b>	ND
SB-5 (2-4)	5/8/07	<0.01	ND
SB-6 (2-4)	5/8/07	<b>0.037</b>	ND
SB-7 (2-4)	5/8/07	<0.01	ND
SB-8 (2-4)	5/8/07	<b>0.14</b>	ND
SB-9 (0.5-2)	5/8/07	<b>0.06</b>	ND
SB-9 (2-4)	5/8/07	<b>0.93</b>	ND
SB-10 (2-4)	5/8/07	<b>0.018</b>	ND
SB-11 (0.5-2)	5/8/07	<b>0.062</b>	ND
SB-12 (0.5-2)	5/8/07	<b>0.027</b>	ND
SB-12 (2-4)	5/8/07	<b>0.026</b>	ND
HA-1 (0.5-2)	5/8/07	<b>0.2</b>	ND
HA-1 (4-6)	5/8/07	<u><b>1.8</b></u>	ND
HA-2 (0.5-2)	5/8/07	<0.01	ND
NYSDEC Remedial Program Soil Cleanup Objectives – Commercial Land Use Soil Cleanup Objectives		150	Various
NYSDEC Remedial Program Soil Cleanup Objectives - Protection of Ecological Resource		2	Various
NYSDEC Remedial Program Soil Cleanup Objectives – Protection of Groundwater		1.3	Various

mg/kg = milligrams per kilogram

ppm = parts per million

SB= Soil Boring

HA = Hand Auger

NYSDEC = New York State Department of Environmental Conservation

**Bold Values Indicate Detected Concentrations****Bold and Underlined Values Exceed the NYSDEC Protection of Groundwater Standard**

A copy of the laboratory analytical results is included in Appendix B





Table 2

**Summary of Analytical Results of Groundwater Samples  
Proposed Walgreen Store #09531 Colonie, New York**

Sample Identification	Date Sampled	Bromodichloromethane	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Toluene	Remaining VOCs
Concentrations in mg/l (ppm)								
TW-1	5/8/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
TW-2	5/8/07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
TW-3	5/8/07	<0.001	<b>0.0056</b>	<b><u>0.0077</u></b>	<b><u>0.88</u></b>	<b><u>0.087</u></b>	<0.001	ND
TW-4	5/8/07	<0.001	<b>0.0024</b>	<0.001	<0.001	<0.001	<0.001	ND
TW-5	5/8/07	<b>0.0046</b>	<b><u>0.047</u></b>	<0.001	<0.001	<0.001	<0.001	ND
TW-6	5/8/07	<0.001	<0.001	<0.001	<0.001	<0.001	<b>0.0044</b>	ND
TW-7	5/8/07	<0.001	<0.001	<0.001	<b><u>0.017</u></b>	<b>0.0013</b>	<0.001	ND
TW-8	5/8/07	<0.001	<0.001	<b>0.0021</b>	<b><u>0.33</u></b>	<b>0.0029</b>	<0.001	ND
TW-9	5/8/07	<0.001	<b>0.002</b>	<b><u>0.012</u></b>	<b><u>2.2</u></b>	<b><u>0.035</u></b>	<0.001	ND
TW-10	5/8/07	<0.001	<0.001	<0.001	<b><u>0.01</u></b>	<0.001	<0.001	ND
TW-11	5/8/07	<0.001	<0.001	<0.001	<b><u>0.041</u></b>	<b>0.0013</b>	<0.001	ND
TW-12	5/8/07	<0.001	<0.001	<0.001	<b><u>0.01</u></b>	<0.001	<0.001	ND
NYSDEC TAGM #4046 Groundwater Standards		0.05	0.007	0.005	0.005	0.005	0.005	Various

mg/l = milligrams per liter

ppm = parts per million

TW = Temporary monitoring Well

NYSDEC = New York State Department of Environmental Conservation

TAGM #4046 = Technical and Administrative Guidance Memorandum #4046

**Bold Values Indicate Detected Concentrations****Bold and Underlined Values Exceed NYSDEC Groundwater Standards**

A copy of the laboratory analytical results is included in Appendix B

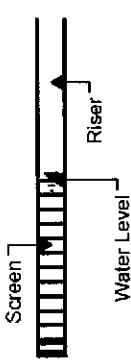
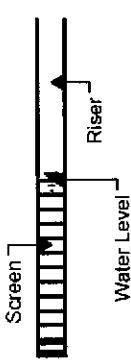




## **APPENDIX A**

### **SOIL BORING LOGS**

BORING NOWELL NO: SB-1/TW-1	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0 ft 0 m	Asphalt / Base.		1*	2	DP	6.8	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2	2	DP	4.5	
4	Note: Saturated at 5.0'.		3	2	DP	2.5	
6			4	2	DP	6.0	
8			5	2	DP	6.0	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-1						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NOWELL NO: SB-2/TW-2	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1*	2	DP	5.4	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2	2	DP	4.8	
4	Note: Saturated at 5.0'.		3	2	DP	7.5	
6			4	2	DP	6.8	
8			5	2	DP	5.3	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-2						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							


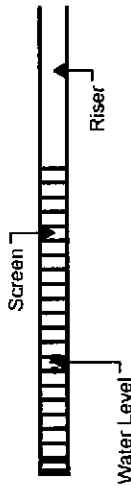
\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-3/TW-3	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 11.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Grass / Topsoil.		1	2	DP	2.7	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	3.5	
4			3	2	DP	0.9	
6			4	2	DP	1.5	
8			5	2	DP	2.2	
10			6	2	DP	1.2	
12	Loose brown fine SAND, saturated, no odor. (SP)		7	2	DP	2.9	
14	Soft brown SILTY SAND, moist, no odor. (SM)						
16	Total Depth = 14.0'						
18	Set Temporary Monitoring Well TW-3						
20							
22							
24							
26							
28							
30							
32							

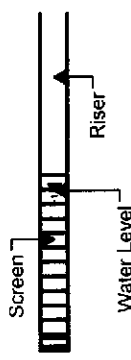
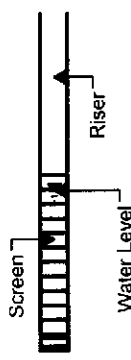
\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-4/TW-4	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonia, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.5'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1*	2	DP	1.3	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2	2	DP	1.3	
4	Note: Saturated at 5.5'.		3	2	DP	2.5	
6			4	2	DP	1.1	
8			5	2	DP	1.4	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-4						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-5/TW-5	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonia, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 6.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Topsoil.		1	2	DP	0.7	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	0.9	
4	Note: Saturated at 6.0'.		3	2	DP	0.7	
6			4	2	DP	1.2	
8			5	2	DP	1.7	
10	Total Depth = 10.0'						
12	Set Temporart Monitoring Well TW-5						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-6/TW-6	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonia, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1	2	DP	1.3	
2	Soft brown FILL material, moist, no odor.		2*	2	DP	2.5	
4			3	2	DP	1.8	
6	Soft brown SILTY SAND, saturated, no odor. (SM)		4	2	DP	2.0	
8			5	2	DP	1.4	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-6						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH



BORING NO/WELL NO: SB-7/TW-7	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt.		1	0	DP	N/A	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	1.4	
4	Note: Saturated at 5.0'.		3	2	DP	0.7	
6			4	2	DP	0.6	
8			5	2	DP	0.6	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-7						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-8/TW-8	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Waigreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1	2	DP	6.0	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	6.3	
4	Note: Saturated at 5.0'.		3	0	DP	N/A	
6	Note: Trace weathered bedrock fragments at 6.0'-10.0'.		4	2	DP	12.0	
8			5	2	DP	12.3	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-8						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							


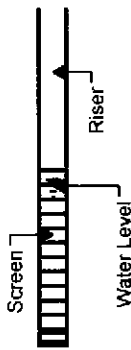
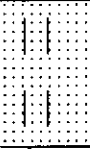
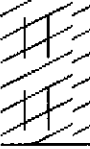
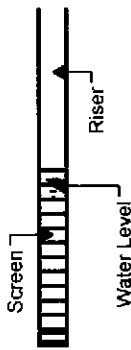
\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-9/TW-9	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.5'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1*	2	DP	10.7	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	22.2	
4			3	2	DP	13.8	
6	Soft brown SILTY CLAY, trace sand, trace bedrock fragments, saturated, no odor. (CL)		4	2	DP	13.5	
8			5	2	DP	7.6	
10	Total Depth = 10.0'						
12	Set Temporary Monitoring Well TW-9						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-10/TW-10	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 6.5'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Asphalt / Base.		1	1	DP	4.1	
2	Soft brown SILTY SAND, moist, no odor. (SM)		2*	2	DP	6.7	
4	Note: Saturated at 6.5'.		3	2	DP	4.0	
6			4	2	DP	4.7	
8			5	2	DP	4.1	
10	Note: Bedrock fragments at 9.5'.						
12	Total Depth = 10.0'						
14	Set Temporary Monitoring Well TW-10						
16							
18							
20							
22							
24							
26							
28							
30							
32							





\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-11/TW-11	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 4.0'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Loose brown gravel and clay FILL material, moist, no odor.		1*	2	DP	8.2	
2	Soft brown SILTY SAND, moist, no odor. (SM) Note: Saturated at 4.0'.		2	2	DP	7.2	
4			3	2	DP	4.0	
6			4	2	DP	10.1	
8	Note: Bedrock fragments at 8.0'.		5	2	DP	6.9	
10	Total Depth = 10.0' Set Temporary Monitoring Well TW-11						
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

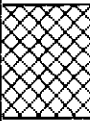
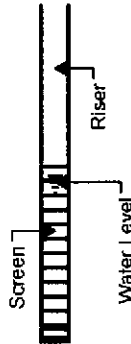
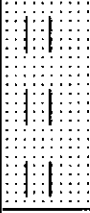

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: SB-12/TW-12	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Geoprobe	SAMPLING METHOD/DIA: Macroliner / 2"	HAMMER WEIGHT: DP
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: Water at 5.5'	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0 ft 0	Brown sand, clay, and gravel, FILL MATERIAL, moist, no odor.		1*	2	DP	6.4	
2			2*	2	DP	10.0	
4	Soft brown SILTY SAND, moist, no odor. (SM)  Note: Saturated at 5.5'.		3	2	DP	4.9	
6			4	2	DP	7.8	
8			5	2	DP	7.1	
10							
12	Total Depth = 10.0' Set Temporary Monitoring Well TW-12						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: HA-1/TW-13	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Hand Auger	SAMPLING METHOD/DIA: Stainless Steel HA	HAMMER WEIGHT: HA
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER: No water accumulated	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft.)	BLOW CNT (6")	SCAN READING	
0	Concrete and subase.		1*	2	HA	4.1	
2	Soft brown SILTY SAND, trace gravel, moist, no odor. (SM)		2	2	HA	7.7	
4	Note: Increase in moisture at 6.0'.		3*	2	HA	8.6	
6			4	2	HA	0.8	
8	Total Depth = 7.0'						
10	Set Temporary Monitoring Well TW-13						
12	(No Water Accumulated for Sampling)						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

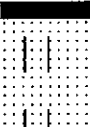

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH

BORING NO/WELL NO: HA-2	PROJECT NO: 99007-000247	PROJECT NAME: Limited Subsurface Investigation
LOCATION: Colonie, New York	CLIENT: Walgreen Company	
DRILLING CO: Zebra Drilling	DRILLER: Colin	GEOLOGIST: DCZ
DRILLING METHOD: Hand Auger (HA)	SAMPLING METHOD/DIA: Stainless Steel HA	HAMMER WEIGHT: HA
BORING DIA: 2"	SCREEN DIA/MTL/LGTH: 1"/PVC/5'	
SCREEN SLOT SIZE: 0.010"	RISER DIA/MTL/LGTH: 1"/PVC/5'	
TOP of CASING ELEVATION: N/A	STATIC WATER LEVEL: N/A	START DATE: 5/8/07
GROUNDWATER ELEVATION: N/A	OTHER:	FINISH DATE: 5/8/07

DEPTH	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SAMPLES			OVA	WELL CONSTRUCTION DETAILS
			SAMPLE #	RECOVERY (ft)	BLOW CNT (6")	SCAN READING	
0	Concrete and subbase.		1*	2	HA	0.5	
2	Soft brown SILTY SAND, trace gravel, moist, no odor. (SM)		2	2	HA	0.0	
4	Total Depth = 4.0'						
6	Boring terminated due to hand auger refusal.						
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							

\*INDICATES SOIL SAMPLE SUBMITTED TO LABORATORY FOR ANALYSIS

NA=NOT APPLICABLE

NR=NO RECOVERY

DP=DIRECT PUSH



## **Appendix 5**

### **September 2007 Soil and Groundwater Analytical Result Summary**

**Table 1**  
**September/October 2007 Soil and Groundwater Analytical Results**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

**Soil Analytical Result Summary**

Sample ID	PCE	Acetone	Sample Date
OS3/12'	ND	ND	9/24/2007
OS2/13'	ND	ND	9/24/2007
OS4/5'	ND	ND	9/24/2007
OS4/9'	ND	ND	9/24/2007
OS1/12'	95	ND	9/24/2007
OS6/3'	ND	22	9/25/2007
OS6/9'	ND	ND	9/25/2007
OS5/11'	ND	ND	9/25/2007
OS5/5'	ND	ND	9/25/2007
OS7/5'	190	ND	9/25/2007
OS7/9'	150	ND	9/25/2007
OS8/5'	24	ND	9/25/2007
OS8/15'	160	ND	9/25/2007

All concentrations are in micrograms per kilogram (ug/kg) or parts per billion (ppb).

PCE = tetrachloroethene

ND = non-detect at laboratory practical quantitation limit (PQL), which is

5 ug/kg for PCE and 10 ug/kg for acetone.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

**Groundwater Analytical Result Summary**

Sample ID	PCE	Vinyl Chloride	Sample Date
OS-1	430	ND	9/27/2007
OS-1	410	ND	10/5/2007
OS-2	ND	22	9/27/2007
OS-3	ND	ND	9/27/2007
OS-4	ND	ND	9/27/2007
OS-5	ND	ND	9/27/2007
OS-6	ND	ND	9/27/2007
OS-7	42	ND	9/27/2007
OS-8	67	ND	9/27/2007

All concentrations are in micrograms per liter (ug/l) or parts per billion (ppb).

PCE = tetrachloroethene

ND = non-detect at laboratory practical quantitation limit (PQL), which is 5 ug/l for PCE

and 10 ug/l for vinyl chloride; except for OS-1 where the PQL was 25 ug/l for PCE

and 50 for vinyl chloride due to a 5-fold dilution.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

**Table 2**  
**Well Construction Details and Groundwater Elevations**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

Well ID	Measuring Point Elevation (feet amsl)	Flush-Mount Cover Elevation (feet amsl)	Well Depth (feet)	Screen Interval (feet)	Depth to Water 9/27/07 (feet)	Groundwater Elevation 9/27/07	Depth to Water 10/5/07	Groundwater Elevation 10/5/07
OS-1	502.18	502.60	12.7	7.7 - 12.7	9.95	492.23	9.99	492.19
OS-2	505.42	506.07	14.0	10.0 - 15.0	10.13	495.29	10.22	495.20
OS-3	507.30	507.70	19.0	7.0 - 17.0	6.42	500.88	6.47	500.83
OS-4	501.08	501.54	12.4	7.4 - 12.4	5.99	495.09	6.07	495.01
OS-5	505.59	506.08	12.5	7.5 - 12.5	6.41	499.18	6.59	499.00
OS-6	507.11	507.59	14.0	9.0 - 14.0	5.09	502.02	5.25	501.86
OS-7	507.49	502.60	12.5	7.5 - 12.5	6.21	501.28	6.19	501.30
OS-8	506.90	507.08	18.3	8.0 - 18.0	12.65	494.25	12.74	494.16

- 1) All wells constructed with 2-inch diameter, PVC well screen and riser pipe, and capped with flush-mount curb boxes.
- 2) Measuring point elevation is the top of PVC riser pipe.


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205						<b>BORING NO.:</b> OS-1	
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			Datum: Grade
<b>GROUNDWATER DEPTH:</b> 9.95 feet				Diameter			Start Date: 09/24/07
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			End Date: 09/24/07
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall			Driller: Mike Sarro
							Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	2		0	Brown fine sand	Rec = 1.1 feet
		2				Dry
		1				
4		2				
	S-2	WOH'			same	Rec = 1.0 feet
		2		0		Dry
		2				
6		3				
	S-3	3		0	same	Rec = 0.3 feet
		3				Dry
		4				
8		5				
	S-4	2		0	Brown, orange fine to medium sand, some silt	Rec = 1.2 feet
		2				Moist
		4				
10		5				
	S-5	3			Brown, orange fine to medium sand	Rec = 1.8 feet
		4		0		Moist to wet
		5				Wet at 11 feet
12		8				Collected Sample for lab analysis

# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203					BORING NO.: OS-1	
PROJECT: 253 Osborne Road					Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC					Job No.: E709-01-07-953	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12		5			same	Rec = 0.7 feet
	S-6	50/1		0	Gray fine to medium to coarse gravel (shale chips)	Wet
					Bedrock at 12.7 feet	
14					End of Boring at 12.7 feet	
					Construct 2-inch PVC monitoring well	
					Screen 7.7 to 12.7 feet	
16					2 bags of filter sand to 7 feet	
					2 feet bentonite chips above filter sand to 5 feet	
					Flush-mount curb box	
18						
20						
22						
24						
26						
28						
30						


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> II Winners Circle, Albany, New York 12205						<b>BORING NO.: OS-2</b>	
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			
<b>GROUNDWATER DEPTH:</b> 10.13 feet				Diameter			
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall			
							Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	6 3 2 1		0	Brown, orange fine to medium sand and silt	Rec = 0.4 feet Dry
4	S-2	3 2 1 3		0	Brown, orange fine to medium sand, trace silt	Rec = 1.1 feet Dry
6	S-3	2 3 2 2		0	same	Rec = 1.7 feet Moist
8	S-4	15 7 7 10		0	same	Rec = 1.2 feet Moist to wet
10	S-5	3 4 5 8		0	Brown, orange fine to medium sand, some silt	Rec = 1.8 feet Moist to wet Collected sample for lab analysis
12						

# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-2	
PROJECT: 253 Osborne Road						Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks	
12		15			same	Rec = 1.2 feet	
	S-6	11		0	Gray, black fine to medium to coarse gravel (Shale chips) and fine to medium sand	Wet	
		7					
14		10			Bedrock at 14.0 feet		
					End of Boring at 14.0 feet		
16					Construct 2-inch PVC monitoring well		
					Screen 9.0 to 14.0 feet		
					2 bags of filter sand to 7 feet		
					2 feet bentonite chips above filter sand to 5 feet		
18					Flush-mount curb box		
20							
22							
24							
26							
28							
30							

## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> II Winners Circle, Albany, New York 12205						<b>BORING NO.: OS-3</b>	
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			
<b>GROUNDWATER DEPTH:</b> 6.42 feet				Diameter			
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall			
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	2		0	Brown, orange fine to medium sand and silt	Rec = 1.9 feet
		3				Dry
		3				
4	S-2	2			Brown, orange fine to medium sand, trace silt	Rec = 1.7 feet
		2		0		Dry to moist
		2				
6	S-3	5			same	Rec = 2.0 feet
		4		0		Moist to wet
		3				
8	S-4	2			same	Rec = 1.9 feet
		3		0		Moist to wet
		4				
10	S-5	1			Brown, orange fine to medium sand,	Rec = 1.5 feet
		3		0	several black spots	Wet
		1				Collected sample
12		2				for lab analysis



## TEST BORING LOG

CPI ENVIRONMENTAL SERVICES, INC II Winnors Circle, Albany, New York 12205 (518) 458-9203						<b>BORING NO.: OS-3</b>
<b>PROJECT: 253 Osborne Road</b>						Sheet <u>2</u> of <u>2</u>
<b>CLIENT: 253 Osborne Road Associates, LLC</b>						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12	S-6	2			Brown, orange fine to medium sand, trace coarse gravel, trace fill (rusty nail)	Rec = 1.8 feet
		2		0		Wet
		3				
14		3				
	S-7		2		Brown, orange fine to medium sand	Rec = 1.8 feet
			1	0		Wet
			1			
16			2			
	S-8	4			Gray, black fine to medium gravel (shale chips) fine to medium sand	Rec = 1.6 feet
		2		0		Wet
		8				Close to bedrock
18		9				Running sands
					Auger to bedrock Bedrock at 19.0 feet End of Boring at 19.0 feet	Auger to bedrock
20						
					Construct 2-inch PVC monitoring well Screen 9.0 to 19.0 feet 2 bags of filter sand to 7 feet 2 feet bentonite chips above filter sand to 5 feet Flush-mount curb box	
22						
24						
26						
28						
30						


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> II Winners Circle, Albany, New York 12205						<b>BORING NO.: OS-4</b>	
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			Datum: Grade
<b>GROUNDWATER DEPTH:</b> 5.99 feet				Diameter			Start Date: 09/24/07
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			End Date: 09/24/07
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall			Driller: Mike Sarro
							Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	3		0	Brown, orange fine to medium sand, trace silt	Rec = 1.9 feet
		3				Dry
4	S-2	2		0	Brown, orange fine to medium sand, some silt	Rec = 1.8 feet
		1				Moist
		3				Collected sample
6	S-3	4			Brown, orange fine to medium to coarse sand, some silt	Rec = 1.3 feet
		5		0		Moist
		6				
8	S-4	1			Brown, orange fine to medium sand, some silt	Rec = 1.2 feet
		2		0		Wet
		2				Collected sample
10	S-5	5			Brown, orange fine to medium to coarse sand, some fine to medium gray gravel (shale chips), some silt	Rec = 0.9 feet
		3				Wet
		4		0		
		4				
12		8				

# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-4
PROJECT: 253 Osborne Road						Sheet <u>2</u> of <u>2</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12	S-6	refusal			same	Rec = 0.6 feet
				0		Wet
					Bedrock at 14.0 feet	
14					End of Boring at 14.0 feet	
16					Construct 2-inch PVC monitoring well	
					Screen 9.0 to 14.0 feet	
					2 bags of filter sand to 7 feet	
					2 feet bentonite chips above filter sand to 5 feet	
18					Flush-mount curb box	
20						
22						
24						
26						
28						
30						


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 26 Computer Drive West, Albany, New York 12205						<b>BORING NO.:</b> OS-5	
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			
<b>GROUNDWATER DEPTH:</b> 6.41 feet				Diameter			
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall			
						Datum: Grade	
						Start Date: 09/25/07	
						End Date: 09/25/07	
						Driller: Mike Sarro	
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	2		0	Brown, orange fine to medium sand, some silt	Rec = 1.5 feet
		3				Dry
		2				
4	S-2	1			Brown, orange fine to medium sand, some silt	Rec = 1.5 feet
		1		0	siltier with depth	Moist
		1				Collected sample
6	S-3	2			0 - 1.2 feet - Brown, orange fine to medium to	Rec = 2.0 feet
		1		0	coarse sand, some silt	Moist
					1.2 to 2.0 feet - Gray, orange fine to medium sand,	
8	S-4	1			trace silt	
		2			Brown, orange fine to medium sand, trace silt	Rec = 1.5 feet
		3		0		Wet
		3				
10	S-5	5				
		1			0 to 0.8 - Brown, orange fine to medium sand,	Rec = 1.4 feet
		7		0	trace silt	Wet
		8			0.8 to 1.4 feet - Brown gray fine to medium to coarse	Collected sample
12		16			gravel (shale chips) and fine to medium sand	for lab analysis
					sone silt (till)	

# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-5	
PROJECT: 253 Osborne Road						Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks	
12	S-6				Auger to bedrock	Rec = 0.6 feet	
						Wet	
					Bedrock at 12.5 feet		
14					End of Boring at 12.5 feet		
16					Construct 2-inch PVC monitoring well		
					Screen 7.5 to 12.5 feet		
					2 bags of filter sand to 5 feet		
					2 feet bentonite chips above filter sand to 3 feet		
18					Flush-mount curb box		
20							
22							
24							
26							
28							
30							


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205					<b>BORING NO.: OS-6</b>	
<b>PROJECT:</b> 253 Osborne Road					Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC					Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.					Meas.	
<b>PURPOSE:</b> Environmental Assessment					Ground Elev.:	
<b>DRILLING METHOD:</b> Hollow Stem Auger			Sample	Core	Casing	Datum: Grade
<b>DRILL RIG TYPE:</b> Truck Mounted CME		Type				Start Date: 09/25/07
<b>GROUNDWATER DEPTH:</b> 5.09 feet		Diameter				End Date: 09/25/07
<b>MEASURING POINT:</b> Top of PVC Casing		Weight				Driller: Mike Sarro
<b>DATE OF MEASUREMENT:</b> September 27, 2007		Fall				Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	2		0	0 - 0.8 feet - Brown, orange fine to medium sand and silt	Rec = 1.4 feet
		2				Dry
		2			0.8 to 1.4 feet - Brown, black fine to medium to coarse sand, some silt	Collected sample for lab analysis
		2				
4	S-2	2		0	0 - 0.7 feet - Brown, orange fine to medium sand, some silt	Rec = 1.3 feet
		2				Moist
		2			0.7 to 1.3 feet - Brown, orange fine to medium sand and silt	
		1				
6	S-3	WOH			Brown, orange fine to medium sand, trace silt	Rec = 1.4 feet
		2		0		Moist
		2				
		4				
8	S-4	7		0	0 to 0.9 feet - Brown, orange fine to medium sand, some silt	Rec = 1.5 feet
		9				Wet
		11			0.9 to 1.2 feet - Gray, black fine to medium to coarse gravel, some silt (close to rock)	Collected sample for lab analysis
		18				
10	S-5			0	auger down since close to rock but go two feet without hitting rock	no sample
12						

# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203					BORING NO.: OS-6	
PROJECT: 253 Osborne Road					Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC					Job No.: E709-01-07-953	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12	S-6	1			0 to 1.0 - Brown, orange fine to medium sand, some silt	Rec = 1.1 feet
		7		0		Wet
		8				
14		16				1.0 to 1.1 feet - Gray, black fine to medium to coarse gravel (shale chips)
					Bedrock at 14.0 feet	
					End of Boring at 14.0 feet	
16					Construct 2-inch PVC monitoring well	
					Screen 9 to 14 feet	
					2 bags of filter sand to 7 feet	
					2 feet bentonite chips above filter sand to 5 feet	
18					Flush-mount curb box	
20						
22						
24						
26						
28						
30						

## TEST BORING LOG


<b>CPI ENVIRONMENTAL SERVICES, INC. A82</b> II Winners Circle, Albany, New York 12205						<b>BORING NO.:</b> OS-8
<b>PROJECT:</b> 253 Osborne Road						Sheet <u>1</u> of <u>2</u>
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas.
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type		
<b>GROUNDWATER DEPTH:</b> 12.65 feet				Diameter		
<b>MEASURING POINT:</b> Top of PVC Casing				Weight		
<b>DATE OF MEASUREMENT:</b> September 27, 2007				Fall		
						Datum: Grade
						Start Date: 09/25/07
						End Date: 09/25/07
						Driller: Mike Sarro
						Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						No 0 -2 foot sample
2	S-1	2		0	Brown, orange fine to medium sand, some silt	Rec = 1.3 feet
		1				Dry
		1				
4	S-2	1			same	Rec = 1.5 feet
		1		0		Dry
		1				Collected sample
6	S-3	1			same	Rec = 0.6 feet
		1		0		Dry to moist
		1				
8	S-4	2			same	Rec = 1.4 feet
		1		0		Moist
		3				
10	S-5	4			Brown, orange fine to medium sand, trace silt	Rec = 1.5 feet
		1		0		Moist
		3				
12		4				



# TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-8	
PROJECT: 253 Osborne Road						Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks	
12							
	S-6	3			0 to 0.4 feet - Brown, orange fine to medium sand, some silt (moist)	Rec = 1.3 feet	
		3		0		Wet	
		2			0.4 to 1.6 ft - Brown, orange fine to medium sand, some fine to medium to coarse gravel, some silt (wet)		
14		5					
	S-7	1			Brown, orange, black fine to medium to coarse sand, and fine to medium to coarse gravel, some silt	Rec = 1.2 feet	
		4		0		Wet	
		4					
16		7					
	S-8	9			0 to 1.6 feet - Brown, orange, black fine to medium to coarse sand, some silt	Rec = 2.0 feet	
		9		0		Wet	
		8			1.6 to 2.0 feet - Gray, balck fine to medium to coarse gravel (shale chips)	Close to bedrock	
18		12					
					Auger to bedrock Bedrock at 18.3 feet End of Boring at 18.3 feet		
20							
					Construct 2-inch PVC monitoring well Screen 8.3 to 18.3 feet 2 bags of filter sand to 6 feet 2 feet bentonite chips above filter sand to 4 feet Flush-mount curb box		
22							
24							
26							
28							
30							

## **Appendix 6**

### **October 2007 Soil, Groundwater, and Septic Tank Analytical Result Summary**

**Table 1**  
**CPI Soil Analytical Result Summary**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

Sample ID	PCE	Acetone	Sample Date
OS3/12'	ND	ND	9/24/2007
OS2/13'	ND	ND	9/24/2007
OS4/5'	ND	ND	9/24/2007
OS4/9'	ND	ND	9/24/2007
OS1/12'	95	ND	9/24/2007
OS6/3'	ND	22	9/25/2007
OS6/9'	ND	ND	9/25/2007
OS5/11'	ND	ND	9/25/2007
OS5/5'	ND	ND	9/25/2007
OS7/5'	190	ND	9/25/2007
OS7/9'	150	ND	9/25/2007
OS8/5'	24	ND	9/25/2007
OS8/15'	160	ND	9/25/2007

Sample ID	PCE	1,2,4-Trichlorobenzene	Sample Date
G-1/4-8	40	5	10/26/2007
G-1/8-12	130	ND	10/26/2007
G-2/4-5.5	200	ND	10/26/2007
G-3/4-8	24	ND	10/26/2007
G-3/8-12	120	ND	10/26/2007
G-4/2-4	17	ND	10/26/2007
G-4/8-12	32	ND	10/26/2007
G-5/4-8	ND	ND	10/26/2007
G-5/12-16	ND	ND	10/26/2007
G-6/4-8	ND	ND	10/26/2007
G-6/8-12	ND	ND	10/26/2007
G-7/4-8	ND	ND	10/26/2007
BH-1 (6')	ND	ND	10/30/2007

Sample ID	PCE	Chlorobenzene	Sample Date
S-1	26	18	10/30/2007
SL-1	ND	5	10/30/2007
DW-1	ND	ND	10/30/2007

All concentrations are in micrograms per kilogram (ug/kg) or parts per billion (ppb);  
except for the water sample S-1, which is in micrograms per liter (ug/l) or ppb.

PCE = tetrachloroethene

ND = non-detect at laboratory practical quantitation limit (PQL), which is

5 ug/kg for PCE, 1,2,4-trichlorobenzene, and chlorobenzene; and 10 ug/kg for acetone.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

## **Appendix 7**

### **November 2007 Soil Vapor Report and Analytical Result Summary**

**Table 1**  
**Ambient Air and Soil Vapor Analytical Result Summary**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

Sample ID	Detected VOC	Concentration (mcg/m <sup>3</sup> )
01-SG	Isopropyl alcohol	390
	PCE	480
04-SG	TCE	41
	PCE	680
06-SG	PCE	9,100
07-SG	Isopropyl alcohol	630
	PCE	400
10-SG	PCE	9,700
11-SG	Acetone	14
	Chloroform	6.1
	PCE	120
12-SG	Acetone	18
	Carbon disulfide	5.3
	Chloroform	7.7
	Benzene	3.4
	PCE	80
02-1A	Acetone	7.7
	Isopropyl alcohol	22
	Freon 12	2.7
03-1A	Isopropyl alcohol	87 E
	2-Butanone (MEK)	2.2
	1,2,4-Trimethylbenzene	3
	PCE	3.6
	Freon 12	2.7
05-1A	Acetone	3
	Isopropyl alcohol	560 E
	Freon 12	3
08-1A	Chloromethane	1
	Ethanol	3.8
	2-Butanone (MEK)	1.9
	Freon 12	2.8

- 1) Only detected VOCs are reported; all other VOCs were not detected.
- 2) Samples were collected on November 28, 2007.
- 3) Samples were analyzed by EMSI Analytical in Westmont, NJ.
- 4) E = Estimated concentration ; exceeded calibration limit

**Vapor Intrusion Investigation Report**  
253 Osborne Road, Colonie, Albany, New York

December 2007

By:

Alpine Environmental Services, Inc.  
1146 Central Avenue  
Albany, New York 12205  
Phone (518) 453-0146  
Fax (518) 453-0175



**Vapor Intrusion Investigation Report  
253 Osborne Road, Colonie, New York  
December 21, 2007**

## **Background**

The Subject Property, 253 Osborne Road, Colonie, New York, contains one structure on approximately 2 acres of land. A portion of the structure was operated as a dry cleaning facility in the past and chlorinated solvent contamination has been identified in the soils and groundwater at the site. The planned development at the site includes complete demolition of the existing structure and construction of a new building.

As part of the spill investigation at the subject Property, The New York State Department of Environmental Conservation and The New York State Department of Health requested a vapor intrusion investigation of the current building and soils at the site to determine if soil vapors are elevated and if they enter the building on the site. Additionally, sampling of the soil vapors was requested on the adjoining property to the north, adjacent to the structure. These sampling locations are hydraulically down gradient (determined from a previous round of groundwater sampling) of the area of highest soil and groundwater contamination.

## **Limitations**

The Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYS DOH 10/2006) indicates sampling within buildings should be performed during the "heating season" because "vapor intrusion is more likely to occur when the heating system is on and the doors and windows are closed". The current structure at the Subject Property does not have a heating system in operation due to the planned demolition of the structure.

Vapor intrusion is effected by numerous conditions and is site specific as well as building specific. The result of this vapor intrusion investigation should not be substituted directly for the building planned for construction at the site.

## Sample Locations

The Vapor Intrusion Investigation includes four types of samples:

1. Sub Slab Vapor Samples
2. Soil Vapor Samples
3. Indoor Air Quality Samples
4. Outside the Building Reference Sample.

Sample locations include:

- Two sub slab locations within the on-grade portion of the remaining building each with a corresponding indoor air sample,
- One location in the northwest basement area with a corresponding indoor air sample,
- One soil vapor sample in the footprint of the demolished portion of the building,
- One soil vapor sample at the northern end of the property,
- Three soil vapor samples on the adjoining property to the north, adjacent to the building,
- One outside sample at the northern end of the property as an ambient reference.

Samples were collected over a time integral of approximately eight hours using timed flow controllers. Samples were analyzed via EPA Method TO-15.

## Results of Testing

The results of the testing are summarized in the following tables.

### Indoor Air and Ambient Reference Results

Location	TCE Result (mcg/m <sup>3</sup> )	PCE Result (mcg/m <sup>3</sup> )
#02; Inside Structure, South End, Indoor Air	N/D < 2.7	N/D < 3.4
#03; Inside Structure, Northwest, Basement, Indoor Air	N/D < 2.7	3.6
#05; Inside Structure, Northeast, Indoor Air	N/D < 2.7	N/D < 3.4
#08; Outside Structure, Northwest, Ambient Reference	N/D < 2.7	N/D < 3.4

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

trichloroethene - (TCE)

tetrachloroethene - (PCE)

N/D < – None Detected at or above the given method detection limit.



## Soil Vapor and Sub Slab Soil Vapor Results

Location	TCE Result (mcg/m <sup>3</sup> )	PCE Result (mcg/m <sup>3</sup> )
#01; Inside Structure, South End, Slab on Grade, Sub Slab Vapor	N/D < 27	480
#04; Inside Structure, Northwest, Basement, Sub Slab Vapor	41	680
#06; Inside Structure, Northeast, Slab on Grade, Sub Slab Vapor	N/D < 1300	9100
#07; Outside Structure, Southeast, Soil Vapor	N/D < 54	400
#09; Outside Structure, North end, near septic, Soil Vapor	N/D < 1300	49000
#10; Adjacent Property, Adjacent to Structure, Southwest Corner, Soil Vapor	N/D < 1300	9700
#11; Adjacent Property, Adjacent to Structure, South Center, Soil Vapor	N/D < 5.4	120
#12; Adjacent Property, Adjacent to Structure, Southeast Corner, Soil Vapor	N/D < 5.4	80

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

trichloroethene - (TCE)

tetrachloroethene - (PCE)

N/D < – None Detected at or above the given method detection limit.

Interpretation of results involves the use of the New York State Department of Health Decision Matrix. The Matrix compares indoor or ambient levels of the contaminants to the sub slab and soil vapor results to determine the next course of action.

Soil Vapor/Indoor Air Decision Matrix 1 could not be used due to interference from high levels of PCE in the soil vapor/sub slab vapor samples. The high dilution during laboratory analysis required to target the higher concentration of PCE caused the detection limit for TCE to be elevated above the highest soil vapor level on the Decision Matrix.

## Soil Vapor / Indoor Decision Matrix 1 For trichloroethene (TCE)

Sub Slab Vapor or Soil Vapor Concentration of Compound (mcg/m <sup>3</sup> )	Indoor Air Concentration of Compound (mcg/m <sup>3</sup> )			
	< 0.25	0.25 to < 1.0	1.0 to < 5.0	5.0 and above
< 5	No Further Action	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.
5 to < 50	No Further Action	Monitor	Monitor	Mitigate
50 to < 250	Monitor	Monitor/ Mitigate	Mitigate	Mitigate
250 and above	Mitigate	Mitigate	Mitigate	Mitigate

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

Results for tetrachloroethene (PCE) were useful in the Soil Vapor/Indoor Air Decision Matrix 2 and are included in the following table:

**Soil Vapor / Indoor Decision Matrix 2, For tetrachloroethene (PCE)**

	Indoor Air/Ambient Air Concentration of Compound (mcg/m <sup>3</sup> )			
Sub Slab Vapor or Soil Vapor Concentration of Compound (mcg/m <sup>3</sup> )	< 3	3 to 30	30 to < 100	100 and above
< 100	No Further Action  <u>*Sample #12</u>	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.
100 to < 1,000	Monitor  <u>Sample #01</u> <u>*Sample #07</u> <u>*Sample #11</u>	Monitor/ Mitigate  <u>Sample #04</u>	Mitigate	Mitigate
1,000 and above	Mitigate  <u>Sample #06</u> <u>*Sample #09</u> <u>*Sample #10</u>	Mitigate	Mitigate	Mitigate

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

\*Soil Vapor Sample with Outside Ambient Sample for Comparison

Result of None Detected < 3.4 were rounded to None Detected < 3.

## Conclusion

All vapor intrusion decision matrix results were “monitor” or “mitigate” with the exception of sample #12, adjacent to the southwest corner of the structure on the adjoining property to the north, which produced a “no further action” result.

Sample results inside the current Subject Property structure demonstrate the presence of soil vapors exceeding acceptable concentrations, and require mitigation. However, the current plans for the Subject Property are for the complete demolition of the entire structure on the property, therefore mitigation of the soil vapor intrusion in the current structure is not recommended. Vapor

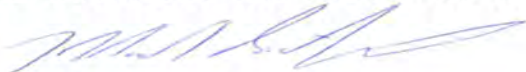
Intrusion Investigation and Mitigation should be incorporated into any new construction at the site or into the existing buildings if the development plans change to include reuse of the current structure, or portion thereof.

Soil vapor results showed the highest contaminant levels to the north of the septic tank (no longer in use), and soil vapors were still significantly elevated on the adjoining property, further to the north, adjacent to the structure. With the levels of PCE present in the adjoining property soil gas, adjacent to the structure, there is a strong likelihood that the sub slab soil vapors of the structure contain PCE and/or TCE. A Vapor Intrusion Investigation would be necessary to determine the impact of the identified nearby soil gas contaminants on the structure and it's indoor air.

If you require any further information or discussion, feel free to contact me (518) 453-0146 ext. 303.

Sincerely,

**ALPINE ENVIRONMENTAL SERVICES, INC.**



Mark Schnitzer, P.E.  
Environmental Engineer

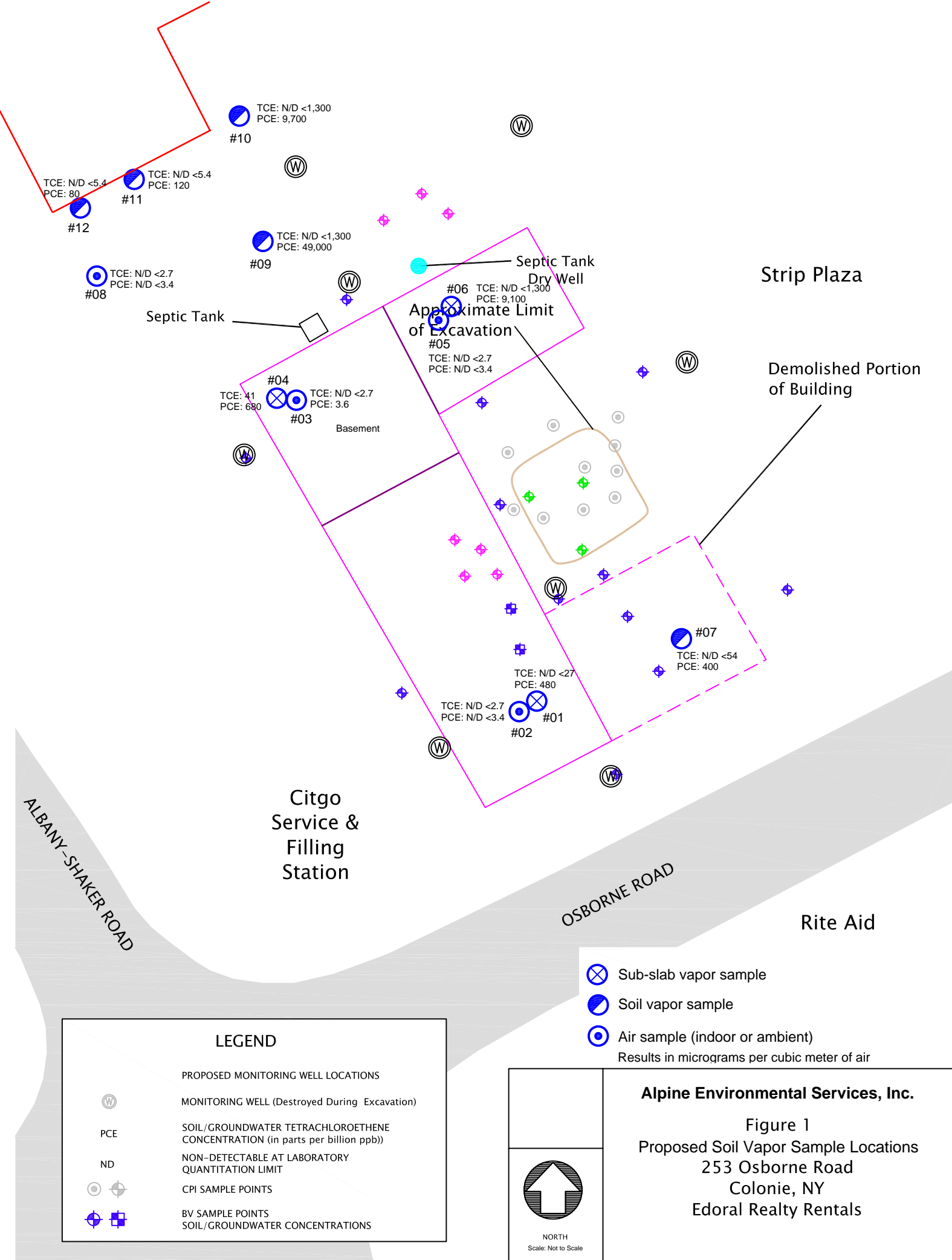
email: [MarkS@Alpineenv.com](mailto:MarkS@Alpineenv.com)

ph (518) 453-0146

fax (518) 453-0175

Included:

Drawing of Vapor Intrusion Investigation Test locations



## **Appendix 8**

### **December 2007 Septic Tank Water Waste Manifest**

**Transportation Manifests  
For  
Septic Tank Liquid and Sludge**



UNITED  
INDUSTRIAL  
SERVICES

DIVISION OF UNITED OIL RECOVERY, INC.

### CHAIN OF CUSTODY

#### Incoming Load

Date 12/04/07 Transporter PRECISION IND MAINTEN

Time In \_\_\_\_\_ Time Out \_\_\_\_\_

Sample Number M04 Sample Collector \_\_\_\_\_

Work Order 00680062 Receiving Tanks \_\_\_\_\_

☐ Total Halogens \_\_\_\_\_ ☒ PCB'S ND<2 ☐ Total Solvents \_\_\_\_\_

☒ Flash Point >200 F ☒ BTU PHE=ND ☒ pH 7.9 ☐ RGN \_\_\_\_\_

Methylene Chloride \_\_\_\_\_ Carbon Tetrachloride \_\_\_\_\_

Freon \_\_\_\_\_ 1,1,1-Trichloroethane FE:11

Trichloroethylene CR:1.13 Tetrachloroethylene AG:1.30

Oil \_\_\_\_\_ Water 88 % Sediment 12 % \_\_\_\_\_

Lead 4.10 Copper 2.82 Nickel .3 Zinc 1.7

#### Transporter Invoice

W/O No.	Mail Site ID	Appr ID	Manifest	Quantity	UOM	Price	Ext Amt
00680062	253001	3508ILSSWSD	002561299JK	1360.00			
	253001	253 OSBORNE RD ASSOCIATES LLC 253 OSBORNE ROAD					
	EPA Waste IDs: F002 D039						

Manifest Total 1360.00 GALS

WASHOT 1.00 EACH

Manifest Total 0.00

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY 0001492000	2. Page 1 of 1	3. Emergency Response Phone (800) 424-4444	4. Manifest Tracking Number 002561299 JJK		
5. Generator's Name and Mailing Address Precision Industrial Mold Association, LLC 18 Gay Street Generator's Phone: 518-454-4007 6. Transporter 1 Company Name Precision Industrial Mold, Inc. (518) 342-4000		Generator's Site Address (if different than mailing address) 263 Osborne Road Londonville, NY 12044 U.S. EPA ID Number NY 0001031014					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address United Oil Recovery 180 Grassy Ave (203) 238-5751 Middletown CT 06451 Facility's Phone:		U.S. EPA ID Number CTD0021210089					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
8	1. Hazardous Waste, liquid, nos 9, H30002, P001 (Trichloroethylene)	001	TT	130	0	F002 B 0009	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information DO NOT MIX WITH FUEL OIL (DO NOT charge & water) 750014 15000104							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name W. Thomas J. ...		Signature [Signature]		Month Day Year 12 3 00			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name W. Thomas J. ...		Signature [Signature]		Month Day Year 12 3 00			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature		Month Day Year			

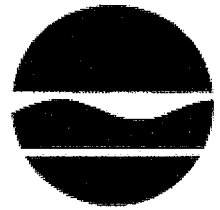


## **Appendix 9**

### **December 2007 Soil Removal Waste Manifests**

## **NYSDEC Approval for Soil Disposal**

**New York State Department of Environmental Conservation**  
**Division of Solid & Hazardous Materials**  
**Bureau of Hazardous Waste and Radiation Management**  
625 Broadway, Albany, NY 12233-7258  
**Phone:** (518) 402-8594 • **FAX:** (518) 402-8646  
**Website:** [www.dec.ny.gov](http://www.dec.ny.gov)



Alexander B. Grannis  
Commissioner

November 14, 2007

Mr. William Miller, III  
Director of Environmental Services  
Continental Placer Inc.  
CPI Environmental Services, Inc.  
26 Computer Drive West  
Albany, NY 12205

RECEIVED  
NOV 21 2007

Re: Soil Analytical Results for 253 Osborne Road, Loudonville, NY  
NYSDEC Spill #0305984

Dear Mr. Miller:

We have completed our review of the Report on Finding of Tetrachloroethene Delineation Spill #0702543 submitted on October 15, 2007 and the addendum to Report on Finding of Tetrachloroethene Delineation Spill #0702543 submitted on November 5, 2007 request for a "contained-in" determination for soil contaminated by past dry cleaning operations at the referenced project site.

Concentration for tetrachloroethene (perc) were below the soil "contained-in" action level and the Land Disposal Restriction concentration. Therefore, soils excavated in the vicinity of BV HA-1 do not have to be managed as hazardous waste when transported to ESMI's Fort Edward Facility for thermal treatment.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-8594.

Sincerely,

Henry Wilkie  
Environmental Engineer 1  
Hazardous Waste Engineering Eastern Section

ecc: C. O'Neill, Region 4

**Soil Transportation Manifests  
and  
Treatment Facility Receipts**

ESMI OF NEW YORK  
304 TOWPATH ROAD  
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2032660  
DATE : 12/3/2007

MAX. ACCEPTABLE SOIL: 300.00

CUSTOMER: CPI10  
CPI ENVIRONMENTAL  
25 COMPUTER DRIVE WEST

ALBANY, NY 12205

JOB NO : 8122  
OSBORNE RD ASSOCIATES  
253 OSBORNE RD  
MENANDS NY  
RUNNING TONNAGE: 34.32

TRUCKER:  
CH-76 CEDAR HILL

GROSS : 106320 SCALE 1 IN 10:18:50AM  
TARE : 37680 STORED OUT

SV03 04 USED PETROLEUM SOLVENT

NET : 68640 LB  
34.320

WEIGH MASTER: *Kim Matteson* #530022

DRIVER: *Bill Est*

REMARKS:

MATERIAL	\$
DELIVERY	\$
MISC	\$
TAX	\$
TOTAL	\$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill  
Selkirk, New York 12158  
Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name 253 Osborne Road Associates LLC Shipping Location \_\_\_\_\_  
Address 16 Sage Estates Address ~~SELENE~~ 253 OSBORNE  
MENANDS, NY RODENJULIUM  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Approval  
Number

Description of Material

Non-Regulated Petroleum  
Contaminated Soil

Non DOT/RCRA Regulated

Codes

106320

GROSS

37680

TARE

68640

NET

34.32

TONNAGE

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

William J. Miller, Jr.  
Generator Authorized Agent Name

[Signature]  
Signature

12/3/07  
Shipment Date

TRANSPORTER

Transporter Name CEDAR HILL TRUCKING  
Address RIVER RD  
SELKIRK, NY

Driver Name (Print) BILL EMON  
Vehicle License No./State 1041 B 9 NY  
Truck Number CA76

I hereby certify that the above named material was picked up at the generator site listed above.

Bill Emon 12/3/07  
Driver Signature Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Bill Emon 12/3/07  
Driver Signature Delivery Date

DESTINATION

Site Name ESM1 OF NY Phone No. 518-247-5500  
Address 70W PATH RD FT EDWARD NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature]  
Name of Authorized Agent

[Signature]  
Signature

12/3/07  
Receipt Date

ESMI OF NEW YORK  
304 TOWPATH ROAD  
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2032661  
DATE : 12/3/2007

MAX. ACCEPTABLE SOIL: 300.00

CUSTOMER: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

JOB NO : 8122  
OSBORNE RD ASSOCIATES  
253 OSBORNE RD  
MENANDS NY  
RUNNING TONNAGE: 71.61

TRUCKER:  
CH-60 CEDAR HILL TRUCKING

GROSS : 109300 SCALE 1 IN 10:35:23AM  
TARE : 34720 STORED OUT

SV03 04 USED-PETROLEUM SOLVENT

NET : 74580 LB  
37.290

WEIGH MASTER: JIM MATTHESON #530022

DRIVER:

REMARKS:

MATERIAL \$  
DELIVERY \$  
MISC \$  
TAX \$

TOTAL \$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill  
Selkirk, New York 12158  
Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name 253 Ozburn Associates Shipping Location Same  
Address 253 Ozburne Rd Address \_\_\_\_\_  
Colone NY  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Approval  
Number

Description of Material

Non-Regulated Petroleum  
Contaminated Soil

Non DOT/RCRA Regulated

Codes

109300

GROSS

34720

TARE

74580

NET

37.29

TONNAGE

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

William J. Miller, III [Signature] 12/3/07  
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name see above Driver Name (Print) Josh Brate  
Address \_\_\_\_\_ Vehicle License No./State 10528B  
Truck Number #60

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 12/3/07 [Signature] 12/3/07  
Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name ESMTI OK NY Phone No. (518) 747-5500  
Address 304 Townpath Lane, Ft. Edward NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature] 12/3/07  
Name of Authorized Agent Signature Receipt Date



ESMI OF NEW YORK  
304 TOWPATH ROAD  
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2032665  
DATE : 12/3/2007

MAX. ACCEPTABLE SOIL: 300.00

CUSTOMER: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST

ALBANY, NY 12205

JOB NO : 8122  
OSBORNE RD ASSOCIATES  
253 OSBORNE RD  
MENANDS, NY  
RUNNING TONNAGE: 148.01

TRUCKER:  
CH-76 CEDAR HILL

GROSS : 112320 SCALE 1 IN 1:06:35PM  
TARE : 37680 STORED OUT

SV03 04 USED PETROLEUM SOLVENT

NET : 74640 LB  
37.320

WEIGH MASTER: KIM MATTESON #530022

DRIVER:

*Bill Est*

REMARKS:

MATERIAL \$  
DELIVERY \$  
MISC \$  
TAX \$

TOTAL \$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill  
Selkirk, New York 12158  
Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name 253 OSBORN RD ASSOCIATES Shipping Location \_\_\_\_\_  
Address 253 OSBORN RD Address 253 OSBORN RD  
ROODENUCKENY  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Approval  
Number

Description of Material

Non-Regulated Petroleum  
Contaminated Soil

Non DOT/RCRA Regulated

Codes

112320

GROSS

37680

TARE

74640

NET

37.32

TONNAGE

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

William J. Miller, III WJ Miller 12/3/07  
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name CEDAR HILL TRUCKING Driver Name (Print) BILL EATON  
Address RIVER RD Vehicle License No./State 1041 B9 NY  
SELKIRK NY Truck Number CH76

I hereby certify that the above named material was picked up at the generator site listed above.

Bill Eaton \_\_\_\_\_  
Driver Signature Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Bill Eaton 12/3/07  
Driver Signature Delivery Date

DESTINATION

Site Name FSM1 OF NY Phone No. 518.747.5500  
Address TOW PATH RD VT EDWARD, NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Shatter 12/3/07  
Name of Authorized Agent Signature Receipt Date

ESMI OF NEW YORK  
304 TOWPATH ROAD  
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2032664  
DATE : 12/3/2007

MAX. ACCEPTABLE SOIL: 300.00

CUSTOMER: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

JOB No : 8122  
OSBORNE RD ASSOCIATES  
253 OSBORNE RD  
MENANDS NY  
RUNNING TONNAGE: 110.69

TRUCKER:  
CH-97 CEDAR HILL

GROSS : 111800 SCALE 1 IN 12:53:49PM  
TARE : 33640 STORED OUT

SV03 04 USED PETROLEUM SOLVENT

NET : 78160 LB  
39.080

WEIGH MASTER: KIM MATTESON #530022

DRIVER:

MATERIAL \$  
DELIVERY \$  
MISC \$  
TAX \$

REMARKS:

TOTAL \$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill  
Selkirk, New York 12158  
Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name 253 Osborne Rd Assoc. LLC Shipping Location \_\_\_\_\_  
Address 253 Osborne Road Address Same  
Londonville, NY  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Approval Number	Description of Material	Codes	
	Non-Regulated Petroleum Contaminated Soil  Non DOT/RCRA Regulated	<u>111800</u>	GROSS
		<u>33640</u>	TARE
		<u>178160</u>	NET
		<u>39.08</u>	TONNAGE

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

William J. Miller, Jr. [Signature] 12/3/07  
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name Cedar Hill Trucking Driver Name (Print) Rich Carl  
Address Selkirk NY Vehicle License No./State AD80326  
Truck Number CH-97

I hereby certify that the above named material was picked up at the generator site listed above.

[Signature] 12/3/07  
Driver Signature Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 12/3/07  
Driver Signature Delivery Date

DESTINATION

Site Name ESMI Phone No. 518.747-5500  
Address Fort Edward NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

[Signature] 12/3/07  
Name of Authorized Agent Signature Receipt Date

ESMI OF NEW YORK  
304 TOWPATH ROAD  
FORT EDWARD, NEW YORK 12828

(518)747-5500

TICKET NO : 2032666  
DATE : 12/3/2007

MAX. ACCEPTABLE SOIL: 300.00

CUSTOMER: CPI10  
CPI ENVIRONMENTAL  
26 COMPUTER DRIVE WEST  
ALBANY, NY 12205

JOB NO : 8122  
OSBORNE RD ASSOCIATES  
253 OSBORNE RD  
MENANDS NY  
RUNNING TONNAGE: 190.96

TRUCKER:  
CH-60 CEDAR HILL TRUCKING

GROSS : 120620 SCALE 1 IN 1:26:21PM  
TARE : 34720 STORED OUT

SV03 04 USED PETROLEUM SOLVENT

NET : 85900 LB  
42.950

WEIGH MASTER: KIM MATTESON #530022

DRIVER:

REMARKS:

MATERIAL \$  
DELIVERY \$  
MISC \$  
TAX \$

TOTAL \$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill  
Selkirk, New York 12158  
Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name 253 Osborne KP Associates Shipping Location JAME  
Address 253 Osborne RD Address \_\_\_\_\_  
Colonie NY  
Phone No. \_\_\_\_\_ Phone No. \_\_\_\_\_

Approval  
Number

Description of Material

Non-Regulated Petroleum  
Contaminated Soil

Non DOT/RCRA Regulated

Codes

120620

GROSS

31720

TARE

85900

NET

4295

TONNAGE

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

William T. Miller, III  
Generator Authorized Agent Name

Signature

12/3/07  
Shipment Date

TRANSPORTER

Transporter Name see above

Driver Name (Print) Josh Brate

Address \_\_\_\_\_

Vehicle License No./State 10528B

Truck Number #60

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature

12/3/07  
Shipment Date

Driver Signature

12/3/07  
Delivery Date

DESTINATION

Site Name ESMI OF NY Phone No. (518) 748-5300

Address 304 Tappan Lane, Ft. Edward NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent

Signature

12/3/07  
Receipt Date

## **Appendix 10**

### **469-471 Albany Shaker Road Boring Logs, and Soil and Groundwater Analytical Result Summaries**

**Table 1**  
**Well Construction Details and Groundwater Elevations**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

Well ID	Measuring Point Elevation (feet amsl)	Flush-Mount Cover Elevation (feet amsl)	Depth to Bedrock (feet)	Elevation of Bedrock (feet)	Well Depth (feet)	Screen Interval (feet)	Depth to Water 9/27/07 (feet)	Groundwater Elevation 9/27/07	Depth to Water 10/5/07 (feet)	Groundwater Elevation 10/5/07	Depth to Water 3/11/08 (feet)	Groundwater Elevation 10/11/07
<b>253 Osborne Road</b>												
OS-1	502.18	502.60	12.7	489.9	12.7	7.7 - 12.7	9.95	492.23	9.99	492.19	7.91	494.27
OS-2	505.42	506.07	14.0	492.1	14.0	10.0 - 15.0	10.13	495.29	10.22	495.20	8.67	496.75
OS-3	507.30	507.70	19.0	488.7	19.0	7.0 - 17.0	6.42	500.88	6.47	500.83	5.00	502.30
OS-4	501.08	501.54	12.4	489.1	12.4	7.4 - 12.4	5.99	495.09	6.07	495.01	2.57	498.51
OS-5	505.59	506.08	12.5	493.6	12.5	7.5 - 12.5	6.41	499.18	6.59	499.00	4.50	501.09
OS-6	507.11	507.59	14.0	493.6	14.0	9.0 - 14.0	5.09	502.02	5.25	501.86	3.57	503.54
OS-7	507.49	507.94	12.5	495.4	12.5	7.5 - 12.5	6.21	501.28	6.19	501.30	4.56	502.93
OS-8	506.90	507.08	18.3	488.8	18.3	8.0 - 18.0	12.65	494.25	12.74	494.16	10.18	496.72
<b>469-471 Albany-Shaker Road</b>												
OS-9	501.40	501.71	19.0	482.7	20.0	10.0 - 20.0					9.55	491.85
OS-10	499.87	500.26	14.6	485.7	14.5	9.5 - 14.5					7.22	492.65
OS-11	499.77	499.99	26.8	473.2	25.0	20.0 - 25.0					22.57	477.20
OS-12	500.15	500.52	~39	~461.5	35.0	25.0 - 35.0					26.05	474.10

- 1) All wells constructed with 2-inch diameter, PVC well screen and riser pipe, and capped with flush-mount curb boxes.
- 2) Measuring point elevation is the top of PVC riser pipe.
- 3) 253 Osborne Road wells installed September 24 and 25, 2007; 469-471 Albany Shaker Road wells installed February 21, 2008.



**Table 2**  
**Groundwater Analytical Result Summary**  
**253 Osborne Road**  
**NYSDEC Spill # 07-02543**

Sample ID	PCE	TCE	Vinyl Chloride	Acetone	Methylene Chloride	Sample Date
<b>253 Osborne Road</b>						
OS-1	430	ND	ND	ND	ND	9/27/2007
OS-1	410	ND	ND	ND	ND	10/5/2007
OS-2	ND	ND	22	ND	ND	9/27/2007
OS-3	ND	ND	ND	ND	ND	9/27/2007
OS-4	ND	ND	ND	ND	ND	9/27/2007
OS-5	ND	ND	ND	ND	ND	9/27/2007
OS-6	ND	ND	ND	ND	ND	9/27/2007
OS-7	42	ND	ND	ND	ND	9/27/2007
OS-8	67	ND	ND	ND	ND	9/27/2007
<b>469-471 Albany-Shaker Road</b>						
OS-9	22	ND	ND	17B	ND	3/3/2008
OS-10	770	120	ND	60	6.4	3/3/2008
OS-11	13	ND	ND	12B	ND	3/3/2008
OS-12	35	ND	ND	13B	ND	3/3/2008

All concentrations are in micrograms per liter (ug/l) or parts per billion (ppb).

PCE = tetrachloroethene

ND = non-detect at laboratory practical quantitation limit (PQL), which is 5 ug/l for PCE and 10 ug/l for vinyl chloride; except for OS-1 where the PQL was 25 ug/l for PCE and 50 for vinyl chloride due to a 5-fold dilution.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

## **469-471 Albany-Shaker Road Geologic Logs**

---

## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205						<b>BORING NO.: OS-9</b>	
<b>PROJECT:</b> 469-471 Albany Shaker Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.: 501.40	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.: 501.71	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			
<b>GROUNDWATER DEPTH:</b> 10.0 feet				Diameter			
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			
<b>DATE OF MEASUREMENT:</b> March 3, 2008				Fall			
						Datum: Grade	
						Start Date: 02/21/08	
						End Date: 02/21/08	
						Driller: Rich Comfort	
						Inspector: Bill Miller	


  

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
2					Brown, orange fine sand	
4						
6	S-1	3		0	0 - 1.3 feet - Brown, orange fine to medium sand, trace silt	Rec = 1.3 feet
		3				Dry
		3				
		5				
8						
10						
	S-2	2		0	0 - 1.3 feet - Brown, orange fine to medium sand, trace silt	Rec = 1.3 feet
		2				Wet
		3				Collected Sample
		4				for lab analysis
12						

## TEST BORING LOG

CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						<b>BORING NO.:</b> OS-9
PROJECT: 469-471 Albany Shaker Road						Sheet <u>2</u> of <u>2</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12					Brown, orange fine ot medium sand	cuttings
						Wet
14						
16	S-3	9		0	0 - 0.6 Brown, orange fine sand and silt	Rec = 0.8 feet
		9			0.6 - 0.8 feet - Brown, gray fine sand and	Wet
		10			silt, some coarse gravel, some clay	
		10				
18					Bedrock at 19.0 feet	
					Auger to 20 feet	
20					EOB at 20 feet	
					Construct 2-inch PVC monitoring well	
					Screen 10 to 20 feet	
22					3 bags of filter sand to 8 feet	
					2 feet bentonite chips above filter sand to 6 feet	
					Flush-mount curb box	
24						
26						
28						
30						


## TEST BORING LOG

 <b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205						<b>BORING NO.:</b> OS-10	
<b>PROJECT:</b> 469-471 Albany Shaker Road						Sheet <u>1</u> of <u>2</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.: 499.87	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.: 500.26	
<b>DRILLING METHOD:</b> Hollow Stem Auger					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Truck Mounted CME				Type			Datum: Grade
<b>GROUNDWATER DEPTH:</b> 8.20 feet				Diameter			Start Date: 02/21/08
<b>MEASURING POINT:</b> Top of PVC Casing				Weight			End Date: 02/21/08
<b>DATE OF MEASUREMENT:</b> March 3, 2008				Fall			Driller: Rich Comfort
							Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
2					Brown, orange fine sand	
						Cuttings
4						
6	S-1	5		0	0 - 0.9 feet - Brown, orange fine sand, some silt	Rec = 0.9 feet
		10				Dry
		3				
		3				
8						
10						
	S-2	4		0	0 - 1.3 feet - Brown, orange fine to medium to coarse sand, medium to coarse gravel, some silt	Rec = 1.3 feet
		6				Moist
		10				Sample collected
		8				for lab analysis
12						

TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-10
PROJECT: 469-471 Albany Shaker Road						Sheet <u>2</u> of <u>2</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12						
14		50/0.1			0 - 0.1 feet - Gray medium to coarse gravel, some fine to medium sand (shale chips)	Rec = 0.1 feet Dry
16					Bedrock at 14.6 feet	
					EOB at 14.6 feet	
18						
20						
					Construct 2-inch PVC monitoring well	
					Screen 9.5 to 14.5 feet	
22					2 bags of filter sand to 7.5 feet	
					2 feet bentonite chips above filter sand to 5.5 feet	
					Flush-mount curb box	
24						
26						
28						
30						


## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205						<b>BORING NO.: OS-11</b>	
PROJECT: 469-471 Albany Shaker Road						Sheet <u>1</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.: 499.77	
PURPOSE: Environmental Assessment						Ground Elev.: 499.99	
DRILLING METHOD: Hollow Stem Auger					Sample	Core	Casing
DRILL RIG TYPE: Truck Mounted CME				Type			Datum: Grade
GROUNDWATER DEPTH: 22.90 feet				Diameter			Start Date: 02/21/08
MEASURING POINT: Top of PVC Casing				Weight			End Date: 02/21/08
DATE OF MEASUREMENT: March 3, 2008				Fall			Driller: Rich Comfort
							Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
2					Brown, orange fine sand	Cuttings
4						
6	S-1	2		0	0 - 0.3 feet - Dark brown fine sand and silt (topsoil) 0.3 - 1.7 feet - Brown, orange fine to sand and silt	Rec = 1.7 feet
		3				Dry
		3				
		4				
8						
10						
	S-2	2		0	0 - 1.5 feet - Brown, orange fine sand, some silt	Rec = 1.5 feet
		2				Dry to moist
		3				
		4				
12						

## TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: OS-11
PROJECT: 469-471 Albany Shaker Road						Sheet <u>2</u> of <u>2</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12						
14						
16	S-3	2		0	0 - 1.4 feet - Brown, orange fine sand, trace silt	Rec = 1.7 feet
		2				Dry
		3			1.4 - 1.7 feet - Brown, orange fine to sand, trace silt	
		3				
18						
20						
22	S-4	50		0	0 - 0.6 feet - Brown, orange fine sand and silt (wet)	Rec = 1.1 feet
		22				Dry to Wet
		8			0.6 - 1.1 feet - Gray fine to medium to coarse gravel, fine to medium sand (shale chips)	
		6				
24						
26	S-5				0 - 0.8 feet - Gray fine to medium to coarse sand, coarse gravel, and silt (till)	Rec = 1.1 feet
					0.8 - 1.1 feet - Gray shale chips (dry)	Wet to dry
					Bedrock at 26.8 feet	Sample collected for lab analysis
					EOB at 26.8 feet	
28					Construct 2-inch PVC monitoring well	
					Screen 20 to 25 feet	
					2 bags of filter sand to 18 feet	
					2 feet bentonite chips above filter sand to 16 feet	
30					Flush-mount curb box	




## TEST BORING LOG

<b>CPI ENVIRONMENTAL SERVICES, INC.</b> 11 Winners Circle, Albany, New York 12205					<b>BORING NO.: OS-12</b>	
PROJECT: 469-471 Albany Shaker Road					Sheet <u>1</u> of <u>3</u>	
CLIENT: 253 Osborne Road Associates, LLC					Job No.: E709-01-07-953	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.					Meas. Pt. Elev. 500.15	
PURPOSE: Environmental Assessment					Ground Elev.: 500.52	
DRILLING METHOD: Hollow Stem Auger			Sample	Core	Casing	Datum: Grade
DRILL RIG TYPE: Truck Mounted CME		Type				Start Date: 02/21/08
GROUNDWATER DEPTH: 26.33 feet		Diameter				End Date: 02/21/08
MEASURING POINT: Top of PVC Casing		Weight				Driller: Rich Comfort
DATE OF MEASUREMENT: March 3, 2008		Fall				Inspector: Bill Miller


  

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
2					Brown, orange fine sand	Cuttings
4						
6	S-1	3		0	0 - 0.3 feet - Dark brown fine sand, trace medium sand	Rec = 1.8 feet
		5			0.3 - 1.8 feet - Brown fine sand, trace silt	Dry
		5				
		5				
8						
10						
	S-2	6		0	0 - 1.8 feet - Brown, orange fine to medium trace silt	Rec = 1.8 feet
		6				Dry
		5				
		6				
12						

## TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						<b>BORING NO.: OS-12</b>
<b>PROJECT: 469-471 Albany Shaker Road</b>						Sheet <u>2</u> of <u>3</u>
<b>CLIENT: 253 Osborne Road Associates, LLC</b>						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12						
14						
16	S-3	4		0	0 - 2.0 feet - Gray, brown fine to medium sand, trace silt	Rec = 2.0 feet
		7				Dry
		8				
		8				
18						
20						
22	S-4	6		0	0 - 1.0 feet - Gray, brown fine to medium sand, trace silt	Rec = 1.0 feet
		9				Dry to moist
		8				
		10				
24						
26	S-5	3		0	0 - 1.3 feet - Gray, brown fine to medium sand, trace silt	Rec = 1.3 feet
		3				Dry to moist
		3				Collected sample
		3				for lab analysis
28						
30						

## TEST BORING LOG

 CPI ENVIRONMENTAL SERVICES, INC II Winners Circle, Albany, New York 12205 (518) 458-9203						<b>BORING NO.: OS-12</b>
<b>PROJECT: 469-471 Albany Shaker Road</b>						Sheet _3_ of _3_
<b>CLIENT: 253 Osborne Road Associates, LLC</b>						Job No.: E709-01-07-953
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
30	S-6	1		0	0 - 0.4 feet - Gray, orange fine sand, trace silt	Rec = 1.4 feet
		2				Wet
		4				
32		7				
34						
	S-7	15		0	0 - 0.2 feet - Gray, orange fine sand and silt	Rec = 1.0
36		21			0.2 - 1.0 feet - Hard gray fine sand and silt, some coarse gravel (till)	Wet to moist
		26				
		31				
					EOB at 37 feet	
38						
40					Construct 2-inch PVC monitoring well	
					Screen 25 to 35 feet	
					2.5 bags of filter sand to 23 feet	
					2 feet bentonite chips above filter sand to 21 feet	
42					Flush-mount curb box	
44						
46						

## **Appendix 11**

### **March 2008 469-471 Albany Shaker Road Soil Vapor Investigation Report**

**Alpine Environmental Services, Inc. Soil Vapor and  
Ambient Air Investigation Report**



**Vapor Intrusion Investigation Report**  
**469-471 Albany Shaker Road, Loudonville, New York**  
**March 31, 2008**

## **Background**

The Subject Property, 469-471 Albany Shaker Road, Loudonville, New York, contains one structure on approximately 2 acres of land. A portion of the adjacent property (253 Osborne Road) was operated as a dry cleaning facility in the past and chlorinated solvent contamination has been identified in the soils and groundwater at that site. As part of the spill investigation at the adjacent property, The New York State Department of Environmental Conservation and The New York State Department of Health requested a vapor intrusion investigation that included soil vapor samples along the southern Subject Property line. The soil vapors were found to have chlorinated solvents present.

This investigation is intended to address the potential for occupant exposure to chlorinated solvent vapors that have migrated to the Subject Property apparently from the adjacent property.

## **Limitations**

Sample #02, Kitchen Area of the Chinese Restaurant, Indoor Air Sample, was discovered at the laboratory to have a leaking valve. The sample could not be analyzed. The Indoor air quality sample from the Dining Area (Sample #04) will be used in the decision matrix for both sub slab vapor samples collected within the Chinese Restaurant.

## **Sample Locations**

The Vapor Intrusion Investigation includes three types of samples:

1. Sub Slab Vapor Samples
2. Indoor Air Quality Samples
3. Outside the Building Reference Sample.

Sample locations include:

- One sub slab sample (#1) in the kitchen area of the Chinese Restaurant along with a corresponding indoor air sample (#2).
- One sub slab sample (#3) in the dining area of the Chinese Restaurant along with a corresponding indoor air sample (#4).
- One sub slab sample (#5) in the former chiropractor office (southern most space) along with a corresponding indoor air sample (#6).
- One sub slab sample (#7) in the full basement section of the Subject Property, currently storage space for Lanie's Restaurant, along with a corresponding indoor air sample (#8).
- One outside the building sample (#9) at the northern end of the property as an ambient reference.

Samples were collected over a time integral of approximately eight hours using timed flow controllers. Samples were analyzed via EPA Method TO-15.

### Results of Testing

The results of the testing are summarized in the following tables.

#### Indoor Air and Ambient Reference Results

Location	TCE Result (mcg/m <sup>3</sup> )	PCE Result (mcg/m <sup>3</sup> )
#02; Inside Structure, Kitchen Area of Chinese Rest., Indoor Air	Not Analyzed	Not Analyzed
#04; Inside Structure, Dining Area of Chinese Rest., Indoor Air	N/D < 5.4	N/D < 6.8
#06; Inside Structure, Former Chiropractor Space, Indoor Air	N/D < 5.4	N/D < 6.8
#08 ;Inside Structure, Northwest, Basement, Indoor Air	N/D < 5.4	N/D < 6.8
#09 Outside Structure, Northeast, Ambient Reference	N/D < 5.4	N/D < 6.8

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

trichloroethene - (TCE)

tetrachloroethene - (PCE)

N/D < - None Detected at or above the given method detection limit.

#### Sub Slab Soil Vapor Results

Location	TCE Result (mcg/m <sup>3</sup> )	PCE Result (mcg/m <sup>3</sup> )
#01; Inside Structure, Kitchen Area of Chinese Rest., Sub Slab	N/D < 11	N/D < 14
#03; Inside Structure, Dining Area of Chinese Rest., Sub Slab	N/D < 67	810
#05; Inside Structure, Former Chiropractor Space, Sub Slab	N/D < 130	910
#07 ;Inside Structure, Northwest, Basement Area, Sub Slab	N/D < 67	320

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

trichloroethene - (TCE)

tetrachloroethene - (PCE)

N/D < - None Detected at or above the given method detection limit.

Interpretation of results involves the use of the Decision Matrix found in the New York State Department of Health document, Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The Matrix compares indoor or ambient air levels of the contaminants to the sub slab air results to determine the next course of action.

Soil Vapor/Indoor Air Decision Matrix 1 could not be used due to interference from detected levels of PCE in the sub slab vapor samples. The dilution during laboratory analysis required to target the detected PCE caused the detection limit for TCE to be elevated above the highest indoor air level on the Decision Matrix. None of the indoor air or sub slab vapor samples detected TCE above detection limits.

**Soil Vapor / Indoor Decision Matrix 1  
For trichloroethene (TCE)**

Sub Slab Vapor or Soil Vapor Concentration of Compound (mcg/m <sup>3</sup> )	Indoor Air Concentration of Compound (mcg/m <sup>3</sup> )			
	< 0.25	0.25 to < 1.0	1.0 to < 5.0	5.0 and above
< 5	No Further Action	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.
5 to < 50	No Further Action	Monitor	Monitor	Mitigate
50 to < 250	Monitor	Monitor/ Mitigate	Mitigate	Mitigate
250 and above	Mitigate	Mitigate	Mitigate	Mitigate

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.



Results for tetrachloroethene (PCE) were useful in the Soil Vapor/Indoor Air Decision Matrix 2 and are included in the following table:

**Soil Vapor / Indoor Decision Matrix 2, For tetrachloroethene (PCE)**

Sub Slab Vapor or Soil Vapor Concentration of Compound (mcg/m <sup>3</sup> )	Indoor Air/Ambient Air Concentration of Compound (mcg/m <sup>3</sup> )			
	< 3 (None Detected < 6.8 included)	3 to 30	30 to < 100	100 and above
< 100	No Further Action  <u>*Sample #1</u>	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.	Take Reasonable and Practical actions to identify source and reduce exposures.
100 to < 1,000	Monitor  <u>Sample #3</u> <u>Sample #5</u> <u>Sample #7</u>	Monitor/ Mitigate	Mitigate	Mitigate
1,000 and above	Mitigate	Mitigate	Mitigate	Mitigate

mcg/m<sup>3</sup> - micrograms of contaminant per cubic meter of air.

\*Soil Vapor Sample with Sample #4 for Indoor Air Comparison

Result of None Detected < 6.8 mcg/m<sup>3</sup> were listed in the < 3 mcg/m<sup>3</sup> column.

## Conclusion & Recommendation

TCE was not detected in any of the indoor air or sub slab samples. PCE was not detected in any of the indoor air samples. PCE was detected in three of the four sub slab samples between 320 and 910 mcg/m<sup>3</sup>. Sub slab soil vapor results showed the highest PCE contaminant levels in the southern end of the Subject Property Structure.

When compared to the New York State Department of Health document Guidance for Evaluating Soil Vapor Intrusion in the State of New York, decision matrix #2, results indicated "monitor" with the exception of sample #1, the kitchen area of the Chinese Restaurant, which produced a "no further action" result.

"Monitoring" is defined as, sampling of sub-slab vapor, basement air, lowest occupied living space air, and outdoor air, as is appropriate to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be appropriate to determine whether existing building conditions (e.g., positive pressure HVAC systems) are maintaining the desired mitigation endpoint and to determine whether changes are appropriate.

Based on the results of the vapor intrusion investigation, Alpine Environmental Services, Inc., has determined that several options exist to address the vapor intrusion potential at the Subject Property. The options are as follows:

- Installation of a sub slab depressurization system throughout the entire Subject Structure provided the NYS DOH and DEC waives any further vapor intrusion testing within the Subject Structure; or
- Continued monitoring of sub slab vapors and indoor air quality; or
- Some combination of the previous two courses of action that would allow a phased approach to reduce the size of the sub slab depressurization system (i.e. sub slab sampling in Lanie's Restaurant that would allow the restaurant to be excluded from a sub slab depressurization system, etc.).

If you require any further information or discussion, feel free to contact me (518) 453-0146 ext. 303.

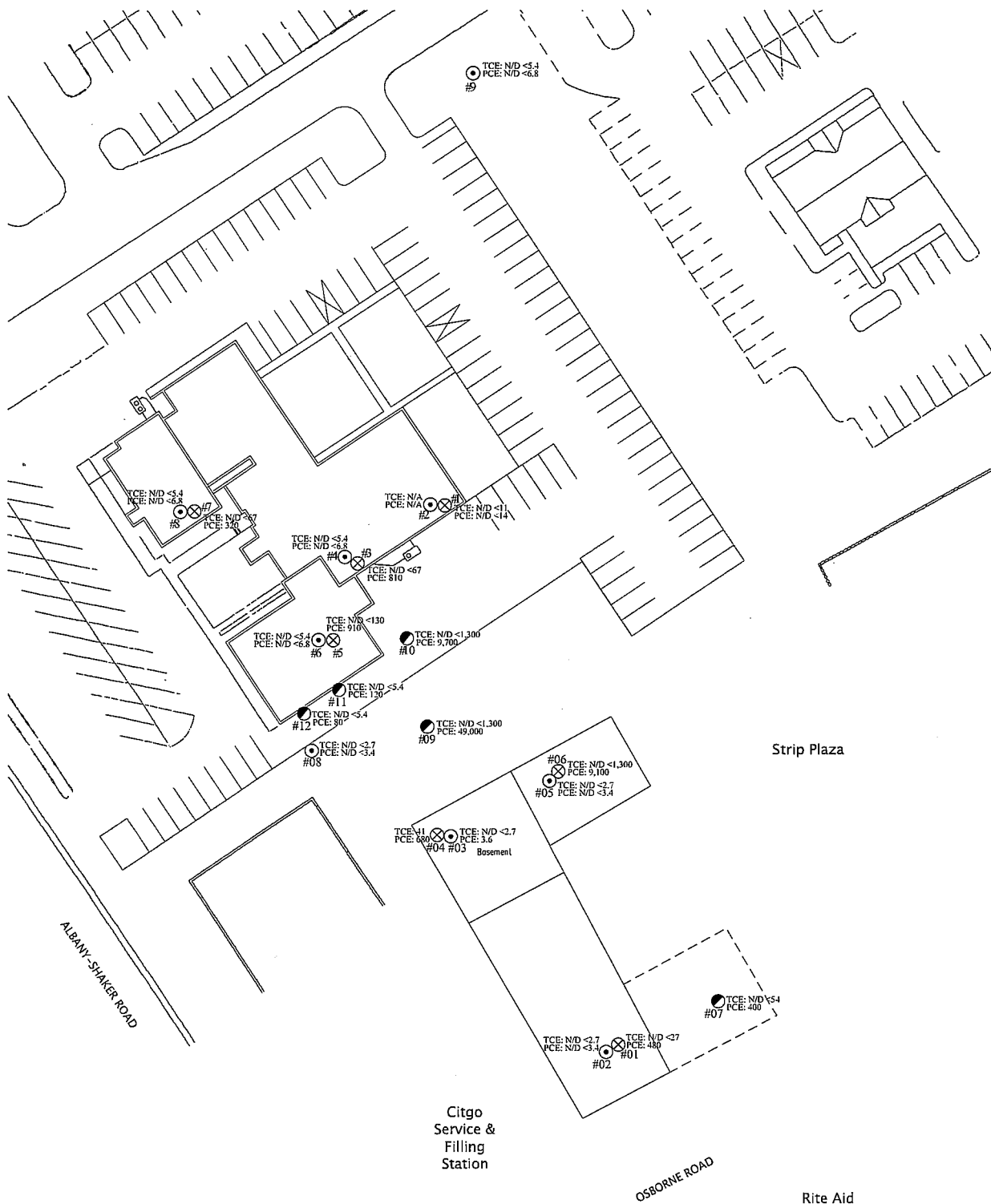
Sincerely,  
**ALPINE ENVIRONMENTAL SERVICES, INC.**

Mark Schnitzer, P.E.  
Environmental Engineer

email: [MarkS@Alpineenv.com](mailto:MarkS@Alpineenv.com)  
ph (518) 453-0146  
fax (518) 453-0175

Included:

Drawing of Vapor Intrusion Investigation Test locations



LEGEND	
	Sub-slab vapor sample
	Soil vapor sample
	Air sample (indoor or ambient)
	N/A means Sample was not analyzed
	N/D means None Detected
	Results in micrograms per cubic meter of air

 <small>North Scale: Not to Scale</small>	<b>Alpine Environmental Services, Inc.</b>  Vapor Intrusion Investigation Sample Locations 469-471 Albany-Shaker Rd and 253 Osborne Rd Loudonville, New York
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## **Appendix 12**

### **September 2010 Post-Demolition Soil Boring Logs, Analytical Result Summaries, and Data Validation Report**

**Table 1**  
**September 2010 Soil Analytical Results**  
**253 Osborne Road**  
**NYSDEC HW#401056**

VOC	Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	Soil Sample ID								
		PDG-1S/5-7'	PDG-1D/9-10'	PDG-2S/5-7'	PDG-3S/2-3'	PDG-3D/3-4.5'	PDG-4S/5-7'	PDG-4D/8-10'	PDG-5S/4-5'	PDG-5D/9-11'
Tetrachloroethene	1,300	10.0	ND	ND	8.2	20.0	ND	ND	<b>8,300 W1</b>	710 W1
Trichloroethene	470	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene		ND	4.9 J	ND	ND	ND	ND	ND	ND	ND
cis-1,2- Dichloroethene	250	ND	4.9 J	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	50	4.5 J	2.8 J	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	8.2 J	7.8 J	ND	ND	ND	ND
Isopropylbenzene		ND	ND	ND	14.0	11.0	ND	ND	ND	ND
Methylcyclohexane		ND	ND	ND	7.6	6.2	ND	ND	ND	ND

VOC	Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	Soil Sample ID									
		PDG-6S/2-4'	PDG-6D/5-7'	PDG-7S/2-4'	PDG-7D/5-7'	PDG-8S/6-7'	PDG-8D/13-15'	PDG-9S/6-8'	PDG-9D/13-15'	TP-PD1/2-4'	TP-PD2/7-9'
Tetrachloroethene	1,300	14.0	5.0 J	11	3.7 J	61	820 W1	3.3 J	14	930	90
Trichloroethene	470	ND	ND	ND	ND	ND	36	ND	ND	2.5 J	9.6
Total 1,2-Dichloroethene		ND	ND	ND	ND	ND	9.3	ND	ND	ND	ND
cis-1,2- Dichloroethene	250	ND	ND	ND	ND	ND	9.3	ND	2.6 J	ND	ND
Methylene Chloride	50	3.0 J	4.0 J	ND	ND	ND	ND	4.4 J	ND	17	10
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All concentrations are in micrograms per kilogram (ug/kg) or parts per billion (ppb).

Bolded values are above the Part 375 unrestricted use soil cleanup objectives.

ND = non-detect at the method detection limit (MDL), which varies per compound.

J = laboratory data qualifier indicating analyte detected at level less than reporting limit (RL) and greater than or equal to the method detection limit (MDL)..

W1 = laboratory data qualifier indicating sample was prepared and analyzed utilizing a medium level extraction.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

**Table 2**  
**September 2010 Groundwater Analytical Results**  
**253 Osborne Road**  
**NYSDEC HW#401056**

VOC	703.5 Water Quality Standards	Groundwater Sample ID								
		PDG-1	PDG-2	PDG-3	PDG-4	PDG-5	PDG-6	PDG-7	PDG-8	PDG-9
Tetrachloroethene	5	<b>48</b>	<b>6.3</b>	4.6	0.61 J	<b>110 D08</b>	NS	ND	<b>930 D08</b>	<b>24</b>
Trichloroethene	5	13	1.3	0.60 J	ND	1.1	NS	ND	<b>77</b>	1.4
Total 1,2-Dichloroethene	5	<b>130 D08</b>	2.4	ND	2.9	ND	NS	ND	<b>88</b>	2.3
cis-1,2-Dichloroethene	5	<b>130 D08</b>	2.4	ND	2.9	ND	NS	ND	<b>87</b>	2.3
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	NS	ND	1.5	ND
Chloroethane	5	ND	ND	0.65 J	ND	ND	NS	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	NS	ND	ND	2.4
Methylene Chloride	5	ND	ND	ND	ND	ND	NS	ND	ND	ND
Acetone	5	ND	ND	4.3 J	ND	ND	NS	ND	ND	ND
Isopropylbenzene	5	ND	4.1	1.4	ND	ND	NS	ND	ND	ND
Methylcyclohexane	5	ND	1.2	ND	ND	ND	NS	ND	ND	ND
Ethylbenzene	5	ND	2.4	ND	ND	ND	NS	ND	ND	ND
Xylenes	5	ND	2.2	ND	ND	ND	NS	ND	ND	ND

All concentrations are in micrograms per liter (ug/l) or parts per billion (ppb).

ND = non-detect at the method detection limit (MDL), which varies per compound.

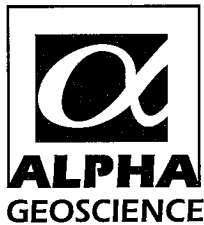
NS = No sample collected; dry hole.

J = laboratory data qualifier indicating analyte detected at level less than reporting limit (RL) and greater than or equal to the method detection limit (MDL)..

D08 = laboratory data qualifier indicating dilution was required due to target analyte concentrations.

All samples were analyzed using USEPA Method 8260. Only detectable compounds reported.

## **Data Validation Reports**



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October 8, 2010

Mr. William J. Miller, III  
Senior Hydrogeologist  
Continental Placer Inc.  
II Winners Circle  
Albany, New York 12205

Re: Data Validation Report  
253 Osborne Road, Loudonville, NY  
September 2010 Soil and Water Sampling Events

Dear Mr. Miller:

The data validation summaries and data usability summary reports (DUSRs) are attached to this letter for 253 Osborne Road, September 2010, soil and water sampling events. The data for TestAmerica Buffalo, work orders, RTI0925, RTI1020, and RTI1238 were acceptable with some minor issues that are identified and discussed in the validation summaries. There were no data that were qualified as either estimated (J) or unusable (R) in the data packs.

A list of common data qualifiers and data validation acronyms is attached to this letter to assist you interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Continental Placer, Inc.

Sincerely,  
Alpha Geoscience

Donald Anne  
Senior Chemist

DCA:dca

Z:\projects\2010\10621 - 10640\10622-osborne road\osborne road-101.ltr.wpd



## Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

## **Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II**

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



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**Data Usability Summary Report for  
TestAmerica Buffalo, Work Order: RTI0925**

**11 Soil Samples and 4 Water Samples,  
Collected September 13, 2010**

Prepared by: Donald Anné  
October 8, 2010

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The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data packs contained the results for 11 soil samples and 4 water samples analyzed for volatiles only.

The overall performances of the analyses are acceptable. TestAmerica Buffalo did fulfill the requirements of the analytical methods.

The data are acceptable with some minor issues that are identified in the accompanying data validation review. There were no data that were flagged either estimated (J), unusable (R), or not detected (U); therefore all data are considered usable. Detailed information on data quality is included in the data validation review.



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**QA/QC Review of 8260 Volatiles Data for  
TestAmerica Buffalo, Work Order: RTI0925**

**11 Soil Samples and 4 Water Samples  
Collected September 13, 2010**

Prepared by: Donald Anné  
October 8, 2010

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Holding Times: The samples were analyzed within NYSDEC ASP holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The SPCCs and CCCs were within method 8260B criteria.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%) , as required.

Continuing Calibration: The SPCCs and CCCs were within method 8260B criteria.

The RRF50s for target compounds were above the allowable minimum (0.050), as required.

The %D for 1,2-dibromo-3-chloropropane was above the allowable maximum (25%) on 09-15-10 (T004038-CCV1). The %D for 1,2-dibromo-3-chloropropane was above the allowable maximum (25%) on 09-16-10 (T004067-CCV1). Positive results for 1,2-dibromo-3-chloropropane should be considered estimated (J) in associated samples.

Blanks: The analyses of method blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for environmental samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences (RPDs) were below the allowable maximums and the percent recoveries (%Rs) were within control limits for aqueous MS/MSD sample PDG-8. (This data is from work order no. RTI1020)

The RPDs were below the allowable maximums, but 20 of 28 %Rs were below control limits for soil MS/MSD sample PDG-9d. No action is taken on MS/MSD data alone to qualify or reject an entire set of samples. (This data is from work order no. RTI1020)

Laboratory Control Sample: The percent recoveries were within QC limits for soil LCSs 10I0919-BS1, 10I1011-BS1, and 10I1029-BS1, and aqueous LCS 10I1273-BS1 and 10I1344-BS1.

Compound ID: Checked compounds were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The results for cis-dichloroethene in sample PDG-1 and tetrachloroethene in samples PDG-5S, PDG-5d, and PDG-5 were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The samples were diluted by the laboratory and re-analyzed; therefore, the results that are flagged as 'E' in the undiluted samples should be considered estimated (J). The use of the diluted results for cis-dichloroethene and tetrachloroethene are recommended. It is recommended that the undiluted results be used for all other compounds. Note: The laboratory reported the data as described; therefore, no data was flagged.



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**Data Usability Summary Report for  
TestAmerica Buffalo, Work Order: RTI1020**

**6 Soil Samples, 4 Water Samples,  
and 1 Trip Blank  
Collected September 14, 2010**

Prepared by: Donald Anné  
October 8, 2010

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The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data packs contained the results for 6 soil samples, 4 water samples, and 1 trip blank analyzed for volatiles only.

The overall performances of the analyses are acceptable. TestAmerica Buffalo did fulfill the requirements of the analytical methods.

The data are acceptable with some minor issues that are identified in the accompanying data validation review. There were no data that were flagged either estimated (J), unusable (R), or not detected (U); therefore all data are considered usable. Detailed information on data quality is included in the data validation review.



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**QA/QC Review of 8260 Volatiles Data for  
TestAmerica Buffalo, Work Order: RTI1020**

**6 Soil Samples, 4 Water Samples,  
and 1 Trip Blank  
Collected September 14, 2010**

Prepared by: Donald Anné  
October 8, 2010

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Holding Times: The samples were analyzed within NYSDEC ASP holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The SPCCs and CCCs were within method 8260B criteria.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The SPCCs and CCCs were within method 8260B criteria.

The RRFs for target compounds were above the allowable minimum (0.050) and the %Ds were below the allowable maximum (25%), as required.

Blanks: Method blank 10I1152-BLK1 contained a trace of methylene chloride (3.9 ug/kg). Positive results for methylene chloride that are less than ten times the highest blank level should be reported as not detected (U) in associated samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for environmental samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences (RPDs) were below the allowable maximums and the percent recoveries (%Rs) were within control limits for aqueous MS/MSD sample PDG-8.

The RPDs were below the allowable maximums, but 20 of 28 %Rs were below control limits for soil MS/MSD sample PDG-9d. No action is taken on MS/MSD data alone to qualify or reject an entire set of samples.

Laboratory Control Sample: The percent recoveries were within QC limits for soil LCSs 10I1152-BS1 and 10I1220-BS1, and aqueous LCS 10I1448-BS1 and 10I1501-BS1.

Compound ID: Checked compounds were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The results for tetrachloroethene in samples PDG-8d and PDG-8 were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The samples were diluted by the laboratory and re-analyzed; therefore, the results that are flagged as 'E' in the undiluted samples should be considered estimated (J). The use of the diluted results for tetrachloroethene are recommended. It is recommended that the undiluted results be used for all other compounds. Note: The laboratory reported the data as described; therefore, no data was flagged.





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**Data Usability Summary Report for  
TestAmerica Buffalo, Work Order: RTI1238**

**2 Soil Samples  
Collected September 17, 2010**

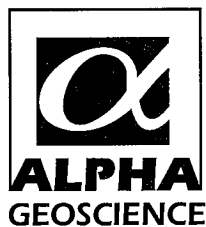
Prepared by: Donald Anné  
October 8, 2010

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The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data packs contained the results for 2 soil samples analyzed for volatiles only.

The overall performances of the analyses are acceptable. TestAmerica Buffalo did fulfill the requirements of the analytical methods.

The data are acceptable with some minor issues that are identified in the accompanying data validation review. There were no data that were flagged either estimated (J), unusable (R), or not detected (U); therefore all data are considered usable. Detailed information on data quality is included in the data validation review.



**QA/QC Review of 8260 Volatiles Data for  
TestAmerica Buffalo, Work Order: RTI1238**

**2 Soil Samples  
Collected September 17, 2010**

Prepared by: Donald Anné  
October 8, 2010

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Holding Times: The samples were analyzed within NYSDEC ASP holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The SPCCs and CCCs were within method 8260B criteria.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%) , as required.

Continuing Calibration: The SPCCs and CCCs were within method 8260B criteria.

The RRF50s for target compounds were above the allowable minimum (0.050), as required.

The %D for 1,2-dibromo-3-chloropropane was above the allowable maximum (25%) on 09-23-10 (T004180-CCV1). The %D for 1,2-dibromo-3-chloropropane was above the allowable maximum (25%) on 09-24-10 (T004209-CCV1). Positive results for 1,2-dibromo-3-chloropropane should be considered estimated (J) in associated samples.

Blanks: The analyses of method blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for environmental samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences were below the allowable maximums, but 20 of 28 percent recoveries were below control limits for soil MS/MSD sample PDG-9d. No action is taken on MS/MSD data alone to qualify or reject an entire set of samples. (This data is from work order no. RTI1020)


Laboratory Control Sample: The percent recoveries were within QC limits for soil LCSs 10I1674-BS1 and 10I1796-BS1.

Compound ID: Checked compounds were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The result for tetrachloroethene in sample TP-PD1 was quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The sample was diluted by the laboratory and re-analyzed; therefore, the results that are flagged as 'E' in the undiluted samples should be considered estimated (J). The use of the diluted result for tetrachloroethene is recommended. It is recommended that the undiluted results be used for all other compounds. Note: The laboratory reported the data as described; therefore, no data was flagged.

## Soil Boring Logs

# TEST BORING LOG

 CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-1	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				0		
						Rec = 3.0 feet
						Dry to moist
2	S-1			0	0.0 - 3.0 feet - Brown, tan fine sand, some silt	
				0		
				0		
				0		
4				0		
				0		
				0		
6	S-2			0	0.0 - 4.0 feet - Same	Rec = 4.0 feet
				0		Wet
				0		
				0		Sampled soil at 5-7 feet (PDG1S/5-7')
				0		
8				0		
				0	0 - 3.0 feet - Same	Rec = 3.8 feet
				0	3.0 - 3.8 feet - Grey, medium to coarse gravel, shale bedrock chips	Wet
				0		
10	S-3			0	Bedrock at 10.5 feet	Sampled soil at 9-10 feet (PDG1D/9-10')
				0	EOB @10.5 feet	
					Groundwater sample collected (PDG-1)	
12						


## TEST BORING LOG

<b>CONTINENTAL PLACER INC.</b> II Winners Circle, Albany, New York 12205						<b>BORING NO.: PDG-2</b>	
<b>PROJECT:</b> 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
<b>CLIENT:</b> 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
<b>DRILLING CONTRACTOR:</b> Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
<b>PURPOSE:</b> Environmental Assessment						Ground Elev.:	
<b>DRILLING METHOD:</b> Direct-Push					Sample	Core	Casing
<b>DRILL RIG TYPE:</b> Track GeoProbe				Type			Datum: Grade
<b>GROUNDWATER DEPTH:</b>				Diameter			Start Date: 09/13/10
<b>MEASURING POINT:</b>				Weight			End Date: 09/13/10
<b>DATE OF MEASUREMENT:</b>				Fall			Driller: Mike Sarro
							Inspector: Bill Miller


  

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0						
2	S-1			0	0.0 - 0.2 feet - Grey, white medium to coarse gravel; concrete chips 02. - 2.0 feet - Brown fine sand, some silt	Rec = 2.0 feet
						Dry
				0		
						Moist to wet
				0		
				15		
4	S-2			1	0.0 - 4.0 feet - Brown, tan fine sand, some silt  Less than 2-inch layer at 6 feet seemed to be source of high PIDs; this layer was sampled  Bedrock at 8.0 feet EOB @ 8.0 feet	Rec = 4.0 feet
						Wet
				2		
						Sampled soil at 5-7 feet (PDG2S/5-7')
				1		
				0		
8					Groundwater sample collected (PDG-2)	Rec = 3.8 feet
						Wet
10						
12						

# TEST BORING LOG

 CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-3	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push				Type	Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				0			
					0.0 - 2.3 feet - Brown, tan fine sand, some silt		Rec = 2.5 feet
							Moist to wet
				0			Sampled at 2-3 feet
2	S-1						(PDG3S/2-3')
				5	2.3 -2.5 feet - Black fine sand; odor		
				1			
4							
				10	0.0 - 1.4 feet - Brown, tan fine sand, some silt		Rec = 1.4 feet
					Refusal at 4.5 feet		Wet
6	S-2				EOB @ 4.5 feet		Sampled soil at 3-4.5 ft
							(PDG3D/3-4.5')
					Tried to collect groundwater sample; hole pumped to dryness; leave screen in hole for sampling attempt on 9/14/10		
8							
					Turbid groundwater sample collected on 9/14/10 (PDG-3)		
10							
12							

# TEST BORING LOG

 CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-4	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description		Remarks
0				0			
	S-1			0	0.0 - 3.5 feet - Brown, tan fine sand, some silt		Rec = 3.5 feet
				0			Moist
2				0			
				0			
				0			
4	S-2			0	0.0 - 2.5 feet - Same		Rec = 2.5 feet
				0			Wet
6				0			Sampled soil at 5-7 feet
				0			(PDG4S/5-7')
				0			
8	S-3			0	0.0 - 2.0 feet - Same		Rec = 4.0 feet
				0			Wet
10				0			Sampled soil at 8-10 feet
				0			(PDG1D/8-10')
				0			
				0	2.0 - 4.0 feet - Grey fine ot medium to coarse gravel; shale chips		
				0	Weathered bedrock at 10.0 feet		
12					EOB @ 12 feet		
					Groundwater sample collected (PDG-4)		



## TEST BORING LOG

CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-5	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			Start Date: 09/13/10
GROUNDWATER DEPTH:				Diameter			End Date: 09/13/10
MEASURING POINT:				Weight			Driller: Mike Sarro
DATE OF MEASUREMENT:				Fall			Inspector: Bill Miller

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				0		Rec = 2.5 feet
	S-1				0.0 - 0.8 feet - Grey, white fine to medium sand and	Moist
				0	medium to coarse gravel; concrete chi	
2					0.8 - -2.5 feet - Dark tan fine sand, some silt	
				0		
				1		
4	S-2			7		Rec = 3.2 feet
					0.0 - 3.2 feet - Same	Moist to wet
				5		
6				1		Sampled soil at 4-5 feet (PDG5S/4-5')
				1		
8	S-3			0.5		Rec = 4.0 feet
					0.0 - 4.0 feet - Same	Wet
				0		
10				0		Sampled soil at 9-11 feet (PDG5D/9-11')
				0		
12				0	Bedrock at 11.7 feet	
					EOB @ 11.7 feet	
					Groundwater sample collected (PDG-5)	


## TEST BORING LOG

CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-6	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			Start Date: 09/13/10
GROUNDWATER DEPTH:				Diameter			End Date: 09/13/10
MEASURING POINT:				Weight			Driller: Mike Sarro
DATE OF MEASUREMENT:				Fall			Inspector: Bill Miller


Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				0		
	S-1			0	0.0 - 3.5 - Brown, tan fine sand , some silt	Rec = 3.5 feet
				0		Dry
2				0		Moist
				0		Sampled soil at 2-4 feet (PDG6S/2-4')
				0		
4	S-2			0	0.0 - 2.8 feet - Same	Rec = 3.0 feet
				0		Moist
6				0		Sampled soil at 5-7 feet (PDG6D/5-7')
				0		2.8 - 3.0 feet - Grey medium to coarese gravel; shale chips
						Bedrock at 7.0 feet
8					EOB @ 7.0 feet	
					Dry hole; no groundwater sample collected	
10						
12						

# TEST BORING LOG

 CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-7	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
						Datum: Grade	
						Start Date: 09/14/10	
						End Date: 09/14/10	
						Driller: Mike Sarro	
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				0		
					0.0 - 2.8 - Brown, tan fine sand , some silt	Rec = 2.8 feet
						Dry
				0		
2	S-1			0		Moist
						Sampled soil at 2-4 feet (PDG7S/2-4')
				0		
4						
				0		Rec = 2.5 feet
					0.0 - 2.5 feet - Same	Moist
				0		
6	S-2			0		Sampled soil at 5-7 feet (PDG7D/5-7')
					Refusal at 7.0 feet	
				0	EOB @ 7.0 feet	
8						
					Groundwater sample collected (PDG-7)	
10						
12						


# TEST BORING LOG

 CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						BORING NO.: PDG-8	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
Inspector: Bill Miller							


  

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks	
0				0			
	S-1			0	0.0 - 2.9 feet - Brown, tan fine sand, some silt	Rec = 2.9 feet	
						Dry to moist	
				0			
2				0			
				0			
	S-2			0	0.0 - 1.5 feet - Brown, black fine sand and silt	Rec = 3.8 feet	
						Dry to moist	
				0		1.5 - 3.8 feet - Brown, tan, fine sand and silt, some clay	
6				0			Sampled soil at 6-7 feet (PDG8S/6-7')
				0			
			0				
8	S-3			0	0.0 - 3.9 feet - Same	Rec = 3.9 feet	
						Moist to wet	
				0			
10				0			
				0			
12							

# TEST BORING LOG

 CONTINENTAL PLACER INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: PDG-8
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>2</u> of <u>2</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
12						
				0	0.0 - 1.5 feet - Same	Rec = 4.0 feet
						Wet
14	S-4			0	1.5 - 4.0 feet - Brown, black fine sane and medium to coarse gravel, some silt	Sampled soil at 13-15 feet (PDG8D/13-15')
				0		
					Refusal at 16 feet	
16				0	EOB @ 16.0 feet	
					Groundwater sample collected (PDG-8)	
18						
20						
22						
24						
26						
28						
30						


# TEST BORING LOG

 <b>CONTINENTAL PLACER INC.</b> 11 Winners Circle, Albany, New York 12205						BORING NO.: PDG-9	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
DRILLING CONTRACTOR: Aquifer Drilling and Testing, Inc.						Meas. Pt. Elev.:	
PURPOSE: Environmental Assessment						Ground Elev.:	
DRILLING METHOD: Direct-Push					Sample	Core	Casing
DRILL RIG TYPE: Track GeoProbe				Type			
GROUNDWATER DEPTH:				Diameter			
MEASURING POINT:				Weight			
DATE OF MEASUREMENT:				Fall			
						Datum: Grade	
						Start Date: 09/14/10	
						End Date: 09/14/10	
						Driller: Mike Sarro	
						Inspector: Bill Miller	

Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks
0				0		
	S-1				0.0 - 3.5 feet - Brown, tan fine sand, some silt	Rec = 3.5 feet
						Dry to moist
2						
	S-2				0.0 - 3.0 feet - Brown, tan fine sand, some silt, some coarse gravel	Rec = 3.0 feet
						Dry to moist
6						Sampled soil at 6-8 feet (PDG9S/6-8')
	S-3				0.0 - 3.5 feet - Brown, tan fine to medium sand, some silt, trace coarse gravel	Rec = 2.5 feet
						Moist
10						
12						

# TEST BORING LOG

 CONTINENTAL PLACER INC II Winners Circle, Albany, New York 12205 (518) 458-9203						BORING NO.: PDG-9	
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>2</u> of <u>2</u>	
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641	
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class.	PID (ppm)	Geologic Description	Remarks	
12						Rec = 3.5 feet	
				0	0.0 - 3.5 feet - Same	Wet	
14	S-4			0		Sampled soil at 13-15 feet (PDG1D/13-15')	
				0			
					Refusal at 16 feet		
16				0	EOB @ 16.0 feet		
					Groundwater sample collected (PDG-9)		
18							
20							
22							
24							
26							
28							
30							

## TEST PIT LOG

CONTINENTAL PLACER INC. II Winners Circle, Albany, New York 12205						TEST PIT NO.: TP-1
PROJECT: 253 Osborne Road Post Demolition Investigation						Sheet <u>1</u> of <u>1</u>
CLIENT: 253 Osborne Road Associates, LLC						Job No.: E709-02-10-3641
DRILLING CONTRACTOR: Albany Tank Services						Start Date: 09/17/10
PURPOSE: Environmental Assessment						End Date: 09/17/10
EXCAVATOR: Dave Dooley						Inspector: Bill Miller
EQUIPMENT: Track-Hoe						Weather: Partly Cloudy, Cool

Depth	Sample No.	Moisture	Unified Class.	PID (ppm)	Geologic Description	Remarks
0		Dry		0	0.0 - 0.2 feet - asphalt pavement	Place test pit next to broken stormwater culvert
2		Dry		0	0.2 - 2.0 feet - Brown fine sand, some silt	
					1-foot diameter broken concrete stormwater culvert pipe immediately adjacent to (east side) test pit	Sample soil at 2-4 feet (TP-PD1)
		Dry		1.8	2.0 - 4.0 feet - Brown, black fine sand and fine to medium gravel; organic	
4		Moist		16		Water from broken culvert pouring into excavation
		Moist		15	4.0 - 9.0 feet - Brown, orange fine sand	
		Moist		8		
6						
		Moist		2.6		
		Moist		2.8		Sample soil at 7-9 feet (TP-PD2)
8						
		Wet		4	Bedrock at 9.4 feet	
					End of Test Pit at 9.4 feet	
10		Wet		4.4		
12						



## **Appendix 13**

### **October 2010 Staged Material Photographs and Analytical Result Summaries**



December 22, 2010

Mr. Brett J. Richer  
Environmental Compliance Manager  
Walgreen Company  
106 Wilmot Road MS#1620  
Deerfield, Illinois 60015

**VIA ELECTRONIC MAIL: [brett.richer@walgreens.com](mailto:brett.richer@walgreens.com)**

**Re: Waste Characterization and Disposal Summary Report  
Proposed Walgreens Store #11902  
465 Albany-Shaker Road and 253 Osborne Road, Colonie, New York**

Dear Mr. Richer:

URS Corporation (URS) is pleased to present this report to the Walgreen Company (Walgreens) to summarize the waste characterization and disposal activities that occurred between June 11, 2010 and November 5, 2010 for wastes identified at 465 Albany-Shaker Road and 253 Osborne Road in Colonie, New York. The following items were removed from the site for proper disposal.

- Six 55-gallon drums of non-hazardous waste (five solid waste and one liquid waste)
- One 55-gallon drum of hazardous waste benzene solution
- 50 pounds of hazardous waste paint related materials
- 25 pounds of hazardous waste aerosol cans
- 29 fluorescent lamps
- 12 non-PCB ballasts
- Three fire extinguishers
- One 55-gallon drum of oil stained soil, absorbent material, and a container with oily residue
- One 5-gallon container of Serpiloc
- One air conditioner

The removal activities are summarized below.

#### **Waste Characterization and Disposal of Orphan Drums**

On June 11, 2010, MC Environmental Services, Inc. (MCES) collected two composite solid samples and one composite liquid sample from the six 55-gallon drums that were present in the former service center garage located at 465 Albany-Shaker Road. MCES submitted the samples to Phoenix Environmental Laboratories, Inc. (Phoenix) for waste characterization analysis. The samples were analyzed for toxicity characteristic leaching procedure (TCLP) metals, TCLP volatile organic compounds (VOCs), TCLP semivolatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs). The samples were also analyzed for total petroleum hydrocarbons, pH, flashpoint, and reactivity. A copy of the analytical laboratory report is provided in Attachment A. MCES provided the analytical results to Veolia Environmental Services (VES) to generate waste profiles. VES characterized the six 55-gallon drums as non-hazardous waste. Copies of the waste profiles are provided in Attachment B.

During the waste characterization sampling activities on June 11, 2010, used aerosol cans and waste paint materials were observed in the former service center garage. In addition, URS observed universal waste lamps, non-PCB ballasts, and fire extinguishers in the service center garage. URS and Walgreens decided that these items should be properly disposed of concurrently with the orphan drum removal to prepare the site for demolition. The aerosol cans and waste paint related materials were characterized as flammable hazardous waste by VES based on generator knowledge. Copies of the waste profiles are provided in Attachment B.

On July 20, 2010, MCES (EPA ID No. NYR000021071) was onsite to package and transport the waste materials from the site. Five 55-gallon drums of non-hazardous solid waste and one 55-gallon drum of non-hazardous liquid waste were shipped to VES in West Carrollton, Ohio (EPA ID No. OHD093945293) for disposal. Three of the 55-gallon drums were placed into overpack containers due to issues with the integrity of the drums. Twenty-five pounds of hazardous waste aerosol cans and 50 pounds of waste paint related materials were placed into separate, appropriately labeled drums and shipped to VES in Menomonee Falls, Wisconsin (EPA ID No. WID003967148) for disposal. Twenty-nine universal waste lamps and 12 non-PCB ballasts were shipped to Waste Management and Recycling Products in Schenectady, New York for disposal. Three fire extinguishers were shipped to New York Fire and Signal Corporation in Glens Falls, New York for disposal. Copies of the shipping documents are provided in Attachment C.

During the waste removal activities on July 20, 2010, an additional 55-gallon drum of liquid waste was identified. URS and Walgreens agreed that the liquid waste needed to be characterized for proper disposal. On July 27, 2010, MCES returned to the site to collect a waste characterization sample from the drum. The sample was submitted to Phoenix and analyzed for TCLP metals, TCLP VOCs, TCLP SVOCs, PCBs, pH, flashpoint, and reactivity. A copy of the analytical laboratory report is provided in Attachment A. MCES provided the analytical results to VES to generate a waste profile. VES characterized the waste as a benzene solution. A copy of the waste profile is provided in Attachment B. On August 13, 2010, MCES returned to the site to transport the 55-gallon drum to VES in West Carrollton, Ohio (EPA ID No. OHD093945293) for disposal. A copy of the waste manifest is provided in Attachment C.

### **Spill Response Activities**

On September 13, 2010, Mr. Chris O'Neil of the New York State Department of Environmental Conservation (NYSDEC) was onsite with Mr. Bill Miller of Continental Placer for site investigation activities related to the former dry cleaner operations at the 253 Osborne Road parcel. A small waste oil spill was observed on the 253 Osborne Road parcel related to a 2-gallon waste oil container that was abandoned on the edge of the property. Mr. O'Neil requested that the spill be called in to the NYSDEC Spill Hotline by URS. The spill was issued spill number 1006400. The spill was immediately cleaned by URS personnel using a granular absorbent material. The waste oil and granular absorbent material were placed into two 5-gallon drums. The 2-gallon waste oil container was placed into a separate 5-gallon drum. The NYSDEC indicated that the spill would be closed after observing the cleanup at the site. A copy of the spill closure record from the NYSDEC spill database is provided in Attachment D.

MCES returned to the site on November 5, 2010 to remove the waste materials associated with the spill. The waste materials were characterized as non-hazardous waste based on generator knowledge. The spill related materials were shipped under a non-hazardous waste manifest to Bridgeport United Recycling in Bridgeport, Connecticut (EPA ID No. CTD002593887) for disposal.

**Waste Disposal of Additional Items**

URS observed a small air conditioner and one 5-gallon bucket of Serpiloc (an encapsulant typically used during asbestos abatement) at the site. URS and Walgreens decided to properly dispose of these items so that the site is ready for future development activities. On November 10, 2010, the 5-gallon bucket of Serpiloc was shipped as non-hazardous waste to VES in West Carrollton, Ohio (EPA ID No. OHD093945293) for disposal. The waste profile for the Serpiloc is provided in Attachment B. On November 13, 2010, MCES transported the small air conditioner to the Town of Lake George Transfer Station in Lake George, New York for disposal. Copies of the waste manifests are provided in Attachment C.

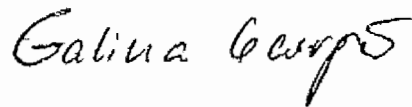
If you have any questions or require additional information, please do not hesitate to call Ms. Galina Georgiew (312.596.6775).

Sincerely,

**URS CORPORATION**

Handwritten signature of David Meiri in black ink.

Jennifer Gillies  
Project Geologist

Handwritten signature of Galina Georgiew in black ink.

Galina Georgiew, P.G.  
Principal Geologist

**Attachments:**

Attachment A – Laboratory Analytical Data Reports  
Attachment B – TSDF Waste Profile Forms  
Attachment C – Shipping Documents  
Attachment D – Spill Closure Record

cc: David Meiri, URS Corporation

**ATTACHMENT A**  
**ANALYTICAL LABORATORY REPORTS**



Tuesday, June 22, 2010

Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

Project ID: 465 ALBANY SHAKER RD.  
Sample ID#s: AZ14912 - AZ14914

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B  
NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

June 22, 2010

FOR: Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

### Sample Information

Matrix: WASTE WATER  
Location Code: MCES  
Rush Request:  
P.O.#:

### Custody Information

Collected by: MC  
Received by: LB  
Analyzed by: see "By" below

Date Time  
06/11/10 9:45  
06/16/10 11:24

### Laboratory Data

SDG ID: GAZ14912  
Phoenix ID: AZ14912

Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED WASTE WATER

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Arsenic	< 0.01	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Barium	0.12	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Cadmium	< 0.005	0.005	mg/L	06/18/10		LK	E1311/SW6010
TCLP Chromium	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/18/10		TH	E1311/SW7471
TCLP Lead	< 0.015	0.015	mg/L	06/18/10		LK	E1311/SW8010
TCLP Selenium	< 0.01	0.01	mg/L	06/18/10		EK	E1311/SW6010
Flash Point	>200	200	degree F	06/17/10		AW	SW846 - 1010
Ignitability	Passed	140	deg F	06/17/10		AW	SW846 - 1010
pH	7.77	0.10	pH	06/17/10	4:36	BS/EG	4500-H B/9040
Reactivity Cyanide	< 1.0	1.0	mg/L	06/16/10		GD	SW 846-7.3
Reactivity Sulfide	< 0.4	0.4	mg/L	06/16/10		GD	SW846-7.3
Reactivity	Negative			06/16/10		GD	SW 846-7.3
PCB Extraction	Completed			06/17/10		O/O	SW3510/3520
TCLP Digestion Mercury	Completed			06/18/10		K	E1311/7470
TCLP Extraction for Metals	Completed			06/16/10		K	EPA 1311
TCLP Extraction for Organics	Completed			06/16/10		K	1311
TCLP Semi-Volatile Extraction	Completed			06/17/10		L	SW3510/3520
TCLP Extraction Volatiles	Completed			06/16/10		K	EPA 1311
TCLP Metals Digestion	Completed			06/17/10		K	SW846 - 3005
Extraction of TPH	Completed			06/18/10		O/E	3510/3520
Gasoline Range Organics	ND	1.0	mg/L	06/18/10		KCA	8015GRO
<b>Polychlorinated Biphenyls</b>							
PCB-1016	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1221	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1232	ND	0.71	ug/L	06/18/10		MH	608/ 8082

Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED WASTE WATER

Phoenix I.D.: AZ14912

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB-1242	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1248	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1254	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1260	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1262	ND	0.71	ug/L	06/18/10		MH	608/ 8082
PCB-1268	ND	0.71	ug/L	06/18/10		MH	608/ 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	82		%	06/18/10		MH	608/ 8082
% TCMX	122		%	06/18/10		MH	608/ 8082

**TCLP Acid/Base-Neutral**

1,4-Dichlorobenzene	ND	180	ug/L	06/18/10		HM	SW 8270
2,4,5-Trichlorophenol	ND	180	ug/L	06/18/10		HM	SW 8270
2,4,6-Trichlorophenol	ND	180	ug/L	06/18/10		HM	SW 8270
2,4-Dinitrotoluene	ND	180	ug/L	06/18/10		HM	SW 8270
2-Methylphenol (o-cresol)	ND	180	ug/L	06/18/10		HM	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	180	ug/L	06/18/10		HM	SW 8270
Hexachlorobenzene	ND	180	ug/L	06/18/10		HM	SW 8270
Hexachlorobutadiene	ND	180	ug/L	06/18/10		HM	SW 8270
Hexachloroethane	ND	180	ug/L	06/18/10		HM	SW 8270
Nitrobenzene	ND	180	ug/L	06/18/10		HM	SW 8270
Pentachlorophenol	ND	880	ug/L	06/18/10		HM	SW 8270
Pyridine	ND	180	ug/L	06/18/10		HM	SW 8270

**QA/QC Surrogates**

% 2,4,6-Tribromophenol	94		%	06/18/10		HM	SW 8270
% 2-Fluorobiphenyl	62		%	06/18/10		HM	SW 8270
% 2-Fluorophenol	62		%	06/18/10		HM	SW 8270
% Nitrobenzene-d5	66		%	06/18/10		HM	SW 8270
% Phenol-d5	49		%	06/18/10		HM	SW 8270
% Terphenyl-d14	60		%	06/18/10		HM	SW 8270

**TCLP Volatiles**

1,1-Dichloroethene	ND	50	ug/L	06/17/10		R/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/17/10		R/J	SW8260
Benzene	ND	50	ug/L	06/17/10		R/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/17/10		R/J	SW8260
Chlorobenzene	ND	50	ug/L	06/17/10		R/J	SW8260
Chloroform	ND	50	ug/L	06/17/10		R/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/17/10		R/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/17/10		R/J	SW8260
Trichloroethene	ND	50	ug/L	06/17/10		R/J	SW8260
Vinyl chloride	ND	50	ug/L	06/17/10		R/J	SW8260

**QA/QC Surrogates**

% 1,2-dichlorobenzene-d4	100		%	06/17/10		R/J	SW8260
% Bromofluorobenzene	95		%	06/17/10		R/J	SW8260
% Dibromofluoromethane	105		%	06/17/10		R/J	SW8260
% Toluene-d8	98		%	06/17/10		R/J	SW8260

**TPH by GC (Extractable Products)**

Aviation Fuel/Kerosene	ND	0.77	mg/L	06/22/10		KCA	8015DRO
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Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED WASTE WATER

Phoenix I.D.: AZ14912

Parameter	Result	RL	Units	Date	Time	By	Reference
Fuel Oil #2/ Diesel Fuel	ND	0.77	mg/L	06/22/10		KCA	8015DRO
Fuel Oil #4	ND	0.77	mg/L	06/22/10		KCA	8015DRO
Fuel Oil #6	ND	0.77	mg/L	06/22/10		KCA	8015DRO
Motor Oil	ND	0.77	mg/L	06/22/10		KCA	8015DRO
Other Oil (Cutting & Lubricating)	ND	0.77	mg/L	06/22/10		KCA	8015DRO
Unidentified	ND	0.77	mg/L	06/22/10		KCA	8015DRO
<b>QA/QC Surrogates</b>							
% n-Pentacosane	85		%	06/22/10		KCA	8015DRO

I = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

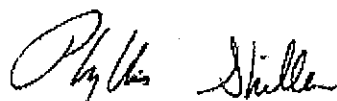
**Comments:**

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.  
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.  
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 23, 2010



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

June 22, 2010

FOR: Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

### Sample Information

Matrix: SOIL  
Location Code: MCES  
Rush Request:  
P.O.#:

### Custody Information

Collected by: MC  
Received by: LB  
Analyzed by: see "By" below

Date Time  
06/11/10 10:00  
06/16/10 11:24

### Laboratory Data

SDG ID: GAZ14912  
Phoenix ID: AZ14913

Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED SOIL #1

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Arsenic	< 0.01	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Barium	0.41	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Cadmium	< 0.005	0.005	mg/L	06/18/10		LK	E1311/SW6010
TCLP Chromium	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/18/10		TH	E1311/SW7471
TCLP Lead	0.017	0.015	mg/L	06/18/10		LK	E1311/SW8010
TCLP Selenium	< 0.02	0.02	mg/L	06/18/10		EK	E1311/SW6010
Percent Solid	92		%	06/16/10		C/JL	E160.3
Flash Point	>200	200	degree F	06/17/10		AW	SW846 - 1010
Ignitability	Passed	140	deg F	06/17/10		AW	SW846 - 1010
pH - Soil	7.60	0.10	PH	06/16/10	23:09	B/E/E	4500-H B/9045
Reactivity Cyanide	< 5.3	5.3	mg/Kg	06/16/10		GD	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	06/16/10		GD	SW846-7.3
Reactivity	Negative			06/16/10		GD	SW 846-7.3
Soil Extraction for PCB	Completed			06/16/10		BB/D	SW3545
TCLP Digestion Mercury	Completed			06/18/10		K	E1311/7470
TCLP Extraction for Metals	Completed			06/16/10		K	EPA 1311
TCLP Extraction for Organics	Completed			06/16/10		K	1311
TCLP Semi-Volatile Extraction	Completed			06/17/10		L	SW3510/3520
TCLP Extraction Volatiles	Completed			06/17/10		K	EPA 1311
TCLP Metals Digestion	Completed			06/17/10		K	SW846 - 3005
Extraction of TPH SM	Completed			06/16/10		BS/D	3545/3550
Gasoline Range Organics	ND	20	mg/Kg	06/18/10		KCA	8015GRO
<b>Polychlorinated Biphenyls</b>							
PCB-1016	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1221	ND	360	ug/Kg	06/17/10		MH	SW 8082

Project ID: 465 ALBANY SHAKER RD.

Phoenix I.D.: AZ14913

Client ID: DRUMMED SOIL #1

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB-1232	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1242	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1248	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1254	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1260	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1262	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1268	ND	360	ug/Kg	06/17/10		MH	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	81		%	06/17/10		MH	SW 8082
% TCMX	79		%	06/17/10		MH	SW 8082
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
2,4,5-Trichlorophenol	ND	170	ug/L	06/18/10		HM	SW 8270
2,4,6-Trichlorophenol	ND	170	ug/L	06/18/10		HM	SW 8270
2,4-Dinitrotoluene	ND	170	ug/L	06/18/10		HM	SW 8270
2-Methylphenol (o-cresol)	ND	170	ug/L	06/18/10		HM	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachlorobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachlorobutadiene	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachloroethane	ND	170	ug/L	06/18/10		HM	SW 8270
Nitrobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
Pentachlorophenol	ND	830	ug/L	06/18/10		HM	SW 8270
Pyridine	ND	170	ug/L	06/18/10		HM	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	98		%	06/18/10		HM	SW 8270
% 2-Fluorobiphenyl	62		%	06/18/10		HM	SW 8270
% 2-Fluorophenol	61		%	06/18/10		HM	SW 8270
% Nitrobenzene-d5	66		%	06/18/10		HM	SW 8270
% Phenol-d5	48		%	06/18/10		HM	SW 8270
% Terphenyl-d14	63		%	06/18/10		HM	SW 8270
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	06/22/10		R/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/22/10		R/J	SW8260
Benzene	ND	50	ug/L	06/22/10		R/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/22/10		R/J	SW8260
Chlorobenzene	ND	50	ug/L	06/22/10		R/J	SW8260
Chloroform	ND	50	ug/L	06/22/10		R/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/22/10		R/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/22/10		R/J	SW8260
Trichloroethene	ND	50	ug/L	06/22/10		R/J	SW8260
Vinyl chloride	ND	50	ug/L	06/22/10		R/J	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	101		%	06/22/10		R/J	SW8260
% Bromofluorobenzene	92		%	06/22/10		R/J	SW8260
% Dibromofluoromethane	102		%	06/22/10		R/J	SW8260
% Toluene-d8	102		%	06/22/10		R/J	SW8260

Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED SOIL #1

Phoenix I.D.: AZ14913

Parameter	Result	RL	Units	Date	Time	By	Reference
<b><u>TPH by GC (Extractable Products)</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Fuel Oil #4	ND	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Fuel Oil #6	ND	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Kerosene	ND	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Motor Oil	ND	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Other Oil (Cutting & Lubricating)	**	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
Unidentified	2000	360	mg/kg	06/21/10		KCA	8015M (C9-C36)
<b><u>QA/QC Surrogates</u></b>							
% n-Pentacosane	Diluted Out		%	06/21/10		KCA	8015M (C9-C36)

**Comments:**

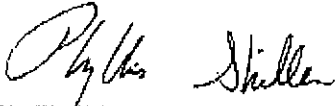
Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.  
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

\*\*Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles transformer oil.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director  
June 23, 2010



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

June 22, 2010

FOR: Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

### Sample Information

Matrix: SOIL  
Location Code: MCES  
Rush Request:  
P.O.#:

### Custody Information

Collected by: MC  
Received by: LB  
Analyzed by: see "By" below

Date Time  
06/11/10 10:10  
06/16/10 11:24

### Laboratory Data

SDG ID: GAZ14912  
Phoenix ID: AZ14914

Project ID: 465 ALBANY SHAKER RD.

Client ID: DRUMMED SOIL #2

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Arsenic	< 0.01	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Barium	0.41	0.01	mg/L	06/18/10		LK	E1311/SW6010
TCLP Cadmium	< 0.005	0.005	mg/L	06/18/10		LK	E1311/SW6010
TCLP Chromium	< 0.010	0.010	mg/L	06/18/10		LK	E1311/SW6010
TCLP Mercury	< 0.0002	0.0002	mg/L	06/18/10		TH	E1311/SW7471
TCLP Lead	0.022	0.015	mg/L	06/18/10		LK	E1311/SW6010
TCLP Selenium	< 0.02	0.02	mg/L	06/18/10		EK	E1311/SW6010
Percent Solid	90		%	06/16/10		c/JL	E160.3
Flash Point	>200	200	degree F	06/17/10		AW	SW846 - 1010
Ignitability	Passed	140	deg F	06/17/10		AW	SW846 - 1010
pH - Soil	8.34	0.10	PH	06/16/10	23:09	B/E/E	4500-H B/8045
Reactivity Cyanide	< 5.6	5.6	mg/Kg	06/17/10		KL/GD	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	06/17/10		KL/GD	SW846-7.3
Reactivity	Negative			06/17/10		KL/GD	SW 846-7.3
Soil Extraction for PCB	Completed			06/16/10		BB/D	SW3545
TCLP Digestion Mercury	Completed			06/18/10		K	E1311/7470
TCLP Extraction for Metals	Completed			06/16/10		K	EPA 1311
TCLP Extraction for Organics	Completed			06/16/10		K	1311
TCLP Semi-Volatile Extraction	Completed			06/17/10		L	SW3510/3520
TCLP Extraction Volatiles	Completed			06/17/10		K	EPA 1311
TCLP Metals Digestion	Completed			06/17/10		K	SW846 - 3005
Extraction of TPH SM	Completed			06/16/10		BS/D	3545/3550
Gasoline Range Organics	ND	20	mg/Kg	06/18/10		KCA	8015GRO
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1221	ND	360	ug/Kg	06/17/10		MH	SW 8082

Project ID: 465 ALBANY SHAKER RD.

Phoenix I.D.: AZ14914

Client ID: DRUMMED SOIL #2

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB-1232	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1242	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1248	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1254	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1260	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1262	ND	360	ug/Kg	06/17/10		MH	SW 8082
PCB-1268	ND	360	ug/Kg	06/17/10		MH	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	72		%	06/17/10		MH	SW 8082
% TCMX	72		%	06/17/10		MH	SW 8082
<b><u>TCLP Acid/Base-Neutral</u></b>							
1,4-Dichlorobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
2,4,5-Trichlorophenol	ND	170	ug/L	06/18/10		HM	SW 8270
2,4,6-Trichlorophenol	ND	170	ug/L	06/18/10		HM	SW 8270
2,4-Dinitrotoluene	ND	170	ug/L	06/18/10		HM	SW 8270
2-Methylphenol (o-cresol)	ND	170	ug/L	06/18/10		HM	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachlorobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachlorobutadiene	ND	170	ug/L	06/18/10		HM	SW 8270
Hexachloroethane	ND	170	ug/L	06/18/10		HM	SW 8270
Nitrobenzene	ND	170	ug/L	06/18/10		HM	SW 8270
Pentachlorophenol	ND	830	ug/L	06/18/10		HM	SW 8270
Pyridine	ND	170	ug/L	06/18/10		HM	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	118		%	06/18/10		HM	SW 8270
% 2-Fluorobiphenyl	76		%	06/18/10		HM	SW 8270
% 2-Fluorophenol	73		%	06/18/10		HM	SW 8270
% Nitrobenzene-d5	81		%	06/18/10		HM	SW 8270
% Phenol-d5	57		%	06/18/10		HM	SW 8270
% Terphenyl-d14	73		%	06/18/10		HM	SW 8270
<b><u>TCLP Volatiles</u></b>							
1,1-Dichloroethene	ND	50	ug/L	06/19/10		R/J	SW8260
1,2-Dichloroethane	ND	50	ug/L	06/19/10		R/J	SW8260
Benzene	ND	50	ug/L	06/19/10		R/J	SW8260
Carbon tetrachloride	ND	50	ug/L	06/19/10		R/J	SW8260
Chlorobenzene	ND	50	ug/L	06/19/10		R/J	SW8260
Chloroform	ND	50	ug/L	06/19/10		R/J	SW8260
Methyl ethyl ketone	ND	50	ug/L	06/19/10		R/J	SW8260
Tetrachloroethene	ND	50	ug/L	06/19/10		R/J	SW8260
Trichloroethene	ND	50	ug/L	06/19/10		R/J	SW8260
Vinyl chloride	ND	50	ug/L	06/19/10		R/J	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	104		%	06/19/10		R/J	SW8260
% Bromofluorobenzene	91		%	06/19/10		R/J	SW8260
% Dibromofluoromethane	109		%	06/19/10		R/J	SW8260
% Toluene-d8	105		%	06/19/10		R/J	SW8260

Project ID: 465 ALBANY SHAKER RD.  
Client ID: DRUMMED SOIL #2

Phoenix I.D.: AZ14914

Parameter	Result	RL	Units	Date	Time	By	Reference
<b><u>TPH by GC (Extractable Products)</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Fuel Oil #4	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Fuel Oil #6	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Kerosene	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Motor Oil	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Other Oil (Cutting & Lubricating)	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
Unidentified	ND	74	mg/kg	06/18/10		KCA	8015M (C9-C36)
<b><u>QA/QC Surrogates</u></b>							
% n-Pentacosane	55		%	06/18/10		KCA	8015M (C9-C36)

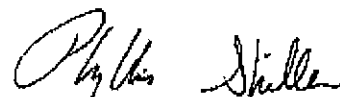
**Comments:**

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.  
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

June 23, 2010



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## QA/QC Report

June 23, 2010

### QA/QC Data

SDG I.D.: GAZ14912

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 155307, QC Sample No: AZ10355 (AZ14912, AZ14913, AZ14914)								
<b>ICP Metals - Aqueous Extraction</b>								
Arsenic	BDL	NC	118	120	1.7	118	119	0.8
Barium	BDL	77.2	100	101	1.0	97.2	101	3.8
Cadmium	BDL	NC	106	107	0.9	105	107	1.9
Chromium	BDL	NC	107	109	1.9	106	108	1.9
Lead	BDL	NC	104	105	1.0	103	105	1.9
Selenium	0.02	NC	124	127	2.4	123	125	1.6
Silver	BDL	NC	110	111	0.9	108	110	1.8
QA/QC Batch 155518, QC Sample No: AZ15038 (AZ14912, AZ14913, AZ14914)								
Mercury	BDL	NC	99.4	97.7	1.7	96.8	98.0	1.2

2 = This parameter is outside laboratory lcs/lcsd specified limits.





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## QA/QC Report

June 23, 2010

### QA/QC Data

SDG I.D.: GAZ14912

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 155472, QC Sample No: AZ14912 (AZ14912, AZ14913, AZ14914)								
Flash Point		NC	Passed					
QA/QC Batch 155366, QC Sample No: AZ14914 (AZ14912, AZ14913, AZ14914)								
Reactivity Cyanide	BDL		96.4					
QA/QC Batch 155415, QC Sample No: AZ15216 (AZ14913, AZ14914)								
pH - Soil		1.20	100					



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## QA/QC Report

June 23, 2010

### QA/QC Data

SDG I.D.: GAZ14912

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
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QA/QC Batch 155283, QC Sample No: AZ14360 (AZ14913, AZ14914)

#### Polychlorinated Biphenyls

PCB-1016	ND	96	97	1.0	*	*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	95	89	6.5	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	104	87	87	0.0	NR	NR	NC
% TCMX (Surrogate Rec)	90	89	89	0.0	NR	NR	NC

#### Comment:

\* The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

QA/QC Batch 155367, QC Sample No: AZ14669 (AZ14912, AZ14913, AZ14914)

#### Semivolatiles

1,4-Dichlorobenzene	ND	83	84	1.2			
2,4,5-Trichlorophenol	ND	101	99	2.0			
2,4,6-Trichlorophenol	ND	95	99	4.1			
2,4-Dinitrotoluene	ND	94	93	1.1			
2-Methylphenol (o-cresol)	ND	83	83	0.0			
3&4-Methylphenol (m&p-cresol)	ND	86	86	0.0			
Hexachlorobenzene	ND	80	81	1.2			
Hexachlorobutadiene	ND	85	88	3.5			
Hexachloroethane	ND	78	79	1.3			
Nitrobenzene	ND	94	91	3.2			
Pentachlorophenol	ND	79	77	2.6			
Pyridine	ND	<5	<5	NC			
% 2,4,6-Tribromophenol	88	112	114	1.8			
% 2-Fluorobiphenyl	67	88	87	1.1			
% 2-Fluorophenol	74	88	89	1.1			
% Nitrobenzene-d5	64	88	82	7.1			
% Phenol-d5	60	77	74	4.0			
% Terphenyl-d14	62	88	78	12.0			

#### Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 155577, QC Sample No: AZ14912 (AZ14912)

#### TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	77	81	5.1			
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**QA/QC Data**

SDG I.D.: GAZ14912

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
% n-Pentacosane	94	86	88	2.3			

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 155523, QC Sample No: AZ14930 (AZ14913, AZ14914)

**TPH by GC - EPA 8015 Modified**

Aviation Fuel/ Kerosene	ND						
Fuel Oil #2/ Diesel Fuel	ND						
Gasoline	ND	81			79	75	5.2
Unidentified	ND						

QA/QC Batch 155371, QC Sample No: AZ14933 (AZ14913, AZ14914)

**TPH by GC (Extractable Products)**

Ext. Petroleum HC	ND	103	112	8.4	100	106	5.8
% n-Pentacosane	63	74	80	7.8	75	80	6.5

QA/QC Batch 155495, QC Sample No: AZ15325 (AZ14912)

**Polychlorinated Biphenyls**

PCB-1016	ND	89	93	4.4			
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	87	90	3.4			
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	126	129	132	2.3			
% TCMX (Surrogate Rec)	79	75	75	0.0			

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 155640, QC Sample No: AZ16056 (AZ14914)

**Volatiles**

1,1-Dichloroethene	ND	77	86	11.0	102	110	7.5
1,2-Dichloroethane	ND	89	95	6.5	98	105	6.9
Benzene	ND	88	92	4.4	97	104	7.0
Carbon tetrachloride	ND	98	100	2.0	108	116	7.1
Chlorobenzene	ND	92	94	2.2	97	104	7.0
Chloroform	ND	89	95	6.5	96	103	7.0
Methyl ethyl ketone	ND	105	107	1.9	76	115	40.8
Tetrachloroethene	ND	91	92	1.1	111	105	5.6
Trichloroethene	ND	94	98	4.2	90	116	25.2
Vinyl chloride	ND	84	93	10.2	93	102	9.2
% 1,2-dichlorobenzene-d4	99	103	100	3.0	99	101	2.0
% Bromofluorobenzene	95	102	101	1.0	104	103	1.0
% Dibromofluoromethane	106	101	111	9.4	103	102	1.0
% Toluene-d8	100	100	100	0.0	102	103	1.0

QA/QC Batch 155710, QC Sample No: AZ16186 (AZ14913)

**Volatiles**

1,1-Dichloroethene	ND	88	90	2.2	108	105	2.8
1,2-Dichloroethane	ND	96	96	0.0	91	92	1.1
Benzene	ND	93	94	1.1	95	94	1.1

**QA/QC Data**

SDG I.D.: GAZ14912

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
Carbon tetrachloride	ND	106	109	2.8	103	103	0.0
Chlorobenzene	ND	99	96	3.1	98	94	4.2
Chloroform	ND	94	95	1.1	95	96	1.0
Methyl ethyl ketone	ND	103	100	3.0	95	93	2.1
Tetrachloroethene	ND	100	98	2.0	101	95	6.1
Trichloroethene	ND	90	90	0.0	114	111	2.7
Vinyl chloride	ND	96	100	4.1	114	110	3.6
% 1,2-dichlorobenzene-d4	101	100	99	1.0	101	97	4.0
% Bromofluorobenzene	95	103	101	2.0	102	102	0.0
% Dibromofluoromethane	107	104	102	1.9	103	107	3.8
% Toluene-d8	98	100	99	1.0	99	99	0.0

2 = This parameter is outside laboratory lcs/lcsd specified limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

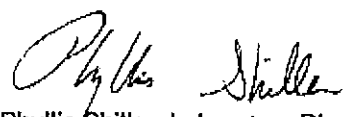
LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

  
Phyllis Shiller, Laboratory Director  
June 23, 2010

Wednesday, June 23, 2010

Requested Criteria:

## Sample Criteria Exceedences Report

GAZ14912

Page 1 of 1

SampNo	LocCode	Acode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	Factored		Analysis	
									Criteria	RL	Criteria	Units

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





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## **NY Temperature Narration**

**June 23, 2010**

**SDG I.D.: GAZ14912**

---

The samples in this delivery group were received at 4C.  
(Note acceptance criteria is above freezing up to 6C)



Monday, August 09, 2010

Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

Project ID: WALGREEN 465 ALBANY SHAKER  
Sample ID#s: AZ28060

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B  
NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301





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## Analysis Report

August 09, 2010

FOR: Attn: Mr. Mike Craft  
MC Environmental Services  
526 Queensbury Avenue  
Queensbury, NY 12804

### Sample Information

Matrix: WATER  
Location Code: MCES  
Rush Request:  
P.O.#:

### Custody Information

Collected by: JS  
Received by: LDF  
Analyzed by: see "By" below

Date Time  
07/27/10 8:45  
07/28/10 11:45

### Laboratory Data

SDG ID: GAZ28060  
Phoenix ID: AZ28060

Project ID: WALGREEN 465 ALBANY SHAKER

Client ID: DRUM

Parameter	Result	RL	Units	Date	Time	By	Reference
TCLP Silver	< 0.94	0.94	mg/L	08/01/10		EK	E1311/SW6010
TCLP Arsenic	< 0.94	0.94	mg/L	08/01/10		EK	E1311/SW6010
TCLP Barium	< 0.94	0.94	mg/L	08/01/10		EK	E1311/SW6010
TCLP Cadmium	< 0.47	0.47	mg/L	08/01/10		EK	E1311/SW6010
TCLP Chromium	< 0.94	0.94	mg/L	08/01/10		EK	E1311/SW6010
TCLP Mercury	< 0.0008	0.0008	mg/L	07/29/10		RS	E1311/SW7471
TCLP Lead	< 1.4	1.4	mg/L	08/01/10		EK	E1311/SW6010
TCLP Selenium	< 0.94	0.94	mg/L	08/01/10		EK	E1311/SW6010
Flash Point	>200	200	degree F	07/30/10		AW	SW846 - 1010
Ignitability	Passed	140	deg F	07/30/10		AW	SW846 - 1010
pH - Oil Matrix	6.85	0.10	PH	07/29/10	0:35	B/E/E	4500-H B/9045
Reactivity Cyanide	< 4.5	4.5	mg/Kg	07/28/10		SD/GD	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	07/28/10		SD/GD	SW846-7.3
Reactivity	Negative			07/28/10		SD/GD	SW 846-7.3
Mercury digestion	Completed			07/29/10		K	SW7471
Oil digestion for Metals	Completed			07/28/10		C/AG	SW846-3031
Waste Dilution for SVOA	Completed			07/28/10		C	SW3580
Waste Dilution PCB	Completed			07/28/10		C	SW8082

### Polychlorinated Biphenyls

PCB-1016	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1221	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1232	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1242	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1248	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1254	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1260	ND*	20	mg/kg	08/03/10		MH	SW 8082
PCB-1262	ND*	20	mg/kg	08/03/10		MH	SW 8082

Project ID: WALGREEN 465 ALBANY SHAKER  
Client ID: DRUM

Phoenix I.D.: AZ28060

Parameter	Result	RL	Units	Date	Time	By	Reference
PCB-1268	ND*	20	mg/kg	08/03/10		MH	SW 8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	08/03/10		MH	SW 8082
% TCMX	Diluted Out		%	08/03/10		MH	SW 8082
<u>TCLP Acid/Base-Neutral</u>							
1,4-Dichlorobenzene	ND	5000	ug/L	07/29/10		KCA	SW 8270
2,4,5-Trichlorophenol	ND	5000	ug/L	07/29/10		KCA	SW 8270
2,4,6-Trichlorophenol	ND	5000	ug/L	07/29/10		KCA	SW 8270
2,4-Dinitrotoluene	ND	5000	ug/L	07/29/10		KCA	SW 8270
2-Methylphenol (o-cresol)	ND	5000	ug/L	07/29/10		KCA	SW 8270
3&4-Methylphenol (m&p-Cresol)	ND	5000	ug/L	07/29/10		KCA	SW 8270
Hexachlorobenzene	ND	5000	ug/L	07/29/10		KCA	SW 8270
Hexachlorobutadiene	ND	5000	ug/L	07/29/10		KCA	SW 8270
Hexachloroethane	ND	5000	ug/L	07/29/10		KCA	SW 8270
Nitrobenzene	ND	5000	ug/L	07/29/10		KCA	SW 8270
Pentachlorophenol	ND	5000	ug/L	07/29/10		KCA	SW 8270
Pyridine	ND	5000	ug/L	07/29/10		KCA	SW 8270
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	*Diluted out		%	07/29/10		KCA	SW 8270
% 2-Fluorobiphenyl	*Diluted out		%	07/29/10		KCA	SW 8270
% 2-Fluorophenol	*Diluted out		%	07/29/10		KCA	SW 8270
% Nitrobenzene-d5	*Diluted out		%	07/29/10		KCA	SW 8270
% Phenol-d5	*Diluted out		%	07/29/10		KCA	SW 8270
% Terphenyl-d14	*Diluted out		%	07/29/10		KCA	SW 8270
<u>TCLP Volatiles</u>							
1,1-Dichloroethene	ND	5000	ug/L	07/30/10		H/J	SW8260
1,2-Dichloroethane	ND	5000	ug/L	07/30/10		H/J	SW8260
Benzene	50000	5000	ug/L	07/30/10		H/J	SW8260
Carbon tetrachloride	ND	5000	ug/L	07/30/10		H/J	SW8260
Chlorobenzene	ND	5000	ug/L	07/30/10		H/J	SW8260
Chloroform	ND	5000	ug/L	07/30/10		H/J	SW8260
Methyl ethyl ketone	ND	5000	ug/L	07/30/10		H/J	SW8260
Tetrachloroethene	ND	5000	ug/L	07/30/10		H/J	SW8260
Trichloroethene	ND	5000	ug/L	07/30/10		H/J	SW8260
Vinyl chloride	ND	5000	ug/L	07/30/10		H/J	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	07/30/10		H/J	SW8260
% Bromofluorobenzene	100		%	07/30/10		H/J	SW8260
% Dibromofluoromethane	101		%	07/30/10		H/J	SW8260
% Toluene-d8	92		%	07/30/10		H/J	SW8260

Project ID: WALGREEN 465 ALBANY SHAKER  
Client ID: DRUM

Phoenix I.D.: AZ28060

Parameter	Result	RL	Units	Date	Time	By	Reference
-----------	--------	----	-------	------	------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

**Comments:**

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above.  
The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

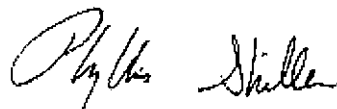
\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

\* For PCBs, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

August 09, 2010



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## QA/QC Report

August 09, 2010

### QA/QC Data

SDG I.D.: GAZ28060

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 158030, QC Sample No: AZ28374 (AZ28060)								
Mercury	BDL	NC	104	95.7	8.3	98.0	96.6	1.4



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## QA/QC Report

August 09, 2010

### QA/QC Data

SDG I.D.: GAZ28060

Parameter	Blank	Dup RPD	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 158153, QC Sample No: AZ28009 (AZ28060)								
Flash Point		NC	Passed					
QA/QC Batch 157998, QC Sample No: AZ28134 (AZ28060)								
Reactivity Cyanide	BDL	NC	90.4					
QA/QC Batch 158065, QC Sample No: AZ28375 (AZ28060)								
pH - Soil		0	101					



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## QA/QC Report

August 09, 2010

### QA/QC Data

SDG I.D.: GAZ28060

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 157825, QC Sample No: AZ26876 (AZ28060)							
<b>Polychlorinated Biphenyls</b>							
PCB-1016	ND	133	138	3.7	121	102	17.0
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	111	116	4.4	90	84	6.9
PCB-1262	ND						
PCB-1268	ND						
%DCBP (Surrogate Rec)	112	118	130	9.7	99	113	13.2
%TCMX (Surrogate Rec)	105	113	124	9.3	106	96	9.9

QA/QC Batch 157997, QC Sample No: AZ28060 (AZ28060)

### Semivolatiles

1,4-Dichlorobenzene	ND	102	100	2.0
2,4,5-Trichlorophenol	ND	92	93	1.1
2,4,6-Trichlorophenol	ND	93	91	2.2
2,4-Dinitrotoluene	ND	>130	>130	NC
2-Methylphenol (o-cresol)	ND	89	90	1.1
3&4-Methylphenol (m&p-cresol)	ND	90	89	1.1
Hexachlorobenzene	ND	100	102	2.0
Hexachlorobutadiene	ND	100	97	3.0
Hexachloroethane	ND	<5	<5	NC
Nitrobenzene	ND	98	99	1.0
Pentachlorophenol	ND	82	76	7.6
Pyridine	ND	121	98	21.0
% 2,4,6-Tribromophenol	117	118	*NR	NC
% 2-Fluorobiphenyl	92	90	*NR	NC
% 2-Fluorophenol	101	101	*NR	NC
% Nitrobenzene-d5	82	89	*NR	NC
% Phenol-d5	97	97	*NR	NC
% Terphenyl-d14	62	59	*NR	NC

#### Comment:

\*The MS/MSD could not be analyzed because of matrix interference.

## QA/QC Data

SDG I.D.: GAZ28060

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
-----------	-------	----------	-----------	------------	-------------	-----------------	-----

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

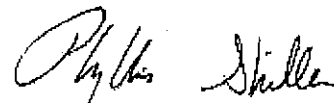
LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria



Phyllis Shiller, Laboratory Director

August 09, 2010

## Sample Criteria Exceedences Report

Requested Criteria:

GAZ28060

Sample No	LocCode	AcCode	Phoenix Analyte	Criteria Units	ST	State Category	Criteria Name	Result	RL	Factored Criteria	Factored RL Criteria	Analysis Units
AZ28060	MCES	\$TCLPSVR	2,4-Dinitrotoluene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	130	130	ug/L
AZ28060	MCES	\$TCLPSVR	Hexachlorobenzene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	130	130	ug/L
AZ28060	MCES	\$TCLPSVR	Hexachlorobutadiene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	500	500	ug/L
AZ28060	MCES	\$TCLPSVR	Hexachloroethane	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	3000	3000	ug/L
AZ28060	MCES	\$TCLPSVR	Nitrobenzene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	2000	2000	ug/L
AZ28060	MCES	\$TCLPSVR	2,4,6-Trichlorophenol	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	2000	2000	ug/L
AZ28060	MCES	\$TCLP-VOAR	Vinyl chloride	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	200	200	ug/L
AZ28060	MCES	\$TCLP-VOAR	1,1-Dichloroethene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	700	700	ug/L
AZ28060	MCES	\$TCLP-VOAR	Carbon tetrachloride	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	500	500	ug/L
AZ28060	MCES	\$TCLP-VOAR	Benzene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	50000	5000	500	500	ug/L
AZ28060	MCES	\$TCLP-VOAR	1,2-Dichloroethane	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	500	500	ug/L
AZ28060	MCES	\$TCLP-VOAR	Trichloroethene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	500	500	ug/L
AZ28060	MCES	\$TCLP-VOAR	Tetrachloroethene	mg/l	EPA	40 Cfr 261.24	Toxicity Characteristics	ND	5000	700	700	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





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## **NY Temperature Narration**

**August 09, 2010**

**SDG I.D.: GAZ28060**

---

The samples in this delivery group were received at 4C.  
(Note acceptance criteria is above freezing up to 6C)



**ATTACHMENT B**  
**TSDF WASTE PROFILE FORMS**

## WASTESTREAM INFORMATION PROFILE

				Disposal Code	
<input type="checkbox"/> Recertification					
Veolia ES Location				SYRACUSE NY OFFICE	SYRACUSE NY
Invoice Address				OFFICE	CITY ST
-----					
Veolia ES TSDF requested		Technology requested		Generator No. 571254	Generator EPA ID No. NYSCESSQ
1. Generator Name		WALGREEN COMPANY		Generator State No.	
Address		465 ALBANY SHAKER ROAD		State Wastestream No.	
City		ALBANY		State	NY
				Country	US
NAICS(SIC) Code		9999		Source	G09
				Origin	1
				Form	W301
				System Type	
-----					
2. Waste Name				NON HAZ SOIL & DEBRIS	
3. Process Generating Waste				Lab or Waste Area	
cleaning of drains (analysis on file)					
4. Shipping Name				NON RCRA AND DOT NON REGULATED SOLID	
Hazard Class				NONE UN/NA No. NONE PG	
RQ Des: 1.				RQ amt 0 lb Waste: N PIH: N IH: N DWW: N P: N	
DOT Des: 1.				2.	
5. Waste Codes				NONE	
Wastewater				Non Wastewater X Sub Category	
				Mix: N Sol: N	
-----					
6. Physical and chemical properties:					
pH		Specific Gravity		Flash Point(F)	
a < 2		a < .8		a < 80	
b 2 - 5		b .8 - 1.0		b 80 - 100	
c X 5 - 9		c X 1.0		c 100 - 140	
d 9 - 12.5		d 1.0 - 1.2		d 140 - 200	
e > 12.5		e > 1.2		e X > 200	
- exact		- exact		f no flash - exact	
				Solids	
				0 - 0% suspended 0 - 0% ash	
				0 - 0% settleable 0 - 0% water solubility	
				0 - 0% dissolved 0 - 0 BTU/lb	
				Free Liquid 0 - 0 %	
				VOC 0 - 0 %	
-----					
Physical State		Hazardous Characteristics		Odor	
s X solid		a air reactive		r radioactive or NRC regulated	
m semi-solid		w water reactive		s shock sensitive	
l liquid		c cyanide reactive		t temp sensitive	
p pumpable semi-solid		f sulfide reactive		m polymerization/monomer	
f flowable powder		e explosive		n OSHA carcinogen	
g gas		o oxidizing acid		i infectious	
a aerosol		p peroxide former		h inhalation hazard	
r pressurized liquid		Zone: -		Br .0 - .0 % Bromine	
d debris per 40 CFR 268.45				Cl .0 - .0 % Chlorine	
h sharps				F .0 - .0 % Fluorine	
q pumpable liquid				I .0 - .0 % Iodine	
-----					
Layers:   a multilayered:		b bi-layered:		c X single phase	
-----					
Top Layer		Second Layer		Bottom Layer	
Viscosity   high(syrup)		high(syrup)		high(syrup)	
by   medium(oil)		medium(oil)		medium(oil)	
Layer:   low(water)		low(water)		low(water)	
X solid		solid		solid	
-----					

WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm        HOC > 1000 ppm       

Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
SOIL	50.00	99.00   %
DEBRIS; PAPER, WOOD, PLASTIC	.00	1.00   %

Other:

8. Is the wastestream being imported into the USA? Yes        No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes        No X  
PCB Concentration       .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes        No X
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes        No X  
If yes:  
Is the wastestream subject to Notification/Control Requirements? Yes        No X  
Benzene Concentration       .00 ppm  
Does it contain >= 10% water? Yes        No X  
What is the TAB at your facility?       .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes        No X  
Volatile Organic Concentration       .00 ppmw  
CC Approved Analytical Method? Yes        No X  
Generator Knowledge? Yes        No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes        No X

14. Container Information :

Packaging:        Type/Size:         
       Type/Size:       

Shipping Frequency: Units 5.00 Per Day        Per Week        Per Month        Per Qtr        Per Year X One Time         
UOM DRUMS DESCRIPTION:       

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Brett Richer 224-723-4359 07/12/10  
Name (Print or Type) Phone Date  
[Signature] Environmental Compliance Mgr.  
Signature Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WASTESTREAM INFORMATION PROFILE

				Disposal Code	
Recertification					
Veolia ES Location		SYRACUSE NY OFFICE	SYRACUSE	NY	001 008
Invoice Address		OFFICE	CITY	ST	

Veolia ES TSDF requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 571254 Generator EPA ID No. NYSCE5QG

1. Generator Name WALGREEN COMPANY Generator State No. \_\_\_\_\_  
 Address 465 ALBANY SHAKER ROAD State Wastestream No. \_\_\_\_\_  
 City ALBANY State NY Country US ZIP 12211  
 NAICS(SIC) Code 9999 Source G11 Origin 1 Form W219 System Type \_\_\_\_\_

2. Waste Name NON HAZ WASH WATER Lab or Waste Area \_\_\_\_\_

3. Process Generating Waste  
washing of floor drain (analysis on file)

4. Shipping Name NON RCRA AND DOT NON REGULATED LIQUID

Hazard Class NONE UN/NA No. NONE PG \_\_\_\_\_ RQ amt 0 lb Waste: N PIH: N IH: N DW: N P: N

RQ Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

DOT Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

5. Waste Codes NONE

Wastewater \_\_\_\_\_ Non Wastewater X Sub Category \_\_\_\_\_ Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a _____ < 2	a _____ < .8	a _____ < 80	_____ 0 - 0% suspended _____ 0 - 0% ash
b _____ 2 - 5	b _____ .8 - 1.0	b _____ 80 - 100	_____ 0 - 0% settleable _____ 0 - 0% water solubility
c <u>X</u> _____ 5 - 9	c _____ 1.0	c _____ 100 - 140	_____ 0 - 0% dissolved _____ 0 - 0 BTU/lb
d _____ 9 - 12.5	d _____ 1.0 - 1.2	d _____ 140 - 200	
e _____ > 12.5	e _____ > 1.2	e _____ > 200	Free Liquid <u>100</u> - <u>100</u> %
_____ exact	_____ exact	f _____ no flash 200.0-300.0 exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s _____ solid	a _____ air reactive	r _____ radioactive or NRC regulated
m _____ semi-solid	w _____ water reactive	s _____ shock sensitive
l <u>X</u> _____ liquid	c _____ cyanide reactive	t _____ temp sensitive
p _____ pumpable semi-solid	f _____ sulfide reactive	m _____ polymerization/monomer
f _____ flowable powder	e _____ explosive	n _____ OSHA carcinogen
g _____ gas	o _____ oxidizing acid	i _____ infectious
a _____ aerosol	p _____ peroxide former	h _____ inhalation hazard
r _____ pressurized liquid	Zone: _____	
d _____ debris per 40 CFR 268.45		
h _____ sharps		
q _____ pumpable liquid		

Layers: | a \_\_\_\_\_ multilayered: | b \_\_\_\_\_ bi-layered: | c X single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	_____ high(syrup)	_____ high(syrup)	_____ high(syrup)	<u>VAR</u>
by	_____ medium(oil)	_____ medium(oil)	_____ medium(oil)	_____
Layer:	<u>X</u> low(water)	_____ low(water)	_____ low(water)	_____
	_____ solid	_____ solid	_____ solid	_____

WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm      HOC > 1000 ppm     

Chemical Composition {M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen}

Constituents	Ranges	Units
<u>    </u>   WATER	95.00	100.00   % }
<u>    </u>   DIRT	.00	2.00   % }

Other:

8. Is the wastestream being imported into the USA? Yes      No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes      No X  
PCB Concentration     .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes      No X
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes      No X  
If yes:  
Is the wastestream subject to Notification/Control Requirements? Yes      No X  
Benzene Concentration     .00 ppm  
Does it contain >= 10% water? Yes      No X  
What is the TAB at your facility?     .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes      No X  
Volatile Organic Concentration     .00 ppmw  
CC Approved Analytical Method? Yes      No X  
Generator Knowledge? Yes      No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes      No X

14. Container Information :

Packaging:      Type/Size:       
     Type/Size:     

Shipping Frequency: Units     .00 Per Day      Per Week      Per Month      Per Qtr      Per Year      One Time       
UOM      DESCRIPTION:     

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

BRETT RICHER 224-723-4359 07/12/10  
Name (Print or Type) Phone Date  
[Signature] Environmental Compliance Mgr.  
Signature Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

## WASTESTREAM INFORMATION PROFILE

Disposal Code

Recertification

Veolia ES Location SYRACUSE NY OFFICE SYRACUSE NY 001 008  
 Invoice Address OFFICE CITY ST

Veolia ES TSDF requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 571254 Generator EPA ID No. NYSCSQG

1. Generator Name WALGREEN COMPANY Generator State No. \_\_\_\_\_

Address 465 ALBANY SHAKER ROAD State Wastestream No. \_\_\_\_\_

City ALBANY State NY Country US ZIP 12211

NAICS(SIC) Code 9999 Source G11 Origin 1 Form W209 System Type \_\_\_\_\_

2. Waste Name PAINT IN CANS Lab or Waste Area \_\_\_\_\_

3. Process Generating Waste \_\_\_\_\_

unused paint in cans (1 gal-5 gal)

4. Shipping Name WASTE PAINT RELATED MATERIAL

Hazard Class 3 UN/NA No. UN1263 PG III RQ amt 0 lb Waste: Y PIH: N IH: N DWW: N P: N

RQ Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

DOT Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

5. Waste Codes D001 B \_\_\_\_\_

Wastewater \_\_\_\_\_ Non Wastewater X Sub Category D001-IL Mix: N Sol: N

## 6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>&lt; 2</u>	a <u>&lt; .8</u>	a <u>&lt; 80</u>	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>2 - 5</u>	b <u>.8 - 1.0</u>	b <u>X</u> <u>80 - 100</u>	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>X</u> <u>5 - 9</u>	c <u>1.0</u>	c <u>100 - 140</u>	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>0</u> BTU/lb
d <u>9 - 12.5</u>	d <u>1.0 - 1.2</u>	d <u>140 - 200</u>	
e <u>&gt; 12.5</u>	e <u>&gt; 1.2</u>	e <u>&gt; 200</u>	Free Liquid <u>0</u> - <u>0</u> %
<u>-</u> exact	<u>-</u> exact	f <u>no flash</u> <u>-</u> exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s <u>X</u> solid	a <u>air</u> reactive	r <u>radioactive</u> or NRC regulated
m <u>X</u> semi-solid	w <u>water</u> reactive	s <u>shock</u> sensitive
l <u>X</u> liquid	c <u>cyanide</u> reactive	t <u>temp</u> sensitive
p <u>pumpable</u> semi-solid	f <u>sulfide</u> reactive	m <u>polymerization/monomer</u>
f <u>flowable</u> powder	e <u>explosive</u>	n <u>OSHA</u> carcinogen
g <u>gas</u>	o <u>oxidizing</u> acid	i <u>infectious</u>
a <u>aerosol</u>	p <u>peroxide</u> former	h <u>inhalation</u> hazard
r <u>pressurized</u> liquid	Zone: <u>-</u>	
d <u>debris</u> per 40 CFR 268.45		
h <u>sharp</u> s		
q <u>pumpable</u> liquid		

Layers: | a multilayered: | b bi-layered: | c single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	<u>high</u> (syrup)	<u>high</u> (syrup)	<u>high</u> (syrup)	<u>VAR</u>
by	<u>medium</u> (oil)	<u>medium</u> (oil)	<u>medium</u> (oil)	
Layer:	<u>low</u> (water)	<u>low</u> (water)	<u>low</u> (water)	
	<u>solid</u>	<u>solid</u>	<u>solid</u>	



## WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm \_\_\_\_\_ HOC > 1000 ppm \_\_\_\_\_Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA Carcinogen]

## Constituents

## Ranges

## Units

[PAINTS, THINNERS, EPOXIES, RESINS, INKS, ETC... IN CANS] 100.00 100.00 t

## Other:

8. Is the wastestream being imported into the USA? Yes \_\_\_ No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes \_\_\_ No X  
PCB Concentration \_\_\_\_\_ .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes \_\_\_ No X
11. Is the wastestream from an industry regulated under Benzene NESHA? Yes \_\_\_ No X  
If yes:  
Is the wastestream subject to Notification/Control Requirements? Yes \_\_\_ No X  
Benzene Concentration \_\_\_\_\_ .00 ppm  
Does it contain >= 10% water? Yes \_\_\_ No X  
What is the TAB at your facility? \_\_\_\_\_ .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes \_\_\_ No X  
Volatile Organic Concentration \_\_\_\_\_ .00 ppmw  
CC Approved Analytical Method? Yes \_\_\_ No X  
Generator Knowledge? Yes \_\_\_ No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes \_\_\_ No X

## 14. Container Information :

Packaging: 551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DM  
551A2 Type/Size: DM 55 GAL OPEN HEAD (17H) DM

Shipping Frequency: Units 4.00 Per Day \_\_\_ Per Week \_\_\_ Per Month \_\_\_ Per Qtr \_\_\_ Per Year X One Time \_\_\_  
UOM DRUMS DESCRIPTION: \_\_\_\_\_

## 15. Additional Information :

## GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

BRETT RICHER

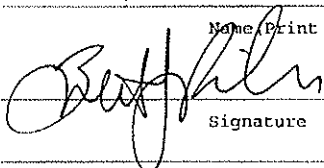
Name (Print or Type)

224-723-4359

Phone

07/12/10

Date



Signature

Environmental Compliance Mgr.

Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WASTESTREAM INFORMATION PROFILE

				Disposal Code
<input type="checkbox"/> Recertification				
Veolia ES Location	SYRACUSE NY OFFICE	SYRACUSE	NY	001 008
Invoice Address	OFFICE	CITY	ST	

Veolia ES TSDf requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 571254 Generator EPA ID No. NYSCSQG

1. Generator Name WALGREEN COMPANY Generator State No. \_\_\_\_\_  
 Address 165 ALBANY SHAKER ROAD State Wastestream No. \_\_\_\_\_  
 City ALBANY State NY Country US ZIP 12211  
 NAICS(SIC) Code 9999 Source G11 Origin 1 Form W801 System Type \_\_\_\_\_

2. Waste Name FLAMMABLE AEROSOLS Lab or Waste Area \_\_\_\_\_

3. Process Generating Waste  
haz. waste clean out

4. Shipping Name WASTE AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1L CAPACITY)  
 Hazard Class 2.1 UN/NA No. UN1950 PG \_\_\_\_\_ RQ amt 0 lb Waste: Y PIH: N IH: N DWH: N P: N  
 RQ Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_  
 DOT Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

5. Waste Codes D001  
 Wastewater \_\_\_\_\_ Non Wastewater X Sub Category D001-IG Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>  </u> < 2	a <u>  </u> < .8	a <u>  </u> < 80	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>  </u> 2 - 5	b <u>  </u> .8 - 1.0	b <u>X</u> 80 - 100	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>X</u> 5 - 9	c <u>  </u> 1.0	c <u>  </u> 100 - 140	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>0</u> BTU/lb
d <u>  </u> 9 - 12.5	d <u>  </u> 1.0 - 1.2	d <u>  </u> 140 - 200	
e <u>  </u> > 12.5	e <u>  </u> > 1.2	e <u>  </u> > 200	Free Liquid <u>0</u> - <u>0</u> %
<u>  </u> exact	<u>  </u> exact	f <u>  </u> no flash <u>  </u> exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics		Odor
s <u>  </u> solid	a <u>  </u> air reactive	r <u>  </u> radioactive or NRC regulated	a none <u>  </u>
m <u>  </u> semi-solid	w <u>  </u> water reactive	s <u>  </u> shock sensitive	b mild <u>  </u>
l <u>  </u> liquid	c <u>  </u> cyanide reactive	t <u>  </u> temp sensitive	c strong <u>  </u>
p <u>  </u> pumpable semi-solid	f <u>  </u> sulfide reactive	m <u>  </u> polymerization/monomer	describe _____
f <u>  </u> flowable powder	e <u>  </u> explosive	n <u>  </u> OSHA carcinogen	
g <u>X</u> gas	o <u>  </u> oxidizing acid	i <u>  </u> infectious	
a <u>  </u> aerosol	p <u>  </u> peroxide former	h <u>  </u> inhalation hazard	
r <u>  </u> pressurized liquid		Zone: <u>  </u>	
d <u>  </u> debris per 40 CFR 268.45			
h <u>  </u> sharps			
q <u>  </u> pumpable liquid			

Layers:	a <u>  </u> multilayered:	b <u>  </u> bi-layered:	c <u>  </u> single phase
	Top Layer	Second Layer	Bottom Layer
Viscosity	<u>  </u> high(syrup)	<u>  </u> high(syrup)	<u>  </u> high(syrup)
by	<u>  </u> medium(oil)	<u>  </u> medium(oil)	<u>  </u> medium(oil)
Layer:	<u>  </u> low(water)	<u>  </u> low(water)	<u>  </u> low(water)
	<u>  </u> solid	<u>  </u> solid	<u>  </u> solid

WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm      HOC > 1000 ppm     

Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
<u>                    </u>   VARIOUS FLAMMABLE AEROSOLS	<u>100.00</u>	<u>100.00</u>   %

Other:

8. Is the wastestream being imported into the USA? Yes      No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes      No X  
PCB Concentration           .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes      No X
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes      No X  
If yes:  
Is the wastestream subject to Notification/Control Requirements? Yes      No X  
Benzene Concentration           .00 ppm  
Does it contain >= 10% water? Yes      No X  
What is the TAB at your facility?           .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes      No X  
Volatile Organic Concentration           .00 ppmw  
CC Approved Analytical Method? Yes      No X  
Generator Knowledge? Yes      No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes      No X

14. Container Information :


Packaging:            Type/Size:             
           Type/Size:           

Shipping Frequency: Units 10.00 Per Day      Per Week      Per Month      Per Qtr      Per Year X One Time       
UOM DRUMS DESCRIPTION:           

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

BRETT RICHER 224-723-4359 07/20/10  
Name (Print or Type) Phone Date  
 ENVIRONMENTAL COMPLIANCE Mgr.  
Signature Title

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

## WASTESTREAM INFORMATION PROFILE

				Disposal Code	
[ ] Recertification					
Veolia ES Location		SYRACUSE NY OFFICE	SYRACUSE	NY	001 008
Invoice Address		OFFICE	CITY	ST	

Veolia ES TSDF requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 571254 Generator EPA ID No. NYSCE90G

1. Generator Name WALGREEN COMPANY Generator State No. \_\_\_\_\_  
 Address 465 ALBANY SHAKER ROAD State Wastestream No. \_\_\_\_\_  
 City ALBANY State NY Country US ZIP 12211  
 NAICS(SIC) Code 9999 Source G09 Origin 1 Form W219 System Type \_\_\_\_\_

2. Waste Name BENZENE AND WATER Lab or Waste Area \_\_\_\_\_

3. Process Generating Waste  
MAINTENANCE ACTIVITY IN GARAGE

4. Shipping Name WASTE BENZENE SOLUTION  
 Hazard Class 3 UN/NA No. UN1114 PG II RQ amt 0 lb Waste: Y PIH: N IH: N DWW: N P: N  
 RQ Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_  
 DOT Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_

5. Waste Codes D001 D018 \_\_\_\_\_  
 Wastewater \_\_\_\_\_ Non Wastewater X Sub Category D001-IL Mix: N Sol: Y

## 6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>  </u> < 2	a <u>  </u> < .8	a <u>  </u> < 80	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>  </u> 2 - 5	b <u>X</u> .8 - 1.0	b <u>  </u> 80 - 100	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>X</u> 5 - 9	c <u>  </u> 1.0	c <u>  </u> 100 - 140	<u>0</u> - <u>0</u> % dissolved <u>3000</u> - <u>10000</u> BTU/lb
d <u>  </u> 9 - 12.5	d <u>  </u> 1.0 - 1.2	d <u>  </u> 140 - 200	
e <u>  </u> > 12.5	e <u>  </u> > 1.2	e <u>X</u> > 200	Free Liquid <u>99</u> - <u>100</u> %
<u>  </u> - <u>  </u> exact	<u>  </u> - <u>  </u> exact	f <u>  </u> no flash <u>  </u> - <u>  </u> exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics	Odor
s <u>  </u> solid	a <u>  </u> air reactive	r <u>  </u> radioactive or NRC regulated
m <u>  </u> semi-solid	w <u>  </u> water reactive	s <u>  </u> shock sensitive
l <u>X</u> liquid	c <u>  </u> cyanide reactive	t <u>  </u> temp sensitive
p <u>  </u> pumpable semi-solid	f <u>  </u> sulfide reactive	m <u>  </u> polymerization/monomer
f <u>  </u> flowable powder	e <u>  </u> explosive	n <u>  </u> OSHA carcinogen
g <u>  </u> gas	o <u>  </u> oxidizing acid	i <u>  </u> infectious
a <u>  </u> aerosol	p <u>  </u> peroxide former	h <u>  </u> inhalation hazard
r <u>  </u> pressurized liquid	Zone: <u>  </u>	
d <u>  </u> debris per 40 CFR 268.45		
h <u>  </u> sharps		
q <u>  </u> pumpable liquid		

Layers:	a <u>  </u> multilayered:	b <u>  </u> bi-layered:	c <u>  </u> single phase
	Top Layer	Second Layer	Bottom Layer
Viscosity	<u>  </u> high(syrup)	<u>  </u> high(syrup)	<u>  </u> high(syrup)
by	<u>  </u> medium(oil)	<u>  </u> medium(oil)	<u>  </u> medium(oil)
Layer:	<u>  </u> low(water)	<u>  </u> low(water)	<u>  </u> low(water)
	<u>  </u> solid	<u>  </u> solid	<u>  </u> solid

WASTESTREAM INFORMATION PROFILE

Used oil y/n \_\_\_\_ HOC < 1000 ppm \_\_\_\_ HOC > 1000 ppm \_\_\_\_

Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHAP, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
T, U, B   BENZENE	.20	.20 %
WATER	99.80	99.80 %

Other:

8. Is the wastestream being imported into the USA? Yes \_\_\_\_ No X
9. Does the wastestream contain PCBs regulated by 40CFR? Yes \_\_\_\_ No X  
PCB Concentration \_\_\_\_ .00 ppm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes \_\_\_\_ No X
11. Is the wastestream from an industry regulated under Benzene NESHAP? Yes \_\_\_\_ No X  
If yes:  
Is the wastestream subject to Notification/Control Requirements? Yes \_\_\_\_ No X  
Benzene Concentration \_\_\_\_ .00 ppm  
Does it contain >= 10% water? Yes \_\_\_\_ No X  
What is the TAB at your facility? \_\_\_\_ .00 Mg/Yr
12. Is the wastestream subject to RCRA subpart CC controls? Yes \_\_\_\_ No X  
Volatile Organic Concentration \_\_\_\_ .00 ppmw  
CC Approved Analytical Method? Yes \_\_\_\_ No X  
Generator Knowledge? Yes \_\_\_\_ No X
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes \_\_\_\_ No X

14. Container Information :

Packaging: 551A1 Type/Size: DM 55 GAL CLOSED HEAD (17B) DM  
Type/Size: \_\_\_\_

Shipping Frequency: Units \_\_\_\_ 1.00 Per Day \_\_\_\_ Per Week \_\_\_\_ Per Month \_\_\_\_ Per Qtr \_\_\_\_ Per Year X One Time \_\_\_\_  
UOM DRUMS DESCRIPTION: \_\_\_\_

15. Additional Information :

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Brett Richer 847-315-4094 08/10/10  
Name (Print or Type) Phone Date  
Signature on File Signature Title  
Environmental Compliance Mgr.

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

WASTESTREAM INFORMATION PROFILE

				Disposal Code	
<input type="checkbox"/> Recertification					
Veolia ES Location		SYRACUSE NY OFFICE	SYRACUSE	NY	001 008
<input type="checkbox"/> Invoice Address		OFFICE	CITY	ST	

Veolia ES TSDF requested \_\_\_\_\_ Technology requested \_\_\_\_\_ Generator No. 571254 Generator EPA ID No. NYSCE5QG  
 1. Generator Name WALGREEN COMPANY Generator State No. \_\_\_\_\_  
 Address 465 ALBANY SHAKER ROAD State Wastestream No. \_\_\_\_\_  
 City ALBANY State NY Country US ZIP 12211  
 NAICS(SIC) Code 9999 Source G06 Origin 1 Form W209 System Type \_\_\_\_\_

2. Waste Name SERPILOC WHITE Lab or Waste Area \_\_\_\_\_  
 3. Process Generating Waste  
DISCARDED ACRYLIC EMULSION  
 4. Shipping Name NON HAZARDOUS MATERIAL  
 Hazard Class NONE UN/NA No. NONE PG \_\_\_\_\_ RQ amt 0 lb Waste: N PIH: N IH: N DWW: N P: N  
 RQ Des: 1. \_\_\_\_\_ 2. \_\_\_\_\_  
 DOT Des: 1. SERPILOC WHITE 2. \_\_\_\_\_  
 5. Waste Codes L NONE  
 Wastewater \_\_\_\_\_ Non Wastewater X Sub Category \_\_\_\_\_ Mix: N Sol: N

6. Physical and chemical properties:

pH	Specific Gravity	Flash Point(F)	Solids
a <u>  </u> < 2	a <u>  </u> < .8	a <u>  </u> < 80	<u>0</u> - <u>0</u> % suspended <u>0</u> - <u>0</u> % ash
b <u>  </u> 2 - 5	b <u>  </u> .8 - 1.0	b <u>  </u> 80 - 100	<u>0</u> - <u>0</u> % settleable <u>0</u> - <u>0</u> % water solubility
c <u>X</u> 5 - 9	c <u>  </u> 1.0	c <u>  </u> 100 - 140	<u>0</u> - <u>0</u> % dissolved <u>0</u> - <u>2999</u> BTU/lb
d <u>  </u> 9 - 12.5	d <u>  </u> 1.0 - 1.2	d <u>  </u> 140 - 200	
e <u>  </u> > 12.5	e <u>X</u> > 1.2	e <u>X</u> > 200	Free Liquid <u>0</u> - <u>0</u> %
<u>  </u> exact	<u>  </u> exact	f <u>  </u> no flash <u>  </u> exact	VOC <u>0</u> - <u>0</u> %

Physical State	Hazardous Characteristics		Odor
s <u>  </u> solid	a <u>  </u> air reactive	r <u>  </u> radioactive or NRC regulated	a none <u>X</u>
m <u>  </u> semi-solid	w <u>  </u> water reactive	s <u>  </u> shock sensitive	b mild <u>  </u>
l <u>X</u> liquid	c <u>  </u> cyanide reactive	t <u>  </u> temp sensitive	c strong <u>  </u>
p <u>  </u> pumpable semi-solid	f <u>  </u> sulfide reactive	m <u>  </u> polymerization/monomer	describe _____
f <u>  </u> flowable powder	e <u>  </u> explosive	n <u>  </u> OSHA carcinogen	
g <u>  </u> gas	o <u>  </u> oxidizing acid	i <u>  </u> infectious	
a <u>  </u> aerosol	p <u>  </u> peroxide former	h <u>  </u> inhalation hazard	
r <u>  </u> pressurized liquid		Zone: <u>  </u>	
d <u>  </u> debris per 40 CFR 268.45			
h <u>  </u> sharps			
q <u>  </u> pumpable liquid			

Layers: | a    multilayered: | b    bi-layered: | c X single phase |

	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	<u>  </u> high(syrup)	<u>  </u> high(syrup)	<u>  </u> high(syrup)	<u>VAR</u>
by	<u>  </u> medium(oil)	<u>  </u> medium(oil)	<u>  </u> medium(oil)	<u>  </u>
Layer:	<u>X</u> low(water)	<u>  </u> low(water)	<u>  </u> low(water)	<u>  </u>
	<u>  </u> solid	<u>  </u> solid	<u>  </u> solid	<u>  </u>

WASTESTREAM INFORMATION PROFILE

Used oil y/n N HOC < 1000 ppm        HOC > 1000 ppm       

7. Chemical Composition [M=Marine Pollutant, S=Severe Marine Pollutant, O=Ozone Depleting Substance,  
U=Underlying Hazardous Constituent, B=Benzene NESHA, T=TRI Chemical, C=OSHA Carcinogen]

Constituents	Ranges	Units
CALCIUM CARBONATE	1.00	10.00 %
T, ETHYLENE GLYCOL	1.00	10.00 %
TITANIUM DIOXIDE	1.00	10.00 %
WATER	10.00	25.00 %
2-PROPENOIC ACID, BUTYL ESTER, POLYMER WITH ETHENYL ACETATE	1.00	10.00 %
SERFILOC WHITE (MSDS ON FILE)	100.00	100.00 %

Other:

8. Is the wastestream being imported into the USA? Yes     No X

9. Does the wastestream contain PCBs regulated by 40CFR? Yes     No X

PCB Concentration       .00 ppm

10. Is the wastestream subject to the Marine Pollutant Regulations? Yes     No X

11. Is the wastestream from an industry regulated under Benzene NESHA? Yes     No X

If yes:

Is the wastestream subject to Notification/Control Requirements? Yes     No X

Benzene Concentration       .00 ppm

Does it contain >= 10% water? Yes     No X

What is the TAB at your facility?       .00 Mg/Yr

12. Is the wastestream subject to RCRA subpart CC controls? Yes     No X

Volatile Organic Concentration       .00 ppmw

CC Approved Analytical Method? Yes     No X

Generator Knowledge? Yes     No X

13. Is the wastestream from a CERCLA or state mandated cleanup? Yes     No X

14. Container Information :

Packaging:        Type/Size:      
       Type/Size:    

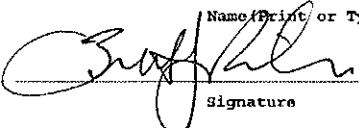
Shipping Frequency: Units       .00 Per Day     Per Week     Per Month     Per Qtr     Per Year     One Time      
UOM        DESCRIPTION:       

15. Additional Information :

WASTESTREAM INFORMATION PROFILE

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

<u>BRETT RICHER</u>	<u>847-315-4094</u>	<u>11/03/10</u>
<small>Name (Print or Type)</small>	<small>Phone</small>	<small>Date</small>
	<u>Environmental Compliance Mgr.</u>	
<small>Signature</small>	<small>Title</small>	

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.



**ATTACHMENT C**  
**SHIPPING DOCUMENTS**

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>NYCESQG</b>	2. Page 1 of <b>X2</b>	3. Emergency Response Phone <b>800-451-8984</b>	4. Manifest Tracking Number <b>000169085 VES</b>	
5. Generator's Name and Mailing Address <b>WALGREEN COMPANY</b> <b>106 Wilnot Rd. #1620</b>		Generator's Site Address (if different than mailing address) <b>465 Albany Shaker Rd.</b>				
Generator's Phone: <b>847-315-4094</b>		Deerfield IL 60015 <b>Albany Shaker Rd. NY</b>				
6. Transporter 1 Company Name <b>MC ENVIRONMENTAL SERVICES, INC.</b>		U.S. EPA ID Number <b>NYR000021071</b>				
7. Transporter 2 Company Name <b>Fitchard Cartage, Inc.</b>		U.S. EPA ID Number <b>NYR054126164</b>				
8. Designated Facility Name and Site Address <b>Veolia ES Technical Solutions</b> <b>W124 N9451 Boundary Rd</b>		U.S. EPA ID Number <b>WID003967148</b>				
Facility's Phone: <b>762-255-6655</b>		<b>MENASHONEE Falls WI 53051</b>				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	X	1. Waste Paint Regulated Material 3 UN1263 PG III	1	DF	00.50	P II
	X	2. Waste Aerosols, Flammable (each not exceeding 1 L capacity), 2.1, UN1950, Limited	1	DF	00.25	P
		3.				
	4.					
14. Special Handling Instructions and Additional Information <b>96-1) ERG # 128, 1416 DF Arrived Okeechobee, FL on 12/10/08</b> <b>Profile # 139430, CWDPPK3</b> <b>76-2A: CWDPEROL, ERG # 126</b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name <b>Juan Basile (URS)</b>						
Signature <b>Juan Basile (URS)</b> AS <b>Basile</b> , Day <b>20</b> , Year <b>10</b>						
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. * Port of entry/exit: _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name <b>Jim Shray</b> Signature <b>Jim Shray</b> Month <b>7</b> , Day <b>20</b> , Year <b>10</b>					
Transporter 2 Printed/Typed Name <b>Jim Shray</b> Signature <b>Jim Shray</b> Month <b>7</b> , Day <b>23</b> , Year <b>10</b>						
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____					
	Facility's Phone: _____					
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. <b>H141</b>		2. <b>H141</b>		3. _____		4. _____
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19a						
Printed/Typed Name <b>BEN FLECKENSTEIN</b> Signature <b>Ben Fleckenstein</b> Month <b>08</b> , Day <b>03</b> , Year <b>10</b>						

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM PHASE IV

Page 1 of 1

Generator Name: Walgreen Company EPA ID # NYCESQG State Manifest No. 000169085 UES

1. If waste is a wastewater (see 40 CFR 268.2) place "w" next to the applicable code(s)

Profile #

2. CODES WITH SUBCATEGORIES (place appropriate letter from section 8 before each code that applies) (See 40 CFR 268 for details)

<input checked="" type="checkbox"/> D001 HI-TOC	<input type="checkbox"/> D008 Lead acid batteries	<input type="checkbox"/> K069 Not Calcium Sulfate	<input type="checkbox"/> P065 Lo RMERC Res.	<input type="checkbox"/> U151 Hi Hg
<input checked="" type="checkbox"/> D001 Except HI-TOC	<input type="checkbox"/> D009 Organic Hg > 260ppm	<input type="checkbox"/> K071 Rmerc Res.	<input type="checkbox"/> P065 Not Inc./RMERC Res.	<input type="checkbox"/> U240 2, 4 D
<input type="checkbox"/> D003 Reactive Cyanide	<input type="checkbox"/> D009 Inorg. Hg > 260	<input type="checkbox"/> K071 Not Rmerc Res.	<input type="checkbox"/> P065 Hi Inc./RMERC Res.	<input type="checkbox"/> U240 2, 4 esters & Salts
<input type="checkbox"/> D003 Roactive Sulfide	<input type="checkbox"/> D009 Hg < 260	<input type="checkbox"/> K106 Lo Rmerc Res.	<input type="checkbox"/> P092 Lo Inc. Res.	
<input type="checkbox"/> D003 Explosive	<input type="checkbox"/> F025 Light ends	<input type="checkbox"/> K106 Not Rmerc Res.	<input type="checkbox"/> P092 Lo RMERC Res.	
<input type="checkbox"/> D003 Water Reactives	<input type="checkbox"/> F025 Spent filter	<input type="checkbox"/> K106 > 260 ppm Hg	<input type="checkbox"/> P092 Not Inc./RMERC Res.	
<input type="checkbox"/> D003 Unexp Ord. Emg	<input type="checkbox"/> K006 Hydrated	<input type="checkbox"/> P047 Salts	<input type="checkbox"/> P092 Hi Inc./RMERC Res.	
<input type="checkbox"/> D003 Other Reactives	<input type="checkbox"/> K008 Anhydrous	<input type="checkbox"/> P047 Nonsalts	<input type="checkbox"/> U151 Lo RMERC Res.	
<input type="checkbox"/> D006 Batteries	<input type="checkbox"/> K069 Calcium Sulfate	<input type="checkbox"/> P065 Lo Inc. Res.	<input type="checkbox"/> U151 Lo Not RMERC Res.	

The subcategory for D018-D043 waste is "treated in non-CWA/nonSDWA facility" unless the following box is checked: ☐ "treated in CWA/SDWA facility"

3. COMMON CODES (Place appropriate letter from section 8 before each code that applies)

<input type="checkbox"/> D002	<input type="checkbox"/> P012	<input type="checkbox"/> P030	<input type="checkbox"/> P051	<input type="checkbox"/> P098	<input type="checkbox"/> P105	<input type="checkbox"/> P205	<input type="checkbox"/> F006	<input type="checkbox"/> F007	<input type="checkbox"/> F008	<input type="checkbox"/> F009	<input type="checkbox"/> F010	<input type="checkbox"/> F011	<input type="checkbox"/> F012	<input type="checkbox"/> F019	<input type="checkbox"/> F039
<input type="checkbox"/> D004	<input type="checkbox"/> D005	<input type="checkbox"/> D006	<input type="checkbox"/> D007	<input type="checkbox"/> D008	<input type="checkbox"/> D009	<input type="checkbox"/> D010	<input type="checkbox"/> D011	<input type="checkbox"/> D012	<input type="checkbox"/> D013	<input type="checkbox"/> D014	<input type="checkbox"/> D015	<input type="checkbox"/> D016	<input type="checkbox"/> D017	<input type="checkbox"/> D018	<input type="checkbox"/> D019
<input type="checkbox"/> D020	<input type="checkbox"/> D021	<input type="checkbox"/> D022	<input type="checkbox"/> D023	<input type="checkbox"/> D024	<input type="checkbox"/> D025	<input type="checkbox"/> D026	<input type="checkbox"/> D027	<input type="checkbox"/> D028	<input type="checkbox"/> D029	<input type="checkbox"/> D030	<input type="checkbox"/> D031	<input type="checkbox"/> D032	<input type="checkbox"/> D033	<input type="checkbox"/> D034	<input type="checkbox"/> D035
<input type="checkbox"/> D036	<input type="checkbox"/> D037	<input type="checkbox"/> D038	<input type="checkbox"/> D039	<input type="checkbox"/> D040	<input type="checkbox"/> D041	<input type="checkbox"/> D042	<input type="checkbox"/> D043	<input type="checkbox"/> F001	<input type="checkbox"/> F002	<input type="checkbox"/> F003	<input type="checkbox"/> F004	<input type="checkbox"/> F005	<input type="checkbox"/> U002	<input type="checkbox"/> U003	<input type="checkbox"/> U006
<input type="checkbox"/> U007	<input type="checkbox"/> U044	<input type="checkbox"/> U061	<input type="checkbox"/> U072	<input type="checkbox"/> U080	<input type="checkbox"/> U108	<input type="checkbox"/> U117	<input type="checkbox"/> U122	<input type="checkbox"/> U123	<input type="checkbox"/> U136	<input type="checkbox"/> U154	<input type="checkbox"/> U188	<input type="checkbox"/> U213	<input type="checkbox"/> U220	<input type="checkbox"/> U226	<input type="checkbox"/> U279
															<input type="checkbox"/> K061

ADDITIONAL CODES (Enter all codes not identified above which are associated with waste)

4. USEPA HAZARDOUS WASTE CODE(S)	5. TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268.41, 268.43 OR SPECIFIED TECHNOLOGY BELOW)	6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW
D001		

To identify F039, or UHCs managed in non-CWA, use the "F039/Underlying Hazardous Constituents Form" provided and check here: ☐

If no UHCs are present upon generation check here: ☐ Check here if disposal facility will check for all UHCs ☐ (i.e. no UHC form required)

To list additional EPA waste code(s), use the supplemental sheet and check here: ☐ In lieu of supplemental sheet you may use multiple copies of this form.

7. SOLVENT CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents

<input type="checkbox"/> Acetone	<input type="checkbox"/> Benzene	<input type="checkbox"/> n-Butyl alcohol	<input type="checkbox"/> Carbon disulfide
<input type="checkbox"/> Carbon Tetrachloride	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> O-Cresol	<input type="checkbox"/> Crosois (m&p)
<input type="checkbox"/> Cyclohexanone	<input type="checkbox"/> o-Dichlorobenzene	<input type="checkbox"/> 2-Ethoxyethanol	<input type="checkbox"/> Ethyl acetate
<input type="checkbox"/> Ethyl benzene	<input type="checkbox"/> Ethyl ether	<input type="checkbox"/> Isobutanol	<input type="checkbox"/> Methanol
<input type="checkbox"/> Methylene chloride	<input type="checkbox"/> Methyl ethyl ketone	<input type="checkbox"/> Methyl isobutyl ketone	<input type="checkbox"/> Nitrobenzene
<input type="checkbox"/> 2-Nitropropane	<input type="checkbox"/> Pyridine	<input type="checkbox"/> Tetrachloroethylene	<input type="checkbox"/> Toluene
<input type="checkbox"/> 1,1,1 Trichloroethane	<input type="checkbox"/> 1, 1, 2-Trichloroethane	<input type="checkbox"/> 1, 1, 2-Trichloro, 1, 2, 2-trifluoroethane	<input type="checkbox"/> Trichloroethylene
<input type="checkbox"/> Trichloromonofluoromethane	<input type="checkbox"/> Xylenes		

8. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A. or ☒ RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

B.2 (CERTIFICATION REMOVED BY PHASE IV)

B.3 GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

☐ For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

E. WASTE NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: Joshua Basile, Agent for Walgreens

Title: Environmental Scientist - URS Date: 7/20/10

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>N/A</i>		Manifest Document No. <i>071210-1</i>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <i>Walgreen Company 106 Wilmut Road MS#1620 Deerfield, IL 60015</i>				465 Albany Shaker Rd <i>Albany, NY</i>			
4. Generator's Phone <i>(847) 315-4094</i>		5. Transporter 1 Company Name <i>MC Environmental Services, Inc.</i>		6. US EPA ID Number <i>NYR 000021071</i>		A. State Transporter's ID <i>SA-175</i>	
7. Transporter 2 Company Name <i>Freddie Cartage Inc</i>		8. US EPA ID Number <i>NYR 05412664</i>		B. Transporter 1 Phone <i>518-615-0349</i>		C. State Transporter's ID <i>NA</i>	
9. Designated Facility Name and Site Address <i>VEOLIA ES Technical Solutions, LLC 4301 Infirmary Road West Carrollton, OH 45449</i>		10. US EPA ID Number <i>OH0093945293</i>		D. Transporter 2 Phone <i>NA</i>		E. State Facility's ID	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. <i>NON-RCRA NON-DOT Regulated Solids</i> <i>None None</i>				5 DM		2000 P	
b. <i>NON-RCRA NON-DOT Regulated Liquids</i> <i>None None</i>				1 DM		50 G	
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>SRLLFSOLID-NH</i> <i>11a - Profile # 139408, 3X SS1A2DM in 8S1A2DM, 2X SS1A2DM</i> <i>11b - Profile # 139409, 1X SS1A2DM</i> <i>SRLLFLTR-NH arrived at Veolia Latham NY 7/20/10</i>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <i>Jackie Basile</i>				Signature <i>Jackie Basile</i>		Date <i>7/20/10</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Jim Shaw</i>		Date <i>7/20/10</i>	
Printed/Typed Name <i>Jim Shaw</i>				Signature <i>[Signature]</i>		Date <i>7/23/10</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature <i>[Signature]</i>		Date <i>7/23/10</i>	
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Date <i>7/23/10</i>	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <i>Lammy White</i>				Signature <i>Lammy White</i>		Date <i>7/20/10</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



## STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. \_\_\_\_\_

MC ENVIRONMENTAL SERVICES, INC.

Carrier No. 5A-175

Page 1 of 1

(Name of carrier)

(SCAC)

Date 07-12-10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:

Consignee Waste Management &amp; Recycling Products

Street PO Box 4243 405 C Street

City Schenectady State NY Zip Code 12304

FROM:  
Shipper

Walgreen Company

Street

465 Albany Shaker Rd

City

Coloine

State

NY

Zip Code

(800) 451-8984

24 hr. Emergency Contact Tel. No. \_\_\_\_\_

Route BESTWAY

Vehicle  
Number 304

No. of Units & Container Type	HMM	BASIC DESCRIPTION		TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
		Proper Shipping Name, Hazard Class UN or NA Number, Packing Group	or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group				
		Fluorescent Blue	—	29			
		BALLAST	—	12			

PLACARDS TENDERED: YES ☐ NO ☒

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."

(2) Where this applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature \_\_\_\_\_

REMIT  
C.O.D. TO:  
ADDRESS

COD

Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE:  
PREPAID ☐  
COLLECT ☐TOTAL  
CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES

FREIGHT PREPAID ☐ Check box if charges  
except when box at are to be  
right is checked ☐ collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Joshii Basile (UPS) AS Agent for Walgreens

PER \_\_\_\_\_

CARRIER MC ENVIRONMENTAL SERVICES, INC.

PER \_\_\_\_\_ 1

DATE 07-20-10

Permanent post-office address of shipper.

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USING SOY INK

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ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

MC ENVIRONMENTAL SERVICES, INC.

Shipper No. \_\_\_\_\_

Carrier No. **5A-175**

Date **7/20/10**

Page **1** of **1**

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:  
Consignee **New York Fire Signal Corporation**  
Street **4 Glass Falls Tech Park Suite 1**  
City **Glass Falls** State **NY** Zip Code **12801**

FROM:  
Shipper **Walgreen Company**  
Street **465 Albany Shaker Road**  
City **Colonia** State **NY** Zip Code \_\_\_\_\_  
24 hr. Emergency Contact Tel. No. **(800) 451-8984**

Route **BESTWAY**

Vehicle Number **306**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<b>3</b>		<b>Fire Extinguishers</b>				

PLACARDS TENDERED: YES ☐ NO ☒

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."  
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature \_\_\_\_\_

REMIT  
C.O.D. TO:  
ADDRESS

**COD**

Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE:  
PREPAID ☐  
COLLECT ☐

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID ☒ Check box if charges are to be collect  
except when box at right is checked ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **As Agent of**  
PER **Joe Co**

CARRIER **MC ENVIRONMENTAL SERVICES, INC.**

PER **WYES**

DATE **7/20/10**

Permanent post-office address of shipper.



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYCESQG	2. Page 1 of 1	3. Emergency Response Phone 800-451-8984	4. Manifest Tracking Number 000169088 VES	
5. Generator's Name and Mailing Address Walgreen Company 106 Wilnot Rd - MS #1620 Deerfield, IL 60015		Generator's Site Address (if different than mailing address) 465A Albany-Shaker Rd. Albany, NY		FOLD LABEL AT LINE. AP AT RIGHT, TO BACKSIDE HAZARDOUS MATERIAL BILL--STICKY PORTIO ONLY--SO TAB STICKS O AND IS READABLE FRO FRONTSIDE.		
Generator's Phone: 847-315-4094				U.S. EPA ID Number NYR000021071		
6. Transporter 1 Company Name MC Environmental Services, Inc.				U.S. EPA ID Number NYR000021071		
7. Transporter 2 Company Name Freahold Cartage Inc				U.S. EPA ID Number NYR000021071		
8. Designated Facility Name and Site Address Veolia ES Technical Solutions, LLC 4301 Infirmary Rd. West Carrollton, OH 45449				U.S. EPA ID Number OHD093945293		
Facility's Phone: 937-859-6101				OHD093945293		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. Waste Benzene Solution 3 UN114 PGII	1 DF		55	G	D001 D018
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 9a1. ERG #130 Profile # 146623 Arrived at Veolia Latham NY 8/13/10 Approval #: SRREUELS#6 Emergency Contact: M. Craft						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name David Orton		Signature David Orton		Month Day Year 08/13/10		
16. International Shipments <input type="checkbox"/> Import to U.S. Transporter signature (for exports only):		<input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:				
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name FRANK A. WAITE		Signature Frank A. Waite		Month Day Year 08/13/10		
Transporter 2 Printed/Typed Name Bruce Guernieri		Signature Bruce Guernieri		Month Day Year 08/18/10		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H111 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Denny White						
Signature Denny White		Month Day Year 08/20/10				



LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM PHASE IV

Page 1 of 1

Generator Name: Walgreen Company EPA ID # NYCESQG State Manifest No. 000169087

1. If waste is a wastewater (see 40 CFR 268.2) place "w" next to the applicable code(s)

Profile # 146623

2. CODES WITH SUBCATEGORIES (place appropriate letter from section 8 before each code that applies) (See 40 CFR 268 for details)

☒ D001 Hi-TOC ☐ D008 Lead acid batteries ☐ K069 Not Calcium Sulfate ☐ P065 Lo RMERC Res. ☐ U151 Hi Hg  
☐ D001 Except Hi-TOC ☐ D009 Organic Hg > 260ppm ☐ K071 Rmerc Res. ☐ P065 Not Inc./RMERC Res. ☐ U240 2, 4 D  
☐ D003 Reactive Cyanide ☐ D009 Inorg. Hg > 260 ☐ K071 Not Rmerc Res. ☐ P065 Hi Inc./RMERC Res. ☐ U240 2, 4 esters & Salts  
☐ D003 Reactive Sulfide ☐ D009 Hg < 260 ☐ K106 Lo Rmerc Res. ☐ P092 Lo Inc. Res.  
☐ D003 Explosive ☐ F025 Light ends ☐ K106 Not Rmerc Res. ☐ P092 Lo RMERC Res.  
☐ D003 Water Reactives ☐ F025 Spent filter ☐ K106 > 260 ppm Hg ☐ P092 Not Inc./RMERC Res.  
☐ D003 Unexp Ord. Emg ☐ K006 Hydrated ☐ P047 Salts ☐ P092 Hi Inc./RMERC Res.  
☐ D003 Other Reactives ☐ K006 Anhydrous ☐ P047 Nonsalts ☐ U151 Lo RMERC Res.  
☐ D006 Batteries ☐ K069 Calcium Sulfate ☐ P065 Lo Inc. Res. ☐ U151 Lo Not RMERC Res.

The subcategory for D018-D043 waste is "treated in nonCWA/nonSDWA facility" unless the following box is checked: ☐ "treated in CWA/SDWA facility"

3. COMMON CODES (Place appropriate letter from section 8 before each code that applies)

☐ D002 ☐ P012 ☐ P030 ☐ P051 ☐ P098 ☐ P105 ☐ P205 ☐ F006 ☐ F007 ☐ F008 ☐ F009 ☐ F010 ☐ F011 ☐ F012 ☒ F019 ☐ F039  
☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011 ☐ D012 ☐ D013 ☐ D014 ☐ D015 ☐ D016 ☐ D017 ☐ D018 ☐ D019  
☐ D020 ☐ D021 ☐ D022 ☐ D023 ☐ D024 ☐ D025 ☐ D026 ☐ D027 ☐ D028 ☐ D029 ☐ D030 ☐ D031 ☐ D032 ☐ D033 ☐ D034 ☐ D035  
☐ D036 ☐ D037 ☐ D038 ☐ D039 ☐ D040 ☐ D041 ☐ D042 ☐ D043 ☐ F001 ☐ F002 ☐ F003 ☐ F004 ☐ F005 ☐ U002 ☐ U003 ☐ U006  
☐ U007 ☐ U044 ☐ U061 ☐ U072 ☐ U080 ☐ U108 ☐ U117 ☐ U122 ☐ U123 ☐ U136 ☐ U154 ☐ U188 ☐ U213 ☐ U220 ☐ U226 ☐ U279 ☐ K061

ADDITIONAL CODES (Enter all codes not identified above which are associated with waste)

4. USEPA HAZARDOUS WASTE CODE(S)	5. TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268.41, 268.43 OR SPECIFIED TECHNOLOGY BELOW)	6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW

To identify F039, or UHCs managed in non-CWA, use the "F039/Underlying Hazardous Constituents Form" provided and check here: ☐

If no UHCs are present upon generation check here: ☒ Check here if disposal facility will check for all UHCs ☐ (i.e. no UHC form required)

To list additional EPA waste code(s), use the supplemental sheet and check here: ☐ In lieu of supplemental sheet you may use multiple copies of this form.

7. SOLVENT CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents

☐ Acetone ☐ Benzene ☐ n-Butyl alcohol ☐ Carbon disulfide  
☐ Carbon Tetrachloride ☐ Chlorobenzene ☐ O-Cresol ☐ Cresols (m&p)  
☐ Cyclohexanone ☐ o-Dichlorobenzene ☐ 2-Ethoxyethanol ☐ Ethyl acetate  
☐ Ethyl benzene ☐ Ethyl ether ☐ Isobutanol ☐ Methanol  
☐ Methylene chloride ☐ Methyl ethyl ketone ☐ Methyl isobutyl ketone ☐ Nitrobenzene  
☐ 2-Nitropropane ☐ Pyridine ☐ Tetrachloroethylene ☐ Toluene  
☐ 1,1,1 Trichloroethane ☐ 1, 1, 2-Trichloroethane ☐ 1, 1, 2-Trichloro, 1, 2, 2-trifluoroethane ☐ Trichloroethylene  
☐ Trichloromonofluoromethane ☐ Xylenes

8. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A. or ☒ RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

B.2 (CERTIFICATION REMOVED BY PHASE IV)

B.3 GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 268.42, Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

☐ For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

E. WASTE NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: *[Signature]* Authorized agent for Walgreen Company

Title: Sr. EHS Engineer Date: 08/13/10



## NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on site (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>N/A</i>		Manifest Document No. <i>110510-1</i>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <i>Walgreens Company 106 Wilnot Rd. MS#1620 Deerfield IL. 60015</i>				465 Albany Shaker Rd. <i>Albany, NY</i>			
4. Generator's Phone <i>(847) 315-4094</i>				5. Transporter 1 Company Name <i>MC Environmental Services, Inc.</i>			
6. US EPA ID Number <i>NYR000021071</i>				A. State Transporter's ID <i>SA-175</i>			
7. Transporter 2 Company Name <i>United Industrial Services</i>				B. Transporter 1 Phone <i>518-613-0349</i>			
8. US EPA ID Number <i>CTD021816884</i>				C. State Transporter's ID <i>V80690CT</i>			
9. Designated Facility Name and Site Address <i>Bridgeport United Recycling 50 Cross Street Bridgeport, CT. 06610</i>				D. Transporter 2 Phone <i>203-386754</i>			
10. US EPA ID Number <i>CTD002593887</i>				E. State Facility's ID			
11. WASTE DESCRIPTION				F. Facility's Phone <i>800-404-4408</i>			
a. <i>State Regulated Waste</i>				12. Containers		13. Total Quantity	
None				No. Type		Unit Wt/Vol.	
None				1 CROS 1 DM		300 P	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above <i>CROS</i>				H. Handling Codes for Wastes Listed Above <i>H41</i>			
15. Special Handling Instructions and Additional Information <i>Profile #1407DN4 SANJ1104100079-101</i>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <i>Jennifer Gilles</i>		Signature <i>Jennifer Gilles as agent for Walgreens</i>		Date <i>11/5/10</i>		Month Day Year <i>11 5 10</i>	
Printed/Typed Name <i>FRANK A. WAITE</i>		Signature <i>Frank A. Waite</i>		Date <i>11/5/10</i>		Month Day Year <i>11 5 10</i>	
Printed/Typed Name <i>Frank Day</i>		Signature <i>Frank Day</i>		Date <i>11/8/10</i>		Month Day Year <i>11 8 10</i>	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <i>Domenic Duquett</i>		Signature <i>Domenic Duquett</i>		Date <i>11/10/10</i>		Month Day Year <i>11 10 10</i>	

NON-HAZARDOUS WASTE

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>N/A</i>		Manifest Document No. <i>110510-2</i>	2. Page 1 of <i>1</i>
3. Generator's Name and Mailing Address <i>Walgreens Company 106 Wilnot Rd MS#1620 Deerfield, IL 60015</i>				465 Albany Shaker Rd Albany, NY	
4. Generator's Phone <i>(847) 315-4094</i>					
5. Transporter 1 Company Name <i>MC Environmental Services, Inc</i>		6. US EPA ID Number <i>NY2000021071</i>		A. State Transporter's ID <i>SA-175</i>	
7. Transporter 2 Company Name <i>Freehold Cartage Inc</i>		8. US EPA ID Number <i>ND054126164</i>		B. Transporter 1 Phone <i>518-615-0349</i>	
9. Designated Facility Name and Site Address <i>VEOLIA ES Technical Solutions, LLC 4301 Infirmary Road WEST CARROLLTON OH, 145449</i>		10. US EPA ID Number <i>OH0093945743</i>		C. State Transporter's ID <i>NA</i>	
				D. Transporter 2 Phone <i>NA</i>	
				E. State Facility's ID <i>NA</i>	
				F. Facility's Phone <i>937-859-6101</i>	
11. WASTE DESCRIPTION				12. Containers	13. Total Quantity
				No.	Unit
a. <i>Non-Hazardous Material</i>					
<i>None</i>				<i>1 DE</i>	<i>5 G</i>
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information <i>WIP 166381</i> <i>Approval Code: SRR LF</i> <i>1X05142</i> <i>Serpilac White</i> <i>LIQ - NH</i> <i>APPROVED VEOLIA COLONIE NY 11/5/10 B, SH</i>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>Jennifer Gillies</i>				Signature <i>Jennifer Gillies as agent for Walgreens</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date <i>11/5/10</i>	
Printed/Typed Name <i>FRANK A. WAITE</i>				Signature <i>Frank A. Waite</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date <i>11/5/10</i>	
Printed/Typed Name <i>Charles Gray</i>				Signature <i>Charles Gray</i>	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <i>Tammy White</i>				Signature <i>Tammy White</i>	
				Date <i>11/12/10</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



ORIGINAL — NOT NEGOTIABLE

Carrier No. 5A-175

Carrier No. 5A-175

(Name of carrier)

( SCAC)

Date 11/13/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec. 1.

Street *7140 1/2 Ave Rd*

City Lake George State NY Zip Code 12845

FROM: *W. J. ...*  
Shipper

Street 415 Albemarle Rd

City Albany State NY Zip Code 12212

24 hr. Emergency Contact Tel. No. (800) 431-8984

Route	BESTWAY	Vehicle Number	308
-------	---------	----------------	-----

No. of Units & Container Type	HWM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1		Window Air Conditioner for Recycling				
			max Ron			
			Received			
				11/13/10		

PLACARDS TENDERED: YES ☐ NO ☒

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_.

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) **Commodities** requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(c) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT  
C.O.D. TO:  
ADDRESS

Amt: \$

COD

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE:  
PREPAID ☐  
COLLECT ☐ \$

TOTAL CHARGES	\$
---------------	----

### FREIGHT CHARGES

**FREIGHT PREPAID** Check box if charges  
except when box at are to be  
right is checked ☐ collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted hereunder and condition of contents of packages unknown, marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if in its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier to deliver or any of: said property over all or any portion of said route to des-

tion and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

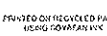
PER

CARRIER MC ENVIRONMENTAL SERVICES, INC.

PER

DATE \_\_\_\_\_

Permanent post-office address of shipper.



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**ATTACHMENT D**  
**SPILL CLOSURE RECORD**



NEW YORK STATE  
DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION

## Spill Incidents Database Search Details

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### Spill Record

#### Administrative Information

**DEC Region:** 4

**Spill Number:** 1006400

#### Spill Date/Time

**Spill Date:** 09/13/2010 **Spill Time:** 10:15:00 AM

**Call Received Date:** 09/13/2010 **Call Received Time:** 12:02:00 PM

#### Location

**Spill Name:** DEMOLISHED BUILDING

**Address:** 253 OSBORNE RD

**City:** LOUDONVILLE **County:** Albany

#### Spill Description

Material Spilled	Amount Spilled	Resource Affected
------------------	----------------	-------------------

Waste Oil/Used Oil	2.00 Gal.	Unknown
--------------------	-----------	---------

**Cause:** Abandoned Drums  
**Source:** Commercial/Industrial  
**Waterbody:**

## Record Close

**Date Spill Closed:** 09/13/2010

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)

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# New York State Department of Environmental Conservation

## Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • Fax: (518) 357-2398

Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Peter M. Iwanowicz  
Acting Commissioner

January 4, 2011

Walgreen Company  
Corporate Offices  
106 Wilmot Road, MS #1620  
Deerfield, Illinois 60015  
Attn: Mr. Brett Richer

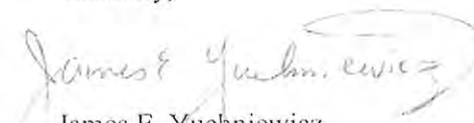
Re: Former G & G Service Center  
465 Albany-Shaker Road  
Colonic, NY  
Spill #06-03567

Dear Mr. Richer:

This office has received of the December 2010-Remedial Action (RA) Completion Report submitted to this office by your consultant, URS Corporation. The RA report documents the soil excavation work completed at the spill site. Based on the remedial activities and the results of the post-excavation confirmation samples, this office has closed Spill No. 06-03567, No Further Action Required. Note, however, that low levels of VOC contaminants have been identified beneath the property located at 253 Osborne Road, Colonie.

This office reserves the right to require additional remedial work in relation to this spill, if in the future it determines that further action is necessary. If you have any additional questions in these matters, please contact me at the letterhead address, by telephone at 518.357.2393, or via email at [jeyuchni@gw.dec.state.ny.us](mailto:jeyuchni@gw.dec.state.ny.us).

Sincerely,

  
James E. Yuchniewicz  
Sr. Engineering Geologist  
Div. of Environmental Remediation  
Region 4

JH:Y:lg\letter.sp0603567.2011-01-04.closure

cc: Galina Georgiew, URS Corporation  
Jennifer Gillies, URS Corporation

ccc: Keith Goertz, DEC  
Chris O'Neill, DEC



December 22, 2010

Mr. Brett J. Richer  
Environmental Compliance Manager  
Walgreen Company  
106 Wilmot Road MS#1620  
Deerfield, Illinois 60015

**VIA ELECTRONIC MAIL: [brett.richer@walgreens.com](mailto:brett.richer@walgreens.com)**

**Re: Summary Report  
Segregation of Soil and Concrete Footings during Post-Demolition Activities  
Proposed Walgreens Store #11902  
465 and 467 Albany-Shaker Road, and 253 Osborne Road, Colonie, New York**

Dear Mr. Richer:

URS Corporation (URS) is pleased to present this report to the Walgreen Company (Walgreens) to summarize the segregation of soil and concrete footings during the post-demolition activities that occurred at 465 Albany-Shaker Road, 467 Albany-Shaker Road, and 253 Osborne Road in Colonie, New York. Walgreens requested that URS be on-site during the post-demolition activities at these locations to ensure that the demolition contractor would not improperly transport potentially impacted soil and/or concrete off-site for disposal.

### **253 Osborne Road**

On August 16, 2010, Dan's Hauling, the Walgreens' demolition contractor, indicated that there was an odor encountered during the removal of the concrete foundation footings for the former building structure at the 253 Osborne Road parcel. The former building maintained a dry-cleaning operation and a Goodwill donation center. There is currently an open New York State Department of Environmental Conservation spill number, 0702543, associated with the 253 Osborne Road parcel.

The former building was U-shaped, with the opening of the U-shape facing to the east. The basement and the northern half of the building foundation of the former structure, except for a portion of the foundation along the western wall, were removed by Dan's Hauling prior to URS mobilizing to the site. URS began monitoring the remainder of the excavation activities on August 17, 2010. URS used a photoionization detector (PID) to determine if the soil and/or concrete footings were impacted prior to disposal. URS requested that Dan's Hauling segregate any soil and/or concrete with elevated PID readings from the remainder of the construction and demolition (C&D) debris.

Elevated PID readings were detected on the foundation footings along the southwestern wall of the former U-shaped structure. Elevated PID readings were also detected on the concrete footings in the middle of the former building footprint. During the excavation activities, URS observed a metal cover to an unknown structure in the middle of the former building footprint. URS did not observe any signs of an underground storage tank or septic tank during the excavation activities. URS ensured that the impacted concrete was properly segregated and that the soil was left in place. The segregated concrete was placed on polyethylene sheeting and covered. PID readings in the void spaces between the pieces of the concrete footings that were staged on polyethylene sheeting ranged from 30 parts per million (ppm) to 75 ppm. Walgreens indicated to URS that it is the responsibility of the previous owner to sample the segregated



concrete for waste characterization prior to disposal. To date, URS is unaware if the sampling has occurred. Photographs of the excavation activities are provided in Attachment A.

**467 Albany-Shaker Road**

On September 15 and 16, 2010, Dan's Hauling conducted the excavation of the concrete foundation footings. URS monitored the soil and concrete footings with a PID during the excavation activities. The PID readings were 0.0 ppm. All of the concrete footings were disposed of as C&D debris by Dan's Hauling.

**465 Albany-Shaker Road**

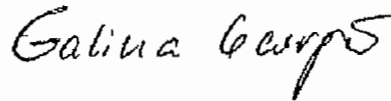
On October 5, 2010, Aztech Technologies conducted the excavation of the concrete foundation footings. URS monitored the soil and concrete footings with a PID during the excavation activities. The PID readings were 0.0 ppm. All of the concrete footings were disposed of as C&D debris by Dan's Hauling. Photographs of the excavation activities are provided in Attachment A.

If you have any questions or require additional information, please do not hesitate to call Ms. Galina Georgiew at (312) 596-6775.

Sincerely,  
URS CORPORATION

Handwritten signature of David Meiri, for JG.

Jennifer Gillies  
Project Geologist

Handwritten signature of Galina Georgiew.

Galina Georgiew, P.G.  
Principal Geologist

Attachments:  
Attachment A – Photographic Log

cc: David Meiri, URS Corporation

**ATTACHMENT A**  
**PHOTOGRAPHIC LOG**



## PHOTOGRAPHIC LOG

<b>Client Name:</b> Walgreens		<b>Site Location:</b> 253 Osborne Road, Colonie, NY	<b>Project No.</b> 25367474
<b>Photo No.</b> 1	<b>Date:</b> 8/18/10	 18/08/2010	
<b>Description:</b>  View of 253 Osborne Road (foreground-demolished) and 467 Albany-Shaker Road prior to demolition (background).			

<b>Photo No.</b> 2	<b>Date:</b> 8/18/10	 18/08/2010
<b>Description:</b>  View of the remaining foundation of 253 Osborne Road along the western wall of the former building.  Elevated PID readings were observed along the western wall.		





## PHOTOGRAPHIC LOG

<b>Client Name:</b> Walgreens		<b>Site Location:</b> 253 Osborne Road, Colonie, NY	<b>Project No.</b> 25367474
<b>Photo No.</b> 3	<b>Date:</b> 8/18/10		
<b>Description:</b>  View of 253 Osborne Road during removal of the concrete footings. Elevated PID readings were observed along the western wall.			

<b>Photo No.</b> 4	<b>Date:</b> 8/18/10		
<b>Description:</b>  View of the 253 Osborne Road parcel. Elevated PID readings were observed in the middle of the former Building footprint (to the right of the excavator in the photo).			





## PHOTOGRAPHIC LOG

<b>Client Name:</b> Walgreens		<b>Site Location:</b> 253 Osborne Road, Colonie, NY	<b>Project No.</b> 25367474
<b>Photo No.</b> 5	<b>Date:</b> 8/20/10		
<b>Description:</b>  View of segregated concrete foundation footings that had elevated PID readings.			

<b>Photo No.</b> 6	<b>Date:</b> 8/20/10	
<b>Description:</b>  View of staining on concrete block wall and foundation footing.		




## PHOTOGRAPHIC LOG

<b>Client Name:</b> Walgreens		<b>Site Location:</b> 253 Osborne Road, Colonie, NY	<b>Project No.</b> 25367474
<b>Photo No.</b> 7	<b>Date:</b> 8/20/10		
<b>Description:</b>  View of segregated concrete footings from middle of former building footprint that had elevated PID readings. The concrete footings were staged on polyethylene sheeting and covered.			





## PHOTOGRAPHIC LOG

<b>Client Name:</b> Walgreens		<b>Site Location:</b> 465 Albany-Shaker Road, Colonie, NY	<b>Project No.</b> 25367474
<b>Photo No.</b> 8	<b>Date:</b> 10/5/10		
<b>Description:</b>  View of concrete footing removal activities at 465 Albany-Shaker Road.			

<b>Photo No.</b> 9	<b>Date:</b> 10/5/10		
<b>Description:</b>  View of concrete footing removal activities at 465 Albany-Shaker Road.			

**Table 1**  
**October 2010 Staged Concrete and Soil Analytical Results**  
**253 Osborne Road**  
**NYSDEC HW#401056**

		Staged Materials Closest to Osborne Road							
VOC	Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	Concrete Chip Samples					Soil Samples		
		CC-4	CC-5	CG-6	CG-7	CC-15	SC-1	SG-2	SG-3
Tetrachloroethene	1,300	ND	ND	ND	ND	ND	ND	8.6	3.2 J
Methylene Chloride	50	3.2 J, B	3.4 J, B	5.5 J	4.0 J, B	3.5 J, B	ND	3.5 J	ND
Acetone	50	20 J	10 J	3.0 J, B	36	19 J	ND	ND	ND

		Small Staged Materials Pile	
VOC	Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	Concrete Chip Samples	
		CG-8	CG-9
Tetrachloroethene	1,300	ND	ND
Methylene Chloride	50	3.0 J, B	5.4
Acetone	50	9.1 J	ND

		Staged Materials Closest to 469-471 Albany-Shaker Road				
VOC	Table 375-6.8(a) Unrestricted Use Soil Cleanup Objectives	Concrete Chip Samples				
		CC-10	CC-11	CC-12	CC-13	CC-14
Tetrachloroethene	1,300	ND	ND	ND	ND	ND
Methylene Chloride	50	3.6 J, B	3.3 J, B	4.0 J, B	3.1 J, B	4.1 J, B
Acetone	50	9.5 J	10 J	16 J	18 J	9.5 J

All concentrations are in micrograms per kilogram (ug/kg) or parts per billion (ppb).

Bolded values are above the Part 375 unrestricted use soil cleanup objectives.

ND = non-detect at the method detection limit (MDL), which varies per compound.

J = laboratory data qualifier indicating analyte detected at level less than reporting limit (RL) and greater than or equal to the method detection limit (MDL).

B = laboratory data qualifier indicating compound was detected in method blank.

All samples were collected on October 8, 2010 and analyzed using USEPA Method 8260. Only detectable compounds reported.



## **Photographs of Staged Foundation Materials**

**Staged Soil and Concrete Closest to Osborne Road**



Photo 1 - Staged concrete and soil closest to Osborne Road.



Photo 2 - Staged concrete and soil closest to Osborne Road.

**Small Staged Pile**





Photo 3 - Small pile of staged concrete debris.



Photo 4 - Small pile of staged concrete debris.

**Staged Concrete Debris Closest to 469-471 Albany Shaker Road**





Photo 5 - Staged concrete and cinder block closest to 469-471 Albany Shaker Rd.



Photo 6 - Staged concrete and cinder block closest to 469-471 Albany Shaker Rd.

## **Appendix 14**

### **Summer 2011 DEC Off-Site Characterization Sampling Result Summary**





TRANSMITTAL

Via: UPS

February 2, 2012

Mr. Christopher O'Neil, P.E.  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region 4  
1130 N. Westcott Road  
Schenectady, New York 12306-2014

**Subject: FINAL Site Characterization Report for 253 Osborne Road Site  
Loudonville, Albany County, New York**

These are:

☒ Per your request

☐ For your review/comment

☒ For your files

☐ For use on job

☐ For your approval/signature

☐ \_\_\_\_\_

Chris,

Enclosed is 1 hard copy and 2 CD's of the final report for the 253 Osborne Road Site Characterization project. If you have any questions or comments regarding this report, please contact me at the number listed below.

Sincerely,

David C. Stoll  
Project Manager  
Shaw Environmental & Infrastructure Engineering of New York, P.C.

Please Reply To: Dave Stoll

Phone: 518.785.2362

E-Mail Address: [Dave.Stoll@shawgrp.com](mailto:Dave.Stoll@shawgrp.com)

Shaw – project file



# ***FINAL SITE CHARACTERIZATION REPORT***

***253 Osborne Road Site  
Loudonville, Albany County, New York  
Site Number 401056  
Spill Number 07-02543  
Contract Work Authorization Number: D006132-19***



***Shaw Project No.: 134685.1104***

February 2, 2012

Prepared for:

Mr. Christopher O'Neil, P.E.  
New York State Department of Environmental Conservation  
Division of Environmental Remediation Region 4  
1130 N. Westcott Road  
Schenectady, New York 12306-2014

Submitted by:

Shaw Environmental & Infrastructure Engineering of New York, P.C.  
13 British American Boulevard  
Latham, New York, 12110

---

13 BRITISH AMERICAN BOULEVARD, LATHAM, NY 12110-1405  
• 518.783.1996 • FAX 518.783.8397 •  
SHAW ENVIRONMENTAL & INFRASTRUCTURE ENGINEERING OF NY, P.C.

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## 1.0 Introduction

---

Shaw Environmental & Infrastructure Engineering of New York, P.C. (Shaw) has prepared this Site Characterization (SC) Report summarizing the collection of soil, soil gas and groundwater samples at the 253 Osborne Road property (HW Site, with project number 401056) and immediately northwest around the multi-use retail property located at 469-471 Albany-Shaker Road (designated SC Site for purposes of this report) located in Loudonville, Albany County, New York (**Figure 1**). The primary purpose of the SC was to further delineate the extent of off-site impacts to soil, groundwater and soil gas from the 253 Osborne Road property and determine the need for soil, groundwater and/or soil vapor intrusion monitoring and/or mitigation for the off-site properties.

### 1.1 Site Area / Off-Site Property Description

#### **Site Description / Remedial History**

The 253 Osborne Road site consists of an approximate 0.9 acre parcel formerly containing a strip mall of retail tenants, including a dry cleaner. On-site investigative and remedial work was completed from 2003 to 2008 under New York State Department of Environmental Conservation (NYSDEC) Spill Program oversight and from 2008 to present under NYSDEC Remedial Program oversight via an independent Order on Consent. Tetrachloroethene (PCE), a typical dry cleaning agent, and its degradation chemicals have been found both on-site and at the immediately down-gradient multi-use retail property according to information provided to Shaw. The most recent document referencing subsurface impacts is the *2008 Soil, Groundwater and Soil Vapor Sampling Report* completed by CPI Environmental Services, Inc. received by the NYSDEC on April 9, 2008.

The HW Site owner at the time, Osborne Road Associates, LLC, (“the LLC”) and the NYSDEC, in cooperation with the New York State Department of Health (NYSDOH), executed an Order on Consent (Order) in 2008 to address on-site investigative and remedial work associated with the demolition of the existing building, removal of additional contaminated soils, construction of a new commercial building, continued site management, and associated citizen participation. The off-site work was left to future negotiations whereby the LLC refused to pursue off-site investigative work and could not negotiate the installation and operation of an off-site soil vapor intrusion (SVI) mitigation system on the adjacent property. (The off-site SVI mitigation was agreed between the LLC and NYSDEC, but not formalized in an Order, as an alternative to

continued off-site SVI monitoring.) Shaw was subsequently retained to complete additional investigative activities to further characterize soil, groundwater and vapor phase impacts and determine the need for groundwater and/or soil vapor intrusion monitoring and/or mitigation for the HW Site-off-site properties. The scope of work and results are detailed in the remaining sections of this report.

## *2.0 Scope of Work*

---

### *2.1 Field Activities*

The approved scope of work completed by Shaw included the advancement of eleven borings at eight locations across the SC site study area. Eight of these monitoring wells were originally anticipated to be advanced to 25 feet below ground surface (bgs) with 15 feet of screen; three locations would have well pairs; these three monitoring wells were anticipated to be completed to 40 feet bgs with 5 feet of screen.

At the time of field activities it was determined that the depth to bedrock at two of the three proposed well pair locations would not adequately define differences in groundwater chemistry and only one well pair would be installed. A total of nine monitoring wells as well as nine permanent soil-vapor points were installed in the area down-gradient of the Site.

One visit was made to the HW Site and surrounding properties prior to the initiation of SC activities. On May 13, 2011 Shaw personnel met with representatives from the NYSDEC, NYSDOH, representatives of 469-471 Albany Shaker (the SC Site) and representatives of the current owner of the 253 Osborne parcel (a national retail company) to conduct a site walk and discuss the proposed scope of work. The procedures and results of the investigative activities are detailed below. A photographic log is included as **Appendix A**.

### *2.2 Monitoring Well and Soil Gas Installations*

Eight monitoring well locations were accessed and soil borings were advanced by the drilling subcontractor, GeoLogic, Inc between June 14 and June 28, 2011. One of these locations was completed as a well pair (MW-5/MW-5A). A total of nine new monitoring wells were installed; their locations are presented in **Figures 2 and 2A**. The soil borings were advanced through unconsolidated deposits consisting primarily of poorly graded sands underlain by a 1 to 3 foot layer of till/ weathered shale to depths ranging from 17 to 42 feet bgs. The soil borings were logged by a Shaw geologist using the Unified Soil Classification System (ASTM D 2487-85) and field screened for VOCs using a MiniRae<sup>TM</sup> PID calibrated to 100 parts per million (ppm) of isobutylene. Field notes are included as **Appendix B**.



The monitoring wells were constructed using schedule 40 PVC 10-slot screen and riser and finished with protective roadbox covers; the construction specifics are included in the drill logs in **Appendix C**.

The monitoring wells were developed on July 14<sup>th</sup>, 15<sup>th</sup> and 18<sup>th</sup> 2011 using a Whale® submersible pump with clean polyethylene tubing as well as a Waterra® Hydrolift 2 pump with a check valve. As detailed in the SC field sheets, the wells were developed until either 10 well volumes were removed from the wells, turbidity readings reached below 50 nephelometric units (NTUs) or the well was pumped dry. Development water was containerized and staged onsite for disposal by an approved sub contractor.

On June 28 and 29, 2011 Geologic installed nine permanent soil gas points to depths ranging from 7 to 8 feet bgs. Once the desired depth was reached, a stainless steel screen attached to a dedicated section of laboratory grade Teflon tubing was placed in the borehole. The borehole was backfilled with glass beads to a minimum of six inches above the screened interval and bentonite was placed above the glass beads to the ground surface. The tubing was secured and finished at grade with an aluminum roadbox. The bentonite was allowed to cure for 24 hours prior to sampling.

Soil cuttings from all subsurface activities were containerized and staged at the HW Site for disposal by an approved sub contractor.

### ***2.3 Soil Sampling***

As mentioned in the previous section nine monitoring well locations were advanced as soil borings by the drilling subcontractor, between June 14 and June 28, 2011 as well as nine permanent soil gas points.

Soil samples from the monitoring wells were collected continuously from 5 feet bgs to the bottom of the boring using rig mounted 4 1/4" augers equipped with a 2-foot split spoon sampler. The "split spoons" were logged to provide vertical characterization of any impacts as well as to provide stratigraphic information for the SC Site. The collection of soil samples for laboratory analysis occurred at depths exhibiting the highest PID reading and/or were secured from locations at or near the water table interface.



Soil samples from the soil gas locations were obtained with a 2-foot split spoon sampler either from the 5-7 foot interval or the 6-8 foot interval. Not all soil gas locations were sampled as some were in close proximity to monitoring wells which would have yielded redundant data.

All samples were sent to Mitkem Laboratories (Mitkem) in Warwick, Rhode Island for TCL list analytes including Volatile Organic Compounds (VOC), Semi-Volatile Organic Compounds (SVOC), total metals (target analyte metals), mercury, and PCBs. The following samples were secured for laboratory analysis:

- MW-5 (24'-26')
- MW-5A (25'-27')
- MW-3 (11'-13')
- MW-4 (17'-19')
- MW-6 (24'-26')
- MW-8 (25'-29')
- MW-8 (34'-37')
- MW-2 (9'-13')
- MW-1 (11'-13')
- MW-7 (23'-25')
- SG-3 (7'-8')
- SG-8 (7'-8')
- SG-5 (5'-7')
- SG-9 (7'-8')
- SG-4 (5'-7')

Decontamination procedures between each sample and sampling location followed the procedures outlined in the Quality Assurance Project Plan (QAPP).

## **2.4 Soil Gas Sampling**

Shaw personnel returned to the SC Site on July 13, 2011 to collect the soil gas samples from the soil gas locations described in **Section 2.2**. Prior to sampling, an inspection of general site conditions was performed that included documentation of exterior weather conditions and temperature and the completion of ambient air screening using field equipment (i.e. ppb range photoionization detector (PID) or similar).

After completion of the general site inspection, a helium tracer gas test was completed in accordance with the *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York* document. The tracer gas test acts as a quality assurance/quality control (QA/QC) measure to ensure that the outdoor air is not mixing with the soil gas. A tracer gas system (an enclosure with two openings at the top) was placed over the sampling point; then the sample line was attached from the top of the tracer gas system to the helium (tracer gas) detector using laboratory grade Teflon® tubing. The valve on the helium gas canister was then opened and the helium gas

was introduced to the tracer gas system through a second opening on top of the enclosure. The gas was allowed to saturate the interior of the system and the sample line was put under a vacuum using the helium detector. An audio alert would sound if helium was detected (indicating that a leak is present) by the helium detector. All sample locations passed the helium leak detection test during the sampling event.

Upon completion of the tracer gas test, the tubing was purged of approximately two to three probe volumes at a flow rate of less than 0.2 liters per minute. PID readings were collected and recorded during the purging process. A “batch certified” summa canister was then fitted with a one hour flow regulator and connected to the sample tubing. Once attached to the tubing, sampling was initiated. Sampling continued until there was a minimal vacuum of approximately 5 inches of mercury (in. Hg) or less remaining in the canister. Samples were collected over a 2 hour period.

A total of 11 soil vapor samples (9 soil gas locations plus a duplicate sample and one ambient air) were collected. Shaw recorded the serial number of each canister and associated regulator on the chain-of-custody (COC) form and field sample form, **Appendix D**. The assigned sample identification was then placed on the canister identification tag and recorded on the COC and field notebook/sample form. The gauge pressure and sample start time were also recorded. A digital photograph of each canister setup and surrounding area was taken for the project files to document the set-up (**Appendix A**).

When the sampling was completed, the soil vapor samples were shipped under proper chain of custody to Air Toxics Ltd., an approved ELAP certified laboratory, for analysis of VOCs by EPA method TO-15 to an accuracy of  $1 \mu\text{g}/\text{m}^3$ .

## ***2.5 Groundwater Sampling***

On August 1, 2 and 3, 2011 groundwater samples were collected from the newly installed monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7 and MW-8) as well as from existing shallow monitoring wells (OS-1, OS-2, OS-3, OS-4, OS-6, OS-9, OS-10, OS-11 and OS-12). The monitoring wells were gauged for depth to water and depth to bottom prior to being sampled. Gauging data was used to create a groundwater contour map which is included as **Figure 3**.

Groundwater samples were collected using the low-flow methodology with a battery powered peristaltic GeoPump® with clean dedicated polyethylene tubing in accordance with Shaw's Field Activities Plan (FAP). Groundwater field parameters (pH, temperature, specific conductivity, dissolved oxygen and oxidation reduction potential) were allowed to stabilize prior to sampling. Copies of the well development and field sampling data sheets are included in **Appendix E**. **Table 1** summarizes sampling field data. The groundwater samples were sent to Mitkem for analyses of VOCs, SVOCs, and total metals; samples collected from monitoring wells MW-1, MW-2 and MW-8 were also analyzed for PCBs. A matrix spike and matrix spike duplicate were collected at MW-8 and a blind field duplicate was collected from MW-2. All purge groundwater was collected and transferred into one 55 gallon drum staged at the HW Site for disposal at a later date.

## **2.6    *Passive Diffusion Bag Sampling***

At the request of the NYSDEC, Shaw personnel returned to the SC study area on August 18, 2011 to deploy passive diffusion bags (PDBs) supplied by Columbia Analytical Services (CAS) in monitoring wells MW-1, MW-2, MW-5, MW-8, OS-10 and OS-11. Monitoring wells MW-1 through MW-6 were gauged for depth-to-water, depth to bottom and for the presence of oil prior to the PDBs deployment. MW-2 and MW-8 each had two PDBs hung at differing depths in order to delineate any change in contaminant mass across the aquifer. Analytical data is summarized in **Table 11**.

Prior to installing the PDBs Shaw confirmed that no free product was present within the wells. The PDB was slowly lowered into the well and kept away from the casing walls as they descended. Once the PDB had been fully deployed, Shaw attached the line to the top of the casing so that the line remained taught and centered in the monitoring well. The deployment date, depths and locations were recorded in the field notes. One PDB was installed in each monitoring well, with exceptions of MW-2 and MW-8 which had two PDBs on the harness. The PDBs were installed at the following depths as detailed in **Table 12**:

- MW-1 - 14.67' bgs;
- MW-2 – 11.00' bgs and 14.88' bgs;
- MW-5 – 37.60' bgs;
- MW-8 – 26.00' bgs and 34.68' bgs;
- OS-10 – 11.68' bgs;
- OS-11 – 22.80' bgs;

Shaw also installed one duplicate PDB in MW-1 (two PDBs were installed at this interval). MS/MSD samples were unable to be obtained due to the aliquot volume in each PDB (as three PDBs would not fit at the same interval in a 2" monitoring well).

## ***2.7 Data Quality Control/Quality Assurance and Management***

All analytical data (**Appendix G** – provided on CD) generated throughout the course of this investigation was sent for third party validation. Data Validation Services, Inc. reviewed all the generated data and prepared a Data Usability Summary Report (DUSR) for each package (**Appendix H**).

## ***2.8 Site Survey***

On August 1, 2011, the LaBerge Group of Albany, NY (LaBerge) completed a survey of the HW Site, the SC Site, soil gas locations, as well as newly installed and previously installed groundwater monitoring wells. LaBerge provided Shaw with coordinates in NYS Plane NAD 1983 and groundwater monitoring well elevations in NAVD 1988. Using the information provided by LaBerge, Shaw determined the groundwater elevation of each of the monitoring wells and created a SC groundwater contour map.

The ground surface of the general area surrounding the site slopes to the west of the former retail strip mall or the area of concern toward Albany Shaker Road. A groundwater contour map was prepared using the groundwater elevation data obtained during the August sampling event and is presented as **Figure 3**. The groundwater elevation difference between OS-6 and MW-8 was 30.75 feet. The horizontal hydraulic gradient for the August event is -0.0870 (OS-6 to MW-8) feet. Groundwater appears to be flowing in a northwesterly/ westerly direction toward Albany Shaker Road.

## ***2.9 Investigation Derived Waste Management***

Fifteen drums of soil generated through the soil boring and monitoring well installation process, eight drums of purge/development water and one drum of PPE/sampling materials were clearly labeled as to their contents and origin. Results of the waste characterization showed the soils and water to be able to be handled non-hazardous wastes. The NYSDEC issued a letter of determination approving this management/disposal process. The drums were removed from the HW Site by Clean Harbors and transported to Spring Grove Resource Recovery, Inc. for disposal as detailed in **Appendix F**.

## 3.0 Analytical Results

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### 3.1 Soil Sampling

The analytical results are summarized and compared to NYSDEC Recommended Soil Cleanup Objectives (RSCOs) for unrestricted use as defined by 6 NYCRR part 375 (December 2006) on **Tables 2 - 4** (VOCs, SVOCs as well as PCBs and Metals). The complete analytical data package is included as **Appendix G**. None of the compounds detected in any of the soil boring samples exceeded NYSDEC RSCO standards. Compounds detected above pertinent laboratory or method detection limits are presented on **Figure 4**.

### 3.2 Soil Gas Sampling

Analytical results of soil gas sampling completed beneath various locations throughout the SC site investigation indicated detections of several analytes above laboratory method detection limits. For the purposes of this report only site specific compounds of concern, PCE, trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and cis-1,2-dichloroethene (cis-1,2-DCE) are discussed in this summary. Analytical results are presented on **Table 5** and **Figure 5**. The complete laboratory analytical data package is included as **Appendix G**.

As shown on **Figure 5**, PCE was detected in all nine soil gas samples and the duplicate sample at concentrations ranging from 0.28  $\mu\text{g}/\text{m}^3$  in SG-5 to 115,000  $\mu\text{g}/\text{m}^3$  in SG-1. TCE was detected in four of the nine soil gas samples and the duplicate sample collected at concentrations ranging from 0.87  $\mu\text{g}/\text{m}^3$  in SG-5 and SG-6 to 340  $\mu\text{g}/\text{m}^3$  in SG-2. 1,1,1-TCA was also detected in four of the nine soil gas samples at concentrations ranging from 0.53  $\mu\text{g}/\text{m}^3$  in SG-6 to 21  $\mu\text{g}/\text{m}^3$  in SG-4. Cis-1,2-DCE was detected in two of the nine soil gas samples, SG-4 and SG-2 at concentrations of 0.67  $\mu\text{g}/\text{m}^3$  and 110  $\mu\text{g}/\text{m}^3$  respectively. The outdoor ambient sample did not detect any of the PCE, TCE, or DCE compounds of concern; however, low levels of other miscellaneous VOC compounds were detected in this sample.

### 3.3 Groundwater Sampling

#### 3.3.1 Groundwater Samples – Monitoring Wells

The analytical results from the August 2011 sampling event are summarized and compared to New York State Groundwater Quality Standards (NYSGWQS) as defined in the Technical and Operational Guidance Series (TOGS) 1.1.1 for ambient water quality on **Tables 6 - 8** (VOCs,

SVOCs as well as PCB and metals) and **Figure 6**. The complete analytical data package is included as **Appendix G**. The field data and groundwater parameters collected during the August, 2011 sampling event are summarized in **Table 1**. The August 2011 groundwater sampling event detected at least one analyte at concentrations at or above the NYSGWQS for VOCs in the samples collected from MW-1, MW-2, MW-5A, MW-6, MW-7, MW-8, OS-1, OS-10, OS-11 and OS-12. Compounds detected above pertinent laboratory or method detection limits are presented on **Figure 6**. Metals indicated on **Figure 6** are above NYSGWS; all laboratory detected metals are not presented.

### **3.3.2 Groundwater Samples – PDBs**

The analytical results from the September 2011 PDB sampling event are summarized and compared to New York State Groundwater Quality Standards (NYSGWQS) as defined in the Technical and Operational Guidance Series (TOGS) 1.1.1 for ambient water quality on **Table 11** and **Figure 7**. The complete analytical data package is included as **Appendix G**. Calculated harness depths for deployed PDBs are included as **Table 12**. The September 2011 PDB retrieval event detected at least one analyte at concentrations at or above the NYSGWQS for VOCs in the samples collected from MW-1, MW-2-S, MW-2-D, MW-8-S, MW-8-D, OS-10, OS-11 and the duplicate. Compounds detected above pertinent laboratory or method detection limits are presented on **Figure 7**. VOCs were not detected in the PDB deployed at MW-5.

### **3.3 Quality Assurance/Quality Control (QA/QC)**

Quality Assurance/Quality Control (QA/QC) samples were collected and analyzed to evaluate field and laboratory quality control. Results are included in the laboratory packages (**Appendix G**). The relative percent difference for duplicate samples and matrix spikes were acceptable as is or with minor qualification.

### **3.4 Data Usability Summary Report (DUSR)**

All three Data Usability Summary Reports (DUSRs) produced for this SC project by Data Validation Services are included as **Appendix H**. In general all data is good and considered usable.

As noted in the DUSR for SDG Nos. K1056, K1111, K1155 (soil), most sample results are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers. The DUSR noted the timeframe from sample collection to laboratory receipt exceeded two days; these samples were stored at Shaw's local office in an "environmental sample only"

refrigerator. Soil samples were shipped to Mitkem when all soil sampling was completed. All technical holding times were met. Field duplicate (MW-1 11-13') results were within validation guidelines with the exception of PCE and sodium which had Relative Percent Differences greater than 50%; these results were qualified as estimated.

One result of the internal standard for d4-1,4-dichlorobenzene during analysis of MW-8 34-37' is not usable due to an apparent matrix effect. Results for that sample were thus qualified as estimated. Low level PCE detections in MW-3 11-13', MW-4 17-19' and MW-6 24-26' were qualified as non-detect because of PCE presence in associated blanks. Additionally, PCE results for MW-8 were qualified as estimated because the calibration standards exceed QC limits.

All holding times, surrogate recovery criteria, internal standard criteria and method blank criteria for SVOCs were within QC limits. Results affected by low % Relative Standard Deviation (RSD) in the calibration standards for 1,2-dichlorobenzene, 1,4-dichlorobenzene and 1,2,4-trichlorobenzene were qualified as estimated because the matrix spikes showed low recoveries. Results for 2,4-dinitrophenol, 2,4-dimethylphenol, bis(2-ethylhexyl)phthalate, pentachlorophenol, 4,6-dinitro-2-methylphenol, 2,2,-oxybis(1,-chloropropene), n-nitroso-di-n-propylamine, 4-nitrophenol, 4-nitroaniline and indeno(1,2,3-cd)pyrene were also qualified as estimated because QC criteria were not met for the calibration standards.

The PCB QC criteria for matrix spikes, holding times, method blanks, surrogate recoveries as well as calibration standards were all within acceptable limits. No extra qualifiers were assigned.

The ICP serial dilution criteria, method blank criteria, as well as instrument processing criteria were within acceptable limits for TAL metals. The recovery for antimony was outside required limits and therefore qualified as estimated. All other matrix spike and duplicate recoveries were within QC limits.

As noted in the DUSR for SDG Nos. K1360 and K1169 (groundwater), sample results are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers. Collection times for MW-6 and MW-7 were reversed on the chain of custody, bottles were properly identified, and the identifications were resolved at sample receipt and documented through e-mail correspondence. Field duplicate (MW-2) results are within validation guidelines.

Holding times, surrogate responses, internal responses and method blanks for VOCs all met the applicable QC criteria. Results for analytes initially reported with the "E" laboratory flag have

been derived from the dilution analyses of the samples. The reporting limit for styrene in MW-2, MW-3, MW-4, and OS-9 was revised due to poor and non-linear response in the lowest initial calibration standard. Several results for acetone, 2-butanone, 1,2-dibromo-3-chloropropane and iodomethane were qualified as estimated due to QC issues with the calibration standards.

Holding times, surrogate responses, internal responses and method blanks for SVOCs all met the applicable QC criteria. All matrix spike criteria were met with the exception of 2,4-dimethylphenol which had low recoveries. MW-8 080211 was qualified as estimated for that result. Several results for hexachlorocyclopentadiene, 2,4 dinitrophenol, 4,6-dinitro-2-methylphenol and pentachlorophenol were qualified as estimated because of QC issues with the calibration standards.

The PCB QC criteria for matrix spikes, holding times, method blanks and calibration standards were all within acceptable limits. Aroclor field blank results were qualified as estimated because of surrogate recoveries outside the QC limits.

The ICP serial dilution criteria, method blank criteria, as well as instrument processing criteria were within acceptable limits for TAL metals. The recovery for antimony was outside required limits and therefore qualified as estimated. All other matrix spike and duplicate recoveries were within QC limits.

Detections of zinc in the field samples were qualified as non-detect because the validator considered them external contamination due to presence at a similar level in the associated equipment blank (ERB-01). Iron results for MW-8 080211 were qualified as estimated because of low recovery in the matrix spike/laboratory duplicate evaluation. All remaining QC criteria were met.

As noted in the DUSR for SDG Nos. K1736 (passive diffusion bag (PDB) groundwater), 1107294A and 1107294B (air), sample results are usable as reported, or usable with minor qualification. Surrogate and internal standard recoveries as well as holding times met QC criteria. Acetone in the groundwater was revised to reflect non-detection because of its presence in the PDB blank. M,p-xylene, o-xylene and total xylene results in the PDB DUP sample were qualified as estimated because of low recoveries in the Laboratory Control Sample (LCS). Calibration standard response QC criteria was not met for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, acetone and 2-butanone. All results for these compounds were qualified as estimated. Results for chloroform (MW-1 091511 and DUP) as well as hexachlorobutadiene



(MW-8-S 091511 and MW-8-D 091511) were qualified as estimated because of QC issues associated with the calibration standard response. Matrix spikes were not performed because of low sample volumes.

The benzene and heptanes (SG-6), ethanol (soil gas DUP), as well as benzene (outdoor ambient) were qualified as estimated because of poor mass spectral quality. Additionally, ethanol (outdoor ambient sample) was revised to non-detect because of poor mass spectral quality. QC criteria for acetone, ethylbenzene, hexane, toluene, o-xylene and m,p-xylenes were not met, therefore SG-3 and its duplicate results were qualified as estimated. Chloromethane results in SG-4 and SG-5 were qualified as estimated because of QC issues associated with the calibration standard response.

## 4.0 Investigation Findings

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Soil, soil gas and groundwater data generated during the course of SC activities indicates the following findings:

1. There were no analytes detected above the RSCOs for unrestricted use in any of the soil boring samples collected during this investigation.
2. Based upon groundwater measurements collected and topography, the groundwater elevation difference between OS-6 and MW-8 was 30.75 feet. The horizontal hydraulic gradient for the August, 2011 event is -0.0870 (OS-6 to MW-8) feet. Groundwater appears to be flowing in a northwesterly/westerly direction toward Albany Shaker Road based upon gauging data generated during this assessment.
3. All collected soil gas samples (SG-1, SG-2, SG-3, SG-4, SG-5, SG-6, SG-7, SG-8 and SG-9) detected at least one of the five target compounds. The ambient air sample did not report any of the five target compounds at or above the laboratory method detection limit as shown in the abridged summary data tables in **Appendix I**. Results for the target compounds were as follows:
  - PCE – 150,000  $\mu\text{g}/\text{m}^3$  (SG-1); 27,000  $\mu\text{g}/\text{m}^3$  (SG-2); 7.9  $\mu\text{g}/\text{m}^3$  (SG-3); 1.2  $\mu\text{g}/\text{m}^3$  (SG-4); 0.28  $\mu\text{g}/\text{m}^3$  (SG-5); 70  $\mu\text{g}/\text{m}^3$  (SG-6); 4,400  $\mu\text{g}/\text{m}^3$  (SG-7); 5,400  $\mu\text{g}/\text{m}^3$  (SG-8); and 80,000  $\mu\text{g}/\text{m}^3$  (SG-9);
  - TCE – 340  $\mu\text{g}/\text{m}^3$  (SG-1); 0.87  $\mu\text{g}/\text{m}^3$  (SG-5); 0.87  $\mu\text{g}/\text{m}^3$  (SG-6); 33  $\mu\text{g}/\text{m}^3$  (SG-8); and 220  $\mu\text{g}/\text{m}^3$  (SG-9);
  - cis-1,2-DCE – 110  $\mu\text{g}/\text{m}^3$  (SG-2) and 0.67  $\mu\text{g}/\text{m}^3$  (SG-4);
  - 1,1,1-TCA – 2.1  $\mu\text{g}/\text{m}^3$  (SG-3); 21  $\mu\text{g}/\text{m}^3$  (SG-4); 6.9  $\mu\text{g}/\text{m}^3$  (SG-5); and 0.53  $\mu\text{g}/\text{m}^3$  (SG-6)
4. Analytes equal to or exceeding the NYSGWQS for VOCs were detected in 10 of the 17 groundwater samples collected from the existing (OS-1, OS-2, OS-10, OS-11 and OS-12) and newly installed (MW-1, MW-2, MW-3, MW-5A (shallow), MW-6, MW-7 and MW-8) monitoring wells during the August 2011 sampling event. Results exceeding the NYSDGWQS are included in **Tables 7 to 11** and abridged data tables in **Appendix I** as follows:

- PCE [5 µg/l] \* – 9.0 µg/l (MW-1); 7.4 µg/l (MW-2); 19 µg/l (MW-5A); 28 µg/l (MW-6); 18 µg/l (MW-7); 300\*\* µg/l (MW-8); 280 µg/l (OS-1); 370 µg/l (OS-10); 16 µg/l (OS-11) and 19 µg/l (OS-12);
- TCE [5 µg/l] \* – 13 µg/l (MW-8); 8.5 µg/l (OS-1) and 39 µg/l (OS-10);
- cis-1,2-DCE [5 µg/l] \* – 15 µg/l (OS-10);
- Vinyl Chloride [2 µg/l] \* – 7.6 µg/l (OS-2);

Of a lesser concern for this SC work, the following metals were detected above NYSGWS in monitoring wells sampled during the August 2011 event.

- Sodium [20,000 µg/l] \* – 120,000 µg/l (MW-1); 131,000 µg/l (MW-2); 603,000 µg/l (MW-3); 793,000 µg/l (MW-4); 137,000 µg/l (MW-5); 752,000 µg/l (MW-5A); 424,000 µg/l (MW-6); 498,000 µg/l (MW-7); 180,000 µg/l (MW-8); 99,400 µg/l (OS-1); 624,000 µg/l (OS-6); 145,000 µg/l (OS-9); 123,000 µg/l (OS-10); 157,000 µg/l (OS-11); 677,000 µg/l (OS-11);
- Iron [300 µg/l] \* – 13,700 J\*\*\* µg/l (MW-1); 2,490 J\*\*\* µg/l (MW-2); 2,190 J\*\*\* µg/l (MW-3); 533 J\*\*\* µg/l (MW-5A); 2,160 J\*\*\* µg/l (MW-6); 956 J\*\*\* µg/l (MW-7); 15,800 J\*\*\* µg/l (MW-8); 349 J\*\*\* µg/l (OS-2); 6630 J\*\*\* µg/l (OS-4); 24,600 J\*\*\* µg/l (OS-6); 2,990 J\*\*\* µg/l (OS-11) and 1,140 J\*\*\* µg/l (OS-12)
- Manganese [300 µg/l] \* – 3,220 (MW-1); 556 µg/l (MW-2); 740 µg/l (MW-5); 610 µg/l (MW-8); 569 µg/l (OS-2); 1,520 µg/l (OS-4); 2,900 µg/l (OS-6) and 2,820 µg/l (OS-9);
- Magnesium [35,000 µg/l] \* – 37,900 (MW-5); 53,000 µg/l (MW-5A); 49,400 µg/l (MW-6); 55,600 µg/l (MW-7) and 52,500 µg/l (OS-12)

5. Analytes equal to or exceeding the NYSGWQS for VOCs were found in 7 of the 8 groundwater samples collected from deployed PDBs placed in monitoring wells (MW-1, MW-2, MW-5, MW-8, OS-10 and OS-11) collected in September 2011. Results exceeding the NYSDGWQS are as follows:

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\* TOGS 1.1.1 – Technical Operational Guidance Series: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitation

\*\* D – The compound Concentration was obtained from a secondary dilution analysis

\*\*\* J – Data indicated the presence of a compound that meets the identification criteria. The result is less than the quantization limit but greater than MDL. The concentration given is an approximate value.

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- PCE [5 µg/l]<sup>\*</sup> – 15 µg/l (MW-1); 11 µg/l (MW-2 “shallow”); 9.4 µg/l (MW-2 “deep”); 340 µg/l (MW-8 “shallow”); 330 µg/l (MW-8 “deep”); 280 µg/l (OS-10) and 74 µg/l (OS-11);
- TCE [5 µg/l]<sup>\*</sup> – 19 µg/l (MW-8 “shallow”); 19 µg/l (MW-8 “deep”) and 33 µg/l (OS-10);
- cis-1,2-DCE [5 µg/l]<sup>\*</sup> – 6.3 µg/l (MW-8 “shallow”); 6.0 µg/l (MW-8 “deep”) and 13 µg/l (OS-10);
- Vinyl Chloride [2 µg/l]<sup>\*</sup> – 2.6 µg/l (MW-2 “shallow”) and 2.7 µg/l (MW-2 “deep”)

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\* TOGS 1.1.1 – Technical Operational Guidance Series: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitation

\*\* D – The compound Concentration was obtained from a secondary dilution analysis

\*\*\* J – Data indicated the presence of a compound that meets the identification criteria. The result is less than the quantization limit but greater than MDL. The concentration given is an approximate value.

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## 5.0 *Conclusions and Recommendations*

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Existing soil quality data (**Figure 4**) did not indicate any areas of potential concern, with no “adsorbed” constituents being observed at or above pertinent RSCO’s for unrestricted use.

Groundwater impacts (**Figure 6**) were observed primarily in OS-1 (PCE @ 280 ppb) and OS-10 (PCE @ 370 ppb, TCE @ 39 ppb and cis 1,2-DCE @ 15 ppb) which are located immediately adjacent proximal and hydro-geologically down gradient from the 253 Osborne Road HW Site, and MW-8 (PCE @ 300 ppb (diluted) and TCE @ 13 ppb) which is located downgradient from the HW site, adjacent to Albany Shaker Road. Lesser amounts of dissolved chlorinated VOC compounds were observed in OS-2, OS-11, MW-2, MW-1, MW-7, MW-6, MW-5A and OS-12.

Samples secured from the passive diffusion bags generally supported the groundwater analytical data. The highest PCE concentrations were observed in OS-10 (PCE @ 280 ppb diluted and TCE @ 33 ppb) which is immediately adjacent to the 253 Osborne Road HW Site and MW-8 (both shallow and deep). Elevated PCE was also encountered in OS-11 @ 74 ppb and lower levels in MW-2, and MW-1. The review of this existing groundwater quality data supports the existence of a dissolved “plume” adjacent to and downgradient from the 253 Osborne Road property.

Soil gas impacts are generally consistent with existing groundwater quality data with the highest VOC impacts being observed in SG-1, SG-2, SG-6, SG-7, SG-8 and SG-9. The highest vapor phase impacts were observed in SG-1 (PCE at 150,000  $\mu\text{g}/\text{m}^3$ ) decreasing to 80,000  $\mu\text{g}/\text{m}^3$  PCE in SG-9 and 27,000  $\mu\text{g}/\text{m}^3$  in SG-2. Elevated PCE concentrations were observed in SG-6, SG-7 and SG-8 along the southwestern property boundary of the SC Site. TCE and several other degradation isomers were observed in other soil gas points as shown in **Figure 5**.

The results of soil, groundwater and vapor phase sampling indicate that groundwater and vapor phase impacts exist at the SC Site. The source of these impacts currently appears to originate from or near the 253 Osborne Road HW Site based upon data generated during this assessment program. This investigation has confirmed the offsite migration of contaminants in groundwater and soil vapor that warrant an evaluation of the potential for soil vapor intrusion to occur in additional off site buildings. The actual sampling locations and type of samples to be collected (indoor air, subslab, ambient, exterior soil vapor probes/points) should be evaluated in consultation with the NYSDOH. Finally, an additional round of groundwater quality samples

should be collected from all existing wells at the HW Site and SC Site to confirm data generated during this assessment. This additional data will facilitate discussions whether remediation and/or additional assessment activities are warranted.

Table 7  
Groundwater - VOC Analytical Results  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	Dup.	ERB-01
Field Sample ID	MW-1 080111	MW-2 080111	MW-3 080111	MW-4 080111	MW-5 080311	MW-5A 080211	MW-6 080211	MW-7 080211	MW-8 080211	Dup.	ERB-01 080111
Sample Date	08.01.2011	08.01.2011	08.01.2011	08.01.2011	08.03.11	08.02.11	08.02.11	08.02.11	08.02.11	08.01.2011	08.01.2011
Sample Depth Approx.(ft)	16.50'	16.50'	19.50'	25'	39.70'	34.50'	36'	34.50'	36.50'	16.50'	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Rinse Blank
Dichlorodifluoromethane	NVG	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U
Bromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Idomethane	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Carbon disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.2
trans-1,2-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
cis-1,2-Dichloroethene	5*	1.0 U	3.0	3.3	1.0 U	1.0 U	0.56 J	0.75 J	0.66 J	3.0	2.9
2,2-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5*	0.63 J	1.0 U	1.0 U	0.62 J	1.0 U	1.0 U	0.88 J	1.0 U	13	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	NGV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 7  
Groundwater - VOC Analytical Results  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	Dup.	ERB-01
Field Sample ID	MW-1 080111	MW-2 080111	MW-3 080111	MW-4 080111	MW-5 080311	MW-5A 080211	MW-6 080211	MW-7 080211	MW-8 080211	Dup.	ERB-01 080111
Sample Date	08.01.2011	08.01.2011	08.01.2011	08.01.2011	08.03.11	08.02.11	08.02.11	08.02.11	08.02.11	08.01.2011	08.01.2011
Sample Depth Approx.(ft)	16.50'	16.50'	19.50'	25'	39.70'	34.50'	36'	34.50'	36.50'	16.50'	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Rinse Blank
1,3-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5*	9.0	7.4	1.0 U	1.0 U	0.77 J	19	28	18	300 D	8.6
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (EDB)	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (Total)	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5*	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	10**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U



Table 7  
Groundwater - VOC Analytical Results  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	OS-1	OS-2	OS-4	OS-6	OS-9	OS-10	OS-11	OS-12	Trip Blank (1)	Trip Blank (2)	Trip Blank (3)
Field Sample ID	OS-1 080111	OS-2 080111	OS-4 080311	OS-6 080311	OS-9 080111	OS-10 080111	OS-11 080211	OS-12 080211	Trip Blank	Trip Blank	Trip Blank
Sample Date	08.01.2011	08.01.2011	08.03.11	08.03.11	08.01.2011	08.01.2011	08.02.11	08.02.11	08.01.2011	08.02.2011	08.03.2011
Sample Depth Approx.(ft)	12.50'	10'	11.50'	13.50'	19.50'	14.00'	24.80'	34.50'	NA	NA	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank
Dichlorodifluoromethane	NVG	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	7.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Idomethane	NGV	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	10	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
cis-1,2-Dichloroethene	5*	4.2	1.0 U	1.0 U	1.0 U	1.0	15	1.0 U	0.72 J	1.0 U	1.0 U
2,2-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5*	8.5	1.0 U	1.0 U	1.0 U	1.0 U	39	0.89 J	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl -2-pentanone (MIBK)	NGV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 7  
Groundwater - VOC Analytical Results  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	OS-1	OS-2	OS-4	OS-6	OS-9	OS-10	OS-11	OS-12	Trip Blank (1)	Trip Blank (2)	Trip Blank (3)
Field Sample ID	OS-1 080111	OS-2 080111	OS-4 080311	OS-6 080311	OS-9 080111	OS-10 080111	OS-11 080211	OS-12 080211	Trip Blank	Trip Blank	Trip Blank
Sample Date	08.01.2011	08.01.2011	08.03.11	08.03.11	08.01.2011	08.01.2011	08.02.11	08.02.11	08.01.2011	08.02.2011	08.03.2011
Sample Depth Approx.(ft)	12.50'	10'	11.50'	13.50'	19.50'	14.00'	24.80'	34.50'	NA	NA	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank
1,3-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5*	280	1.0 U	1.0 U	1.0 U	1.0 U	370	16	19	1.0 U	1.0 U
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (EDB)	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (Total)	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5*	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	10**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

Duplicate - MW-2

All results are in micrograms per Liter (µg/L) or parts per billion (ppb);

New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) 1.1.1

NVG - No standard value given

**Bold** - Indicates analyte detected above method detection limit

Shaded = Analyte detected above NYSDEC Groundwater Guidance Values

U - Not detected at laboratory method detection limit;

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

UJ- The analyte was not detected. Flag from Data Usability Study.

D - The compound concentration was obtained from a secondary dilution analysis

\* = The principal organic contaminant standard for groundwater of 5 µg/l applies to this substance

\*\* = Applies to the sum of cis- and trans-1,3-dichloropropene or 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene

Table 8  
Groundwater - SVOC Analytical Data  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID Field Sample ID Sample Date Sample Depth Approx.(ft)		MW-1 08.03.2011 16.50'	MW-2 08.01.2011 16.50'	MW-3 08.01.2011 19.50'	MW-4 08.01.2011 25'	MW-5 08.03.11 39.70'	MW-5A 08.02.11 34.50'	MW-6 08.02.11 36'	MW-7 08.02.11 34.50'	MW-8 08.02.11 36.50'	OS-1 08.01.2011 12.50'
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Phenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-chloroethyl) ether	1.0	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-chloroethoxy) methane	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
4-Chloro-3-methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	5*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2,4,6-Trichlorophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	1***	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dimethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 8  
Groundwater - SVOC Analytical Data  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	OS-1
Field Sample ID	MW-1 080311	MW-2 080111	MW-3 080111	MW-4 080111	MW-5 080311	MW-5A 080211	MW-6 080211	MW-7 080211	MW-8 080211	OS-1 080111
Sample Date	08.03.2011	08.01.2011	08.01.2011	08.01.2011	08.03.11	08.02.11	08.02.11	08.02.11	08.02.11	08.01.2011
Sample Depth Approx.(ft)	16.50'	16.50'	19.50'	25'	39.70'	34.50'	36'	34.50'	36.50'	12.50'
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
2,4-Dinitrophenol	10	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
4-Nitrophenol	1***	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibenzofuran	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	1***	20 U	20 UJ	20 UJ	20 UJ	20 U	20 U	20 U	20 UJ	20 UJ
N-Nitrosodiphenylamine	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1***	20 U	20 UJ	20 UJ	20 UJ	20 U	20 U	20 U	20 U	20 UJ
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (a) anthracene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-ethylhexyl) phthalate	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (b) fluoranthene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (k) fluoranthene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (a) pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno (1,2,3-cd) pyrene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo (a,h) anthracene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (g,h,i) perylene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 8  
Groundwater - SVOC Analytical Data  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID Field Sample ID Sample Date Sample Depth Approx.(ft)		OS-2 OS-2 080111 08.01.2011 10'	OS-4 OS-4 080311 08.03.11 11.50'	OS-6 OS-6 080311 08.03.11 13.50'	OS-9 OS-9 080111 08.01.2011 19.50'	OS-10 OS-10 080111 08.01.2011 14.00'	OS-11 OS-11 080211 08.02.11 24.80'	OS-12 OS-12 080211 08.02.11 34.50'	Dup. Dup. 08.01.2011 16.50'	ERB-01 ERB-01 080111 08.01.2011 NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Rinse Blank
Phenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-chloroethyl) ether	1.0	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2-oxybis(1-Chloropropane)	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	0.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-chloroethoxy) methane	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
4-Chloro-3-methylphenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	5*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2,4,6-Trichlorophenol	1***	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	1***	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dimethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 8  
Groundwater - SVOC Analytical Data  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	OS-2	OS-4	OS-6	OS-9	OS-10	OS-11	OS-12	Dup.	ERB-01
Field Sample ID	OS-2 080111	OS-4 080311	OS-6 080311	OS-9 080111	OS-10 080111	OS-11 080211	OS-12 080211	Dup.	ERB-01 080111
Sample Date	08.01.2011	08.03.11	08.03.11	08.01.2011	08.01.2011	08.02.11	08.02.11	08.01.2011	08.01.2011
Sample Depth Approx.(ft)	10'	11.50'	13.50'	19.50'	14.00'	24.80'	34.50'	16.50'	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Rinse Blank
2,4-Dinitrophenol	10	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
4-Nitrophenol	1***	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibenzofuran	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5*	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	1***	20 UJ	20 U	20 U	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
N-Nitrosodiphenylamine	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1***	20 UJ	20 U	20 U	20 UJ	20 UJ	20 U	20 U	20 UJ
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	50	10 U	10 U	10 U	U U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (a) anthracene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis (2-ethylhexyl) phthalate	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (b) fluoranthene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (k) fluoranthene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (a) pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno (1,2,3-cd) pyrene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo (a,h) anthracene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo (g,h,i) perylene	NGV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:

Duplicate - MW-2

All results are in milligrams per kilogram (µg/L) or parts per billion (ppb).

New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) 1.1.1

NGV - No standard value listed

BD - Indicates analyte detected by laboratory.

U - Not detected at laboratory method detection limit.

UJ - The analyte was not detected. Flag from Data Usability Study.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - indicates compound was detected in associated Method Blank.

\* = The principal organic contaminant standard for groundwater of 5 µg/l applies to this substance

\*\*\* = Applies to the sum of phenolic compounds

Table 9  
Groundwater - Metals Analytical Results  
August 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID		MW-1	MW-2	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	Dup.	ERB-01	OS-1	OS-2	OS-4	OS-6	OS-9	OS-10	OS-11	OS-12
Field Sample ID		MW-1 080311	MW-2 080111	MW-3 080111	MW-4 080111	MW-5 080311	MW-5A 080211	MW-6 080211	MW-7 080211	MW-8 080211	Dup.	ERB-01 080111	OS-1 080111	OS-2 080111	OS-4 080311	OS-6 080311	OS-9 080111	OS-10 080111	OS-11 080211	OS-12 080211
Sample Date		08.03.2011	08.01.2011	08.01.2011	08.01.2011	08.03.11	08.02.11	08.02.11	08.02.11	08.02.11	08.01.2011	08.01.2011	08.01.2011	08.01.2011	08.03.11	08.03.11	08.01.2011	08.01.2011	08.02.11	08.02.11
Sample Depth Approx.(ft)		16.50'	16.50'	19.50'	25'	39.70'	34.50'	36'	34.50'	36.50'	16.50'	NA	12.50'	10'	11.50'	13.50'	19.50'	14.00'	24.80'	34.50'
CONSTITUENT (µg/L)		TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Rinse Blank	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum	NGV	8,520	1,350	1,050	140 B	66.0 U	268	974	485	8,100	1,500	66.0 U	66.0 U	66.7 B	66.0 U	1,410	152 B	66.0 U	2,980	633
Antimony	3	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U	9.3 U
Arsenic	25	7.2 B	4.3 U	4.3 U	5.0 B	6.8 B	4.3 U	4.3 U	5.8 B	8.5 B	6.2 B	4.3 U	4.3 U	4.6 B	5.9 B	9.1 B	5.8 B	4.3 U	7.8 B	4.4 B
Barium	1,000	189 B	155 B	B	107 B	98.6 B	245	186 B	243	182 B	154 B	1.1 U	86.3 B	121 B	204	168 B	125 B	83.2 B	196 B	247
Beryllium	3	0.47 B	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.55 B	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cadmium	5	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Calcium	NGV	120,000	132,000	204,000	146,000	145,000	267,000	210,000	247,000	122,000	131,000	110 U	108,000	127,000	127,000	162,000	146,000	120,000	97,700	254,000
Chromium	50	12.4 B	2.2 B	3.1 B	1.2 B	0.64 U	0.94 B	1.9 B	1.0 B	11.7 B	2.4 B	0.64 U	0.64 U	0.64 U	0.64 U	2.4 B	0.87 B	0.64 U	8.2 B	1.2 B
Cobalt	NGV	12.2 B	2.2 B	1.7 B	0.89 B	1.68 B	0.67 U	1.6 B	0.67 U	7.9 B	2.3 B	0.67 U	0.67 U	0.67 U	0.67 U	5.9 B	5.3 B	0.67 U	0.99 B	1.1 B
Copper	200	22.5 B	4 B	3.8 B	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	18.2 B	4.3 B	3.6 U	3.6 U	3.6 U	3.6 U	5.2 B	3.6 U	3.6 U	3.6 U	3.6 U
Iron	300	13,700 J	2,490 J	2,190 J	278 J	83.8 J	533 J	2,160 J	956 J	15,800 J	2,610 J	31.0 U	40 J	349	6,630 J	24,800 J	274 J	54.1 J	2,990 J	1,140 J
Lead	25	13.3	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	7.2 B	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.4 B	4.2 U	4.2 U	4.2 U	4.2 U
Magnesium	35,000	22,600	23,600	33,200	27,900	37,900	53,000	49,400	55,600	20,800	23,400	76.0 U	17,800	29,200	19,500	16,300	26,700	20,900	20,900	52,500
Manganese	300	3,220	556	131	105	740	33.2	249	82.5	610	560	10.0 U	264	569	1,520	2,900	2,820	84.1	145	163
Mercury	0.7	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U
Nickel	100	23.7 B	9.3 B	4.5 B	2.9 B	3.5 B	1.8 B	5.6 B	2.4 B	17.6 B	10.4 B	0.85 U	1.5 B	3.3 B	1.4 B	3.1 B	10.4 B	3.5 B	7.1 B	3.0 B
Potassium	NGV	11,900	4130	9,370	4,410	4,670	5,980	4,790	5,320	4,950	4,030	76.0 U	4,500	2,010	3,380	8,030	3,630	3,940	2,680	5,930
Selenium	10	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U
Silver	50	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U
Sodium	20,000	124,000	131,000	603,000	793,000	137,000	752,000	424,000	498,000	180,000	128,000	146 B	99,400	10,600	15,500	624,000	145,000	123,000	157,000	677,000
Thallium	0.5	6.2 U	6.2 U	6.2 U	8.7 B	6.2 U	9.6 B	6.8 B	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	7.4 B
Vanadium	NGV	13.9 B	2.7 B	2.3 B	1.1 U	1.1 U	1.1 U	2.3 B	1.3 B	15.6 B	3.1 B	1.1 U	1.1 U	1.1 U	1.1 U	4.3 U	1.1 U	1.1 U	5.7 B	1.5 B
Zinc	2,000	53.4 U	23.2 U	23.4 U	16.3 U	12.2 U	14.4 U	25.6 U	14.9 U	61.5 U	25.9 U	19.3 B	17.3 U	22.9 U	26.0 U	63.6 U	25.9 U	18.1 U	41.4 U	15.3 U

Notes:

Duplicate - MW-2

All results are in milligrams per Liter (µg/L) or parts per billion (ppb);

New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) 1.1.1

NGV - No standard value listed

Bold - Indicates analyte detected by laboratory

Shaded = Analyte detected above NYSDEC Groundwater Guidance Values

U - Not detected at laboratory method detection limit

J - Data indicates the presence of a compound that meets the identification criteria. The result is less

than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The compound concentration was also detected in the associated Method Blank

**Table 10**  
**Groundwater - PCB Analytical Results**  
**August 2011**  
**253 Osborne Rd.**  
**Loudonville, New York**

Site ID		MW-1	MW-2	MW-8	Dup.	ERB-01
Field Sample ID		MW-1 080311	MW-2 080111	MW-8 080211	Dup.	ERB-01 080111
Sample Date		08.03.2011	08.01.2011	08.02.11	08.01.2011	08.01.2011
Sample Depth Approx.(ft)		16.50'	16.50'	36.50'	16.50'	NA
CONSTITUENT (ug/kg)	TOGS 1.1.1	Primary	Primary	Primary	Duplicate	Primary
Aroclor-1016	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1221	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1232	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1242	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1248	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1254	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor-1260	0.09*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

Notes:

Duplicate - MW-2

All results are in micrograms per Liter (µg/L) or parts per billion (ppb);

New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) 1.1.1

NA = Not Analyzed

U= Not Detected. Compound was analyzed for but not detected.

\* = Applies to the sum of these substances



Table 11  
Groundwater - VOC Analytical Data  
From: Passive Diffusion Bags  
September 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2-D	MW-2-S	MW-5	MW-8-D	MW-8-S	OS-10	OS-11	Dup. (MW-1)	PDB-Blank	Trip Blank
Field Sample ID	MW-1 091511	MW-2-D 091511	MW-2-S 091511	MW-5 091511	MW-8-D 091511	MW-8-S 091511	OS-10 091511	OS-11 091511			
Sample Date	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011
Sample Depth Approx.(ft)	15'	15'	11'	38'	35'	26'	12'	23'	15'	NA	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	PDB Blank	Trip Blank
Dichlorodifluoromethane	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	2.7	2.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50	5.8 UJ	7.9 UJ	7.9 UJ	5.0 UJ	9.9 UJ	5.0 U	6.3 UJ	6.0 UJ	7.8 UJ	1.0 UJ
Idomethane	NGV	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J
trans-1,2-Dichloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
cis-1,2-Dichloroethene	5*	0.53 J	3.9	4.0	1.0 U	6.0	6.3	13	1.0 U	0.56 J	1.0 U
2,2-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 J	1.0 U	1.0 U	1.0 U	2.2	2.3	1.0 U	1.0 U	0.96 J	1.0 U
1,1,1-Trichloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 11  
Groundwater - VOC Analytical Data  
From: Passive Diffusion Bags  
September 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2-D	MW-2-S	MW-5	MW-8-D	MW-8-S	OS-10	OS-11	Dup. (MW-1)	PDB-Blank	Trip Blank
Field Sample ID	MW-1 091511	MW-2-D 091511	MW-2-S 091511	MW-5 091511	MW-8-D 091511	MW-8-S 091511	OS-10 091511	OS-11 091511			
Sample Date	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011
Sample Depth Approx.(ft)	15'	15'	11'	38'	35'	26'	12'	23'	15'	NA	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	PDB Blank	Trip Blank
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5*	1.3	1.0 U	1.0 U	1.0 U	19	19	33	2.1	1.5	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	NGV	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5*	15	9.4	11	1.0 U	330 D	340 D	280 D	74	15	1.0 U
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (EDB)	NGV	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (Total)	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 11  
Groundwater - VOC Analytical Data  
From: Passive Diffusion Bags  
September 2011  
253 Osborne Rd.  
Loudonville, New York

Site ID	MW-1	MW-2-D	MW-2-S	MW-5	MW-8-D	MW-8-S	OS-10	OS-11	Dup. (MW-1)	PDB-Blank	Trip Blank
Field Sample ID	MW-1 091511	MW-2-D 091511	MW-2-S 091511	MW-5 091511	MW-8-D 091511	MW-8-S 091511	OS-10 091511	OS-11 091511			
Sample Date	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011	09.15.2011
Sample Depth Approx.(ft)	15'	15'	11'	38'	35'	26'	12'	23'	15'	NA	NA
CONSTITUENT (µg/L)	TOGS 1.1.1	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	PDB Blank	Trip Blank
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	10**	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Hexachlorobutadiene	0.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5*	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Naphthalene	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

Duplicate - MW-1

All results are in micrograms per Liter (µg/L) or parts per billion (ppb);

New York State Department of Environmental Conservation (NYSDEC) Technical & Operational Guidance Series (TOGS) 1.1.1

NVG - No standard value listed

**Bold** - Indicates analyte detected by laboratory;

**Shaded** = Analyte detected above NYSDEC Groundwater Guidance Values

U - Not detected at laboratory method detection limit;

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

D - The compound concentration was obtained from a secondary dilution analysis

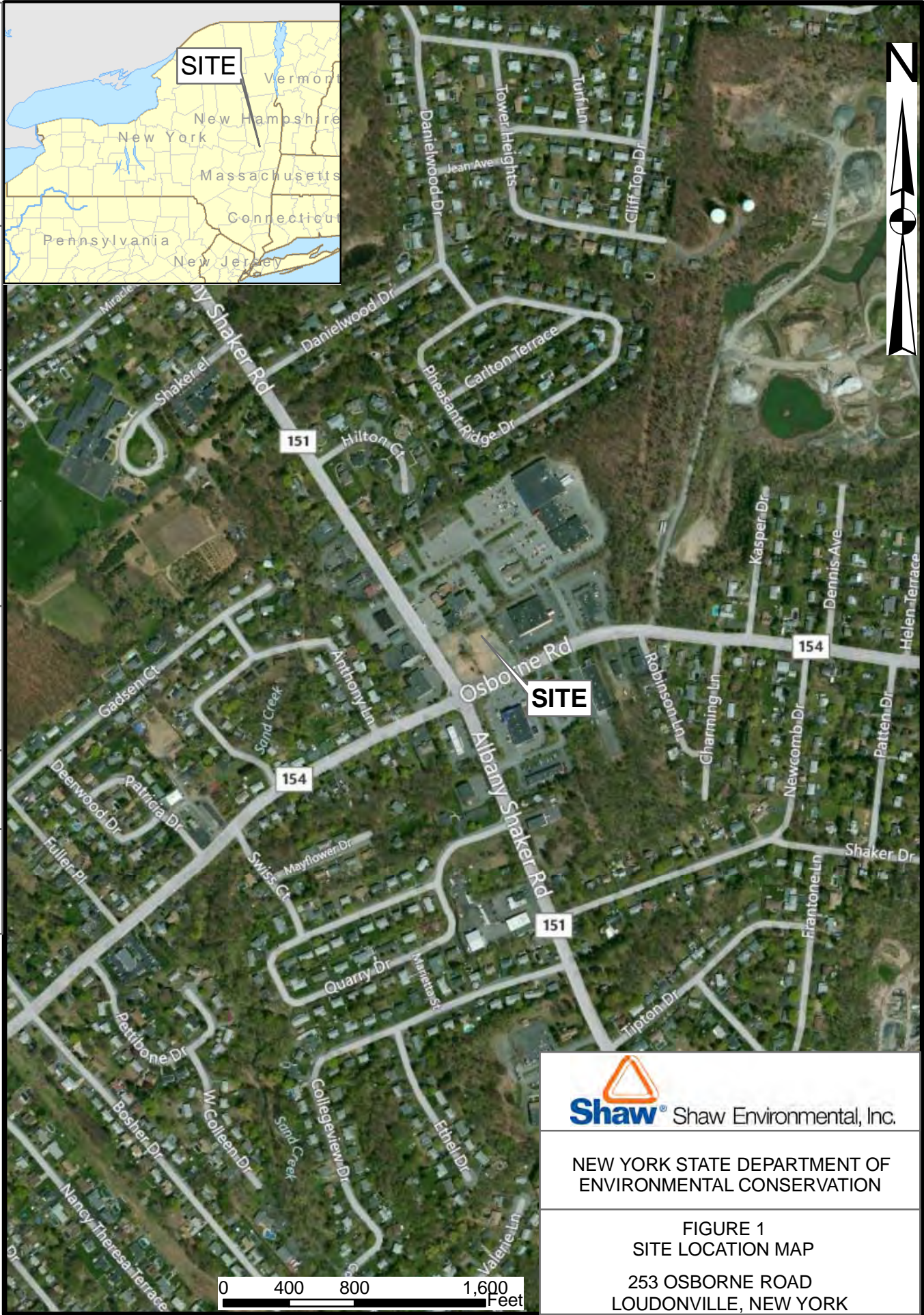
UJ - The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate.

\* = The principal organic contaminant standard for groundwater of 5 µg/l applies to this substance

\*\* = Applies to the sum of cis- and trans-1,3-dichloropropene or 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene



OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
LATHAM, NY	01/05/12	RA	MJS	RA	DS	134685-019A1

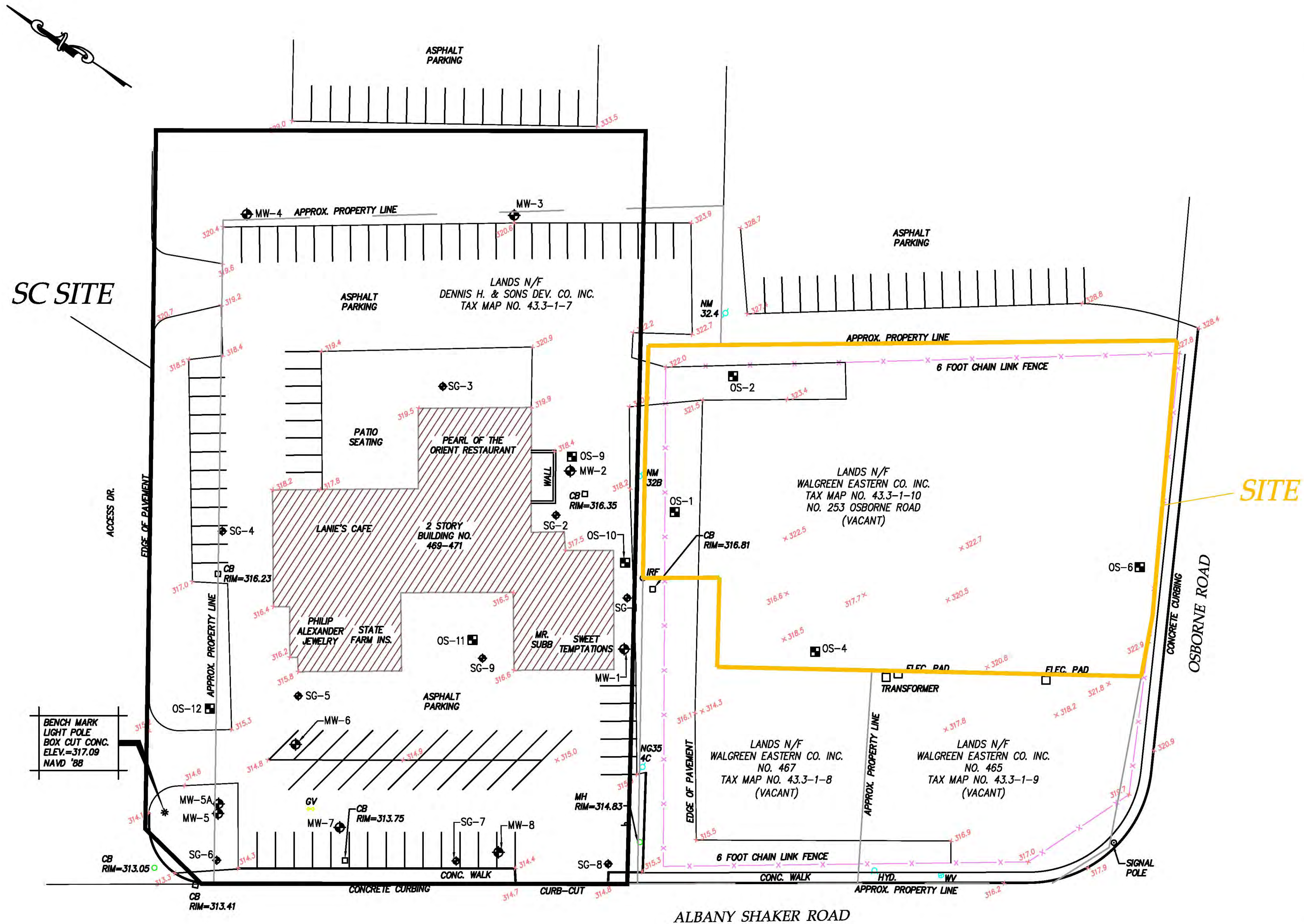


**Shaw** Shaw Environmental, Inc.

NEW YORK STATE DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION

FIGURE 1  
SITE LOCATION MAP  
253 OSBORNE ROAD  
LOUDONVILLE, NEW YORK





- NOTES:
1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS COMPILED FROM AN ACTUAL FIELD SURVEY CONDUCTED DURING THE MONTH OF AUGUST, 2011.
  2. PROPERTY LINES AS SHOWN ON THIS MAP ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON AVAILABLE TAX MAP INFORMATION, AND ARE NOT INTENDED TO REPRESENT ACTUAL BOUNDARY LOCATIONS.
  3. COORDINATES AND ELEVATIONS ARE BASED ON NEW YORK STATE EAST ZONE NAD 83 AND NAVD '88.
  4. NEW MONITOR WELLS (MW) BY SHAW ENVIRONMENTAL. OLDER PRE-EXISTING WELLS BY CPI ENVIRONMENTAL SERVICES INC.
  5. MANHOLES AND CATCH BASINS HAVE BEEN PLOTTED BASED ON FIELD SURVEY. NO ATTEMPT HAS BEEN MADE ON THIS MAP TO CONNECT UNDERGROUND UTILITIES.
- LEGEND:
- |                   |    |
|-------------------|----|
| MONITOR WELL      | MW |
| PRE-EXISTING WELL | OS |
| SOIL GAS POINTS   | SG |

SCALE  
0 30 60 FEET

**Shaw** Shaw Environmental, Inc.

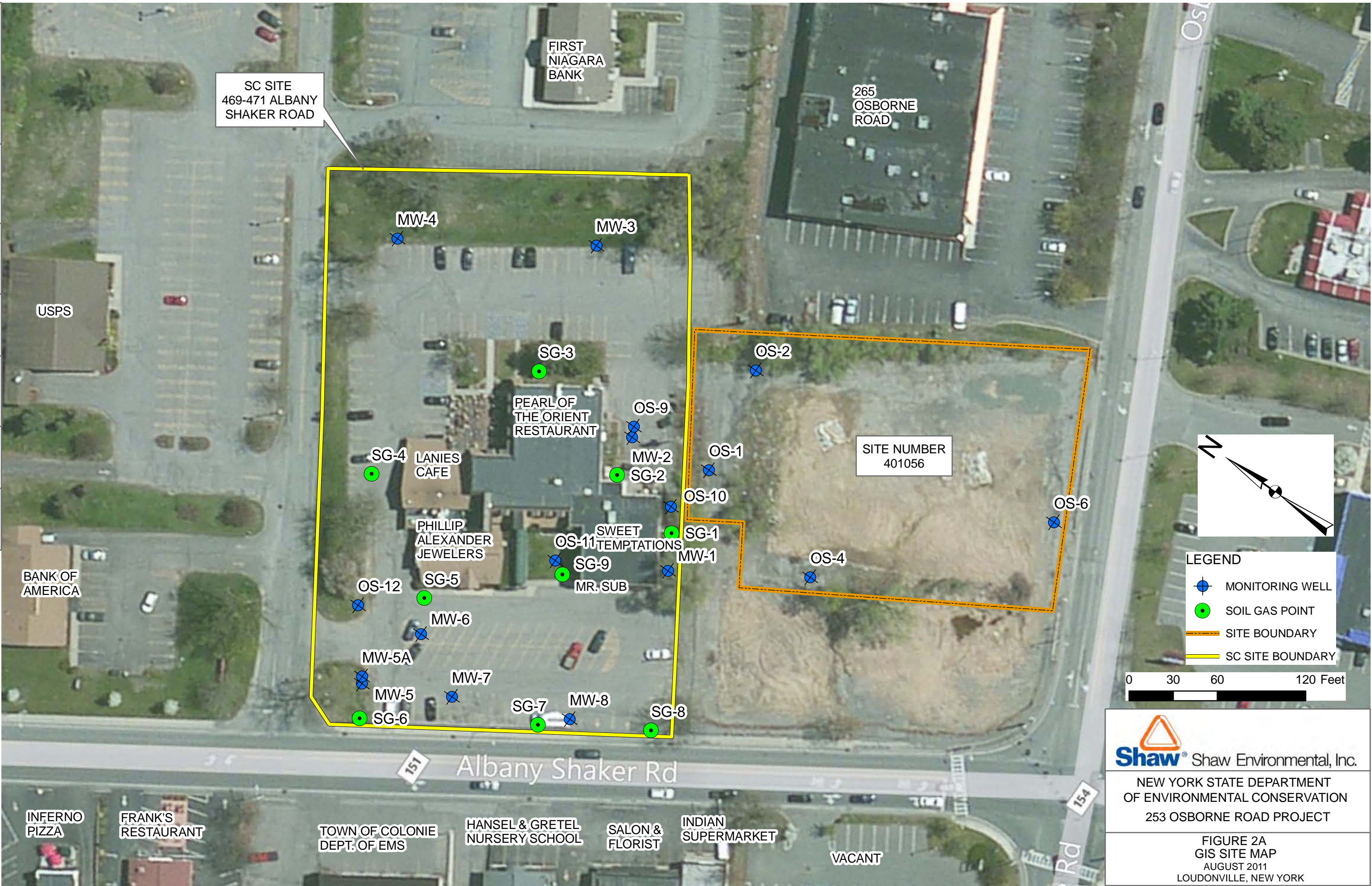
NEW YORK STATE DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION  
LOUDONVILLE, NEW YORK

**FIGURE 2  
SITE SURVEY MAP**

253 OSBORNE ROAD &  
469-471 ALBANY SHAKER ROAD  
LOUDONVILLE, NY 12211



OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
LATHAM, NY	01/10/12	RA	MJS	RA	DS	134685-19B4





OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
LATHAM, NY	01/12/12	RA	MJS	RA	DS	134685-19B3





NOTES:

- 1) ALL RESULTS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg) OR PARTS PER MILLION (PPM)  
2) NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) SOIL CLEAN-UP OBJECTIVES OBTAINED FROM 6 NYCRR PART 375 DECEMBER 14 2006.  
3) NVG - NO STANDARD VALUE LISTED IN 6 NYCRR PART 375.  
4) BOLD - INDICATES ANALYTE DETECTED BY LABORATORY.  
5) J - DATA INDICATES THE PRESENCE OF A COMPOUND THAT MEETS THE IDENTIFICATION CRITERIA . THE RESULT IS LESS THAN THE QUANTITATION LIMIT BUT GREATER THAN THE MDL. THE CONCENTRATION GIVEN IS AN APPROXIMATE VALUE.  
6) J1 - THE ANALYTE WAS POSITIVELY IDENTIFIED; THE ASSOCIATED NUMERICAL VALUE IS AN APPROX. [ ] OF THE ANALYTE IN THE SAMPLE. FLAG FROM DATA USABILITY STUDY.  
7) B - INDICATES COMPOUND WAS DETECTED IN ASSOCIATED METHOD BLANK.

Field Sample ID		MW-5 24-26'
Sample Date		6/14/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	24-26'
Tetrachloroethene	1.3	<b>0.011</b>

Field Sample ID		MW-5A 25-27'
Sample Date		6/15/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	25-27'
Tetrachloroethene	1.3	<b>0.015</b>

Field Sample ID		MW-3 11-13'
Sample Date		6/21/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	11-13'
Trichloroethene	0.47	<b>0.004 J</b>

Field Sample ID		MW-2 9-13	DUP.
Sample Date		6/21/2011	
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	9 - 13'	
cis-1,2-Dichloroethene	0.25	<b>0.0012 J</b>	<b>0.013 J</b>
Trichloroethene	0.47	<b>0.0017 J</b>	<b>0.0022 J</b>
Tetrachloroethene	1.3	<b>0.081</b>	<b>0.120 J<sup>1</sup></b>

Field Sample ID		MW-1 11-13
Sample Date		6/22/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	11- 13'
Tetrachloroethene	1.3	<b>0.065 J<sup>1</sup></b>

Field Sample ID		MW-7 23-25
Sample Date		6/27/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	23- 25'
Tetrachloroethene	1.3	<b>0.0019 J</b>

Field Sample ID		MW-8 34-37
Sample Date		6/23/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	34-37'
Tetrachloroethene	1.3	<b>0.0013 J J<sup>1</sup></b>
Naphthalene	12	<b>0.0013 J J<sup>1</sup></b>

Field Sample ID		MW-8 25-29
Sample Date		6/23/2011
CONSTITUENT (mg/kg)	RSCO (Unrestricted)	25-29'
Trichloroethene	0.47	<b>0.0020 J</b>
Tetrachloroethene	1.3	<b>0.098 B J<sup>1</sup></b>

LEGEND

- MONITORING WELL
- SOIL GAS POINT
- SITE BOUNDARY
- SC SITE BOUNDARY

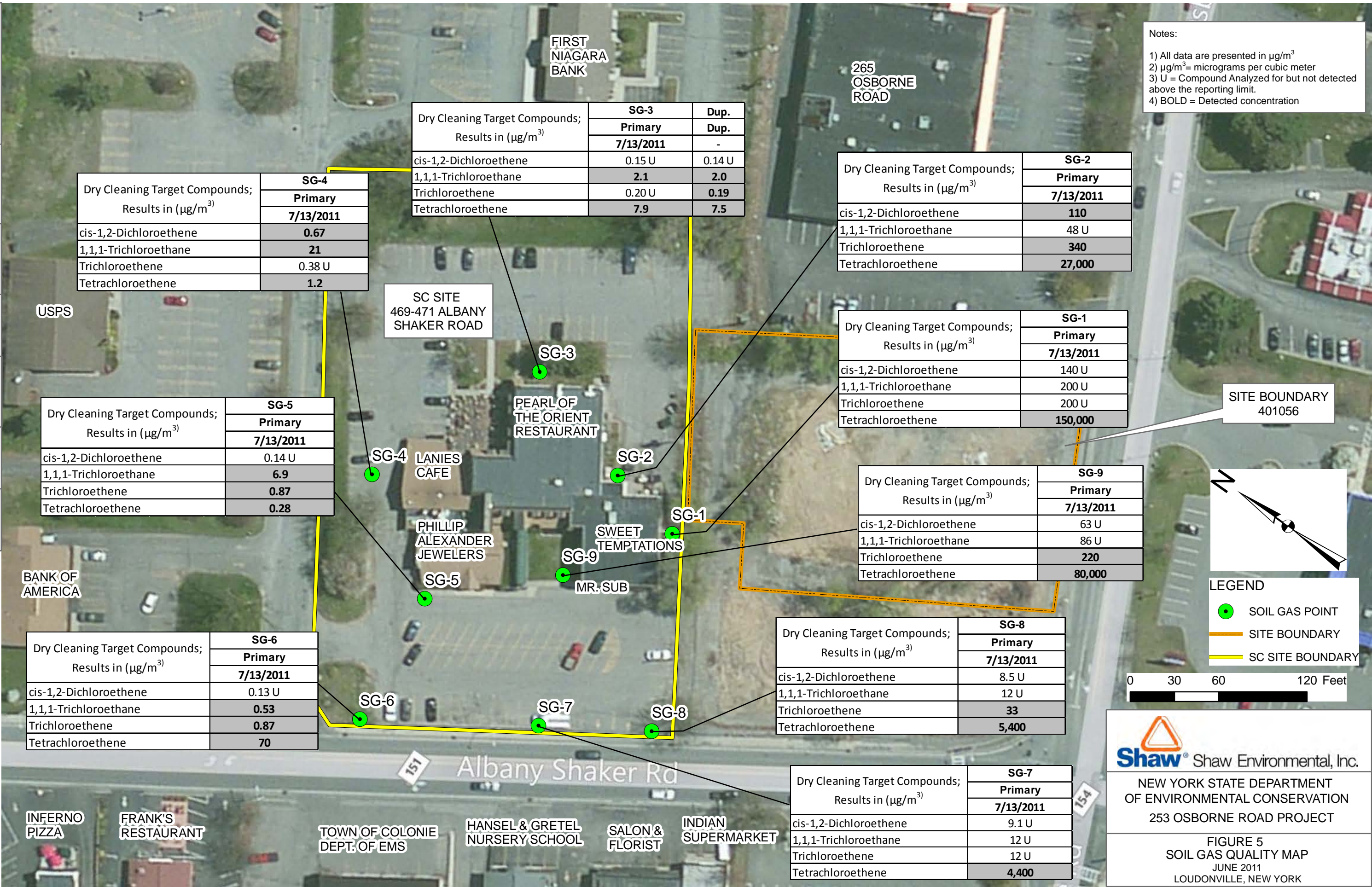
0 30 60 120 Feet

**Shaw** Shaw Environmental, Inc.

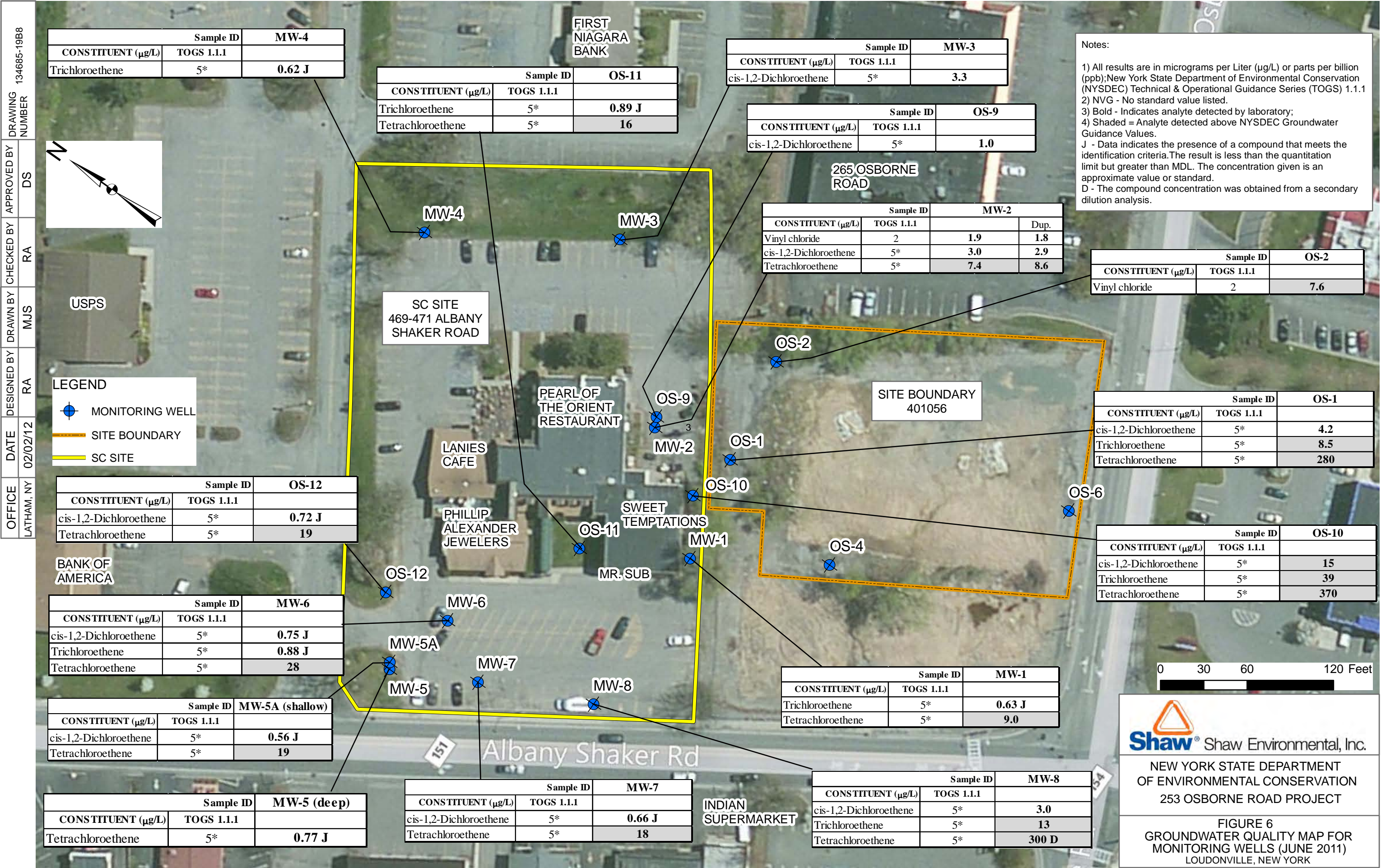
NEW YORK STATE DEPARTMENT  
OF ENVIRONMENTAL CONSERVATION  
253 OSBORNE ROAD PROJECT

FIGURE 4  
SOIL QUALITY MAP  
JUNE 2011  
LOUDONVILLE, NEW YORK













## **Appendix 15**

### **2008 Site Plan Approvals and 2010 Revised PDG-5 Soil Removal Remedial Action Work Plan, 2011 DEC PDG-5 Soil Removal Remedial Action Work Plan Approval Letter, and March/April 2011 Progress Report**



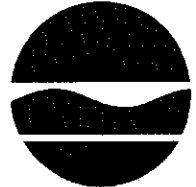
**New York State Department of Environmental Conservation**

**Office of Environmental Quality, Region 4**

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • FAX: (518) 357-2398

Website: www.dec.state.ny.us



Alexander B. Grannis  
Commissioner

August 5, 2008

Anthony Cardona, Esq.  
Osborne Road Associates, LLC  
D'Agostino, Kracheler, Baynes & McGuire, P.C.  
16 Sage Estates  
Troy, NY 12204

RE: Spill #07-02543  
Osborne Plaza  
253 Osborne Road  
Loudonville, NY

Dear Mr. Cardona:

The Department of Environmental Conservation (DEC) and the Department of Health (DOH) have reviewed the work plans and other documents associated with the proposed Order on Consent for the above-referenced spill project on-site work. All documents were submitted on your behalf, by CPI Environmental Services, Inc. (CPI).

After several phone conversations and e-mails, CPI, DOH and DEC have finalized the necessary documents, and this office hereby approves of the following submittal versions/revisions:

- a. Post-Demolition Site Remediation Work Plan, submitted on 6/17/08 (hard copy);
- b. Community Air Monitoring Plan (CAMP), submitted on 7/9/08, at about 4:45 PM;
- c. Health and Safety Plan (HASP), submitted on 7/23/08, at about 2:45 PM;
- d. Site Management Plan (SMP), submitted on 7/22/08, at about 8:30 AM;
- e. Citizen Participation Plan (CPP), submitted on 7/22/08, at about 8:30 AM;
- f. Site Contact List, submitted on 7/22/08, at about 8:30 AM;
- g. Site Map, submitted on 7/22/08, at about 8:30 AM; and
- h. Fact Sheet, submitted on 7/31/08, at about 10:15 AM.

Please proceed with combining, collating and submitting the approved final versions for DOH, DEC, and the document repository (Sanford Library, Loudonville).

Please contact your legal counsel to arrange for the execution of the proposed Order on Consent. (Both Mr. Sommer and Mr. Lesser are being copied on this letter.)

Nothing contained herein constitutes a waiver by the Department of any rights held or to be held under applicable state and/or federal law or the anticipated Order on Consent or a release for any party from any obligations held under those same laws or the Order.

Please contact me at 518-357-2394, if you have any questions.

Sincerely,

Christopher O'Neill, P.E.  
Environmental Engineer 2

cc: D. Sommer, Esq., Young, Sommer, et al ✓

ecc: W. Miller, CPI  
M. Schuck, DOH  
M. Lesser, DEC  
G. Kelly, DEC  
T. Cullen, DEC  
K. Goertz, DEC

**Christopher O'Neill - Submittal of Revised 253 Osborne Road 2011 RAWP for soil removal in vicinity of PDG-5 - HW#401056, and Progress Report**

---

**From:** "William J. Miller, III" <wmiller@continentalplacer.com>  
**To:** "Christopher O'Neill" <cxoneill@gw.dec.state.ny.us>  
**Date:** 3/15/2011 1:40 PM  
**Subject:** Submittal of Revised 253 Osborne Road 2011 RAWP for soil removal in vicinity of PDG-5 - HW#401056, and Progress Report  
**CC:** <mer10@health.state.ny.us>, <smb02@health.state.ny.us>, "Jill Phillips" <jtphilli@gw.dec.state.ny.us>, "Keith Goertz" <kdgoertz@gw.dec.state.ny.us>, "Jim Harrington" <jbharrin@gw.dec.state.ny.us>, "Dean Sommer" <DSommer@youngsommer.com>, "Anthony V. Cardona" <AVC@dkmc-law.com>  
**Attachments:** Revised253Osborne2011\_PDG-5SoilRemovalRAWP\_3-10-11\_.pdf;  
February2011ProgressRpt\_3-10-11\_.pdf

---

Chris,

Please find attached the revised soil removal work plan for the PDG-5 location at 253 Oasborne Road, and the February 2011 progress report.

Cordially,  
Bill Miller

William J. Miller, III  
Senior Hydrogeologist  
Continental Placer Inc.  
2 Winners Circle  
Albany, New York 12205  
(518)458-9203 Ext 305 (Office)  
(518)458-9206 (Fax)  
(518)320-2959 (Cell)



## CONTINENTAL PLACER INC.

11 Winners Circle  
Albany, NY 12205  
(518) 458-9203 Fax (518) 458-9206  
www.continentalplacer.com

March 10, 2011

Mr. Christopher O'Neill, P. E.  
Regional Spill Engineer  
NYSDEC Region IV  
1130 North Westcott Road  
Schenectady, New York 12306

**Re: PDG-5 Soil Removal Remedial Action Work Plan – Revised 3-10-2011**  
**HW# 401056**  
**253 Osborne Road**  
**Town of Colonie, Loudonville, New York**

Dear Mr. O'Neill:

Continental Placer Inc. (CPI) has completed the Post-Demolition Environmental Assessment at 253 Osborne Road in the Town of Colonie, Loudonville, New York pursuant to a June 17, 2008 Revised Site Remediation Work Plan, which was approved by the New York State Department of Environmental Conservation (NYSDEC). Letter reports prepared by CPI dated October 14, 2010 and October 26, 2010 were submitted to the NYSDEC that presented the findings from the post-demolition investigation and the analytical results from sampling staged soil and concrete materials, respectively. One post-demolition soil sample (at the PDG-5 boring location) of the nineteen post-demolition soil samples collected was identified with a soil concentration above the NYSDEC Part 375 unrestricted soil cleanup object for tetrachloroethene (PCE). Although the concentration detected was well within the applicable protection of health commercial soil cleanup objective for PCE and the property is zoned commercial and is being developed commercially, CPI has recommended the removal of soil that was found to exceed unrestricted use concentrations.

This Remedial Action Work Plan (RAWP) presents the approach for implementing a proposed soil removal in the PDG-5 area to comply with the NYSDEC Part 375 unrestricted use soil cleanup objective for PCE (1,300 micrograms per kilogram), which is pursuant to the September 10, 2008 Administrative Order on Consent No. A5-0606-06-08 (Order). This remedial action work plan will be implemented pursuant to all applicable laws. Figure 1 shows the location of the PDG-5 boring location and the area proposed for soil removal.

253 Osborne Road, along with a contiguous parcel on Albany Shaker Road, is in a commercial zone and is being redeveloped for commercial use as a Walgreens Pharmacy and parking area. The property is serviced by municipal water and sewer. It is surrounded by retail and commercial businesses, including a gasoline service station at the corner of Osborne Road and Albany Shaker Road.

### **Remedial Action Work Plan**

Based upon the data gathered pursuant to the June 17, 2008 work plan and other data collected during historical site investigations and remedial actions, CPI proposes that the soil in the vicinity of the PDG-5S/4-5' soil sampling location be excavated and appropriately disposed. Soil field screening and soil sampling will be performed to ensure the removal of soil with concentrations above 1,300 micrograms per kilogram (ug/kg). Confirmatory soil samples will be collected to document soil quality is below NYSDEC Part 375 unrestricted use soil clean-up criteria following the removal action.

It is proposed that soil will be removed from an area of approximately 10 by 15 feet around the PDG-5 soil boring location and to a depth of approximately 8 feet (as shown on Figure 1) based on the existing soil quality data for the site. However, the actual area of soil removal will depend on field screenings and visual observations. A backhoe or track hoe capable of excavating to depths of 12 feet will be utilized to excavate and load the soil onto trucks licensed to haul hazardous materials. Each truck load of soil will be covered prior to leaving the site. If field observations indicate the presence of greater levels of contamination than observed at the PDG-5 boring location, or the presence of underground conveyances from the former dry cleaning space, then additional investigation/remedial work will be performed.

After soil excavation, post-excavation confirmatory soil samples will be collected from each excavation side wall and from the base of the excavation pursuant to NYSDEC's DER-10. Two soil samples (top and bottom) will be collected from each side wall and one soil sample will be collected from the bottom of the excavation. These samples will be analyzed for volatile organic compounds (VOCs) using USEPA method 8260. The excavation will remain open until the confirmatory soil sample analytical results are received. The excavation will be enclosed with temporary fencing and the entire site is also enclosed with chain link fencing and a locked gate. If the analytical results for the excavation confirmation soil samples are below the unrestricted soil cleanup objectives then the excavation will be backfilled with clean fill. If soil is determined to be greater than the 6 NYCRR Part 375 unrestricted soil cleanup objective for PCE then additional soil will be removed for disposal, and additional post excavation soil sampling will be performed to confirm soil conditions after the additional soil removal. It is anticipated that Test America will be performing the analyses and Mr. Don Anne of Alpha Geoscience will perform data validation.

If saturated soils are encountered then each excavator bucket will be held over the excavation until significant drainage from the bucket has ceased, and only then will the soil material will be loaded into the transport truck. If groundwater accumulates in the excavation, then a water sample will be collected and analyzed using EPA method 8260.

As with the previous removal actions at this site, CPI has requested a contained-in determination for the excavated soil to allow a soil 'load and go' approach with disposal at the ESMI soil burning



facility in Fort Edward, New York. The NYSDEC has granted contained-in determinations at this Site in the past. The 'load and go' approach will eliminate the need for soil staging and contribute to the sustainability of the soil remediation (i.e., less vehicular mobilizations and engine emissions, and no need for on-site polyethylene liners and covers).

The site management plan (SMP) dated July 21, 2008, the health and safety plan (HASP) dated July 23, 2008, and the community air monitoring plan (CAMP) dated July 9, 2008, which have been submitted to and approved by NYSDEC will be implemented throughout the course of the soil removal activities. A description of the planned institutional controls for this site and commitment to implement the controls was provided in the June 17, 2008 Work Plan.

NYSDEC will be provided with a notice prior to the soil removal activities. NYSDEC will also be provided with a report on the implementation of the work plan within ninety days after completion of the soil removal activities. This report will include descriptions of the excavation activities, environmental media management, disposal documentation, confirmation sampling details, laboratory data, validator reports, data evaluations, and conclusions regarding the removal action.

It is the professional opinion of CPI that the implementation of this RAWP eliminates any residual significant threat, if any, at the property for which the prior owner took responsibility and allows the contemplated commercial redevelopment to proceed. If you have any questions, please do not hesitate to contact me.

Cordially,



William J. Miller, III  
Director, Environmental Services/Sr. Hydrogeologist

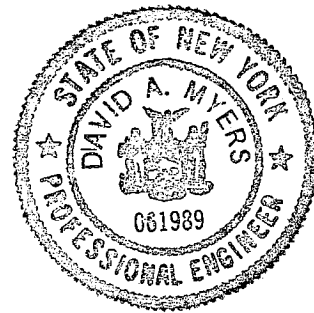
cc Tony Cardona, Esq., 253 Osborne Road Associates  
Dean Sommer, Esq., Young, Sommer et al  
Jim Harrington, NYSDEC DER  
Steven Bates, NYSDOH  
Jill Phillips, Esq., NYSDEC  
Maureen Schuck, NYSDOH

### Certification

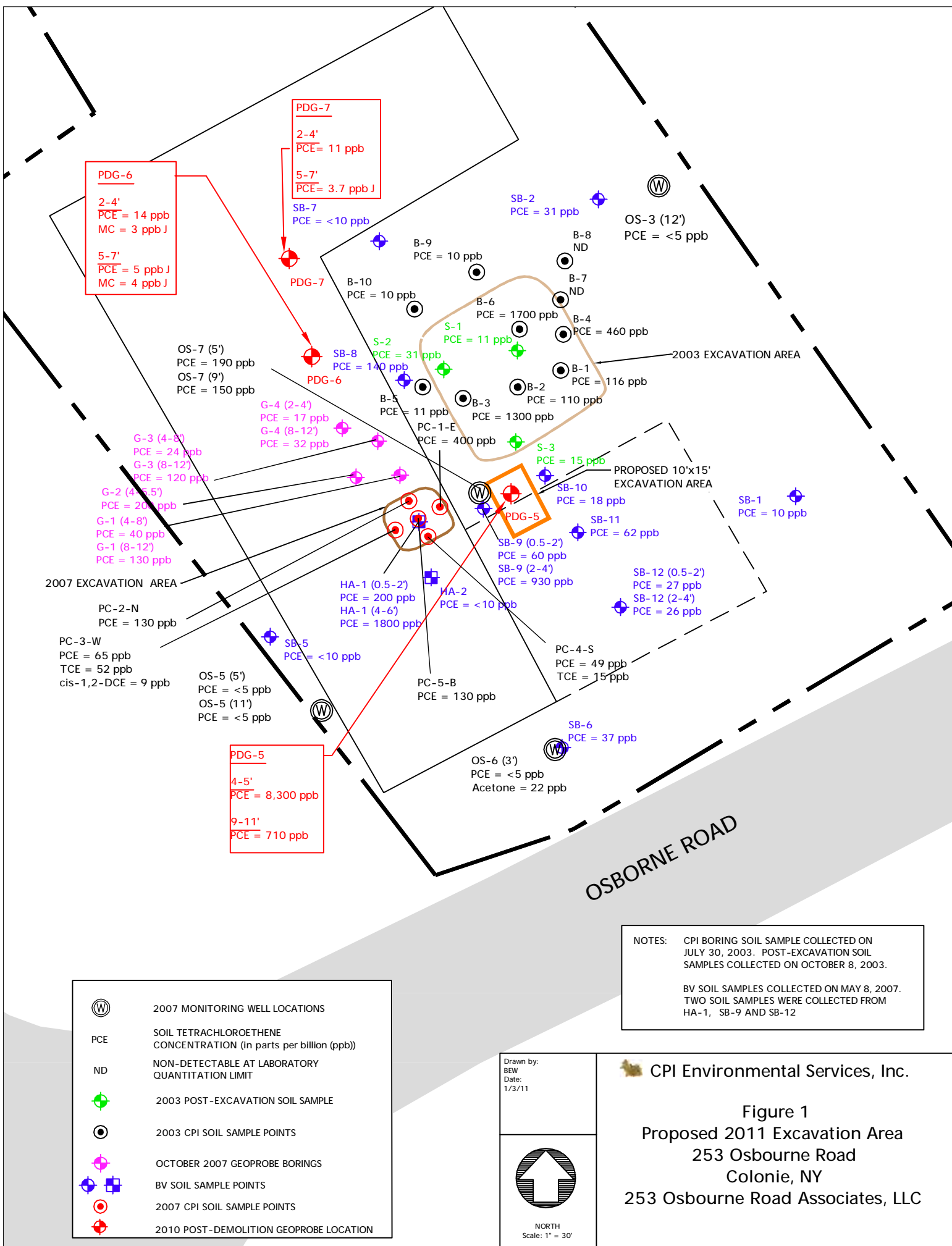
*I, David A. Myers, P.E., certify that I am currently a New York State registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).*

David A Myers  
Signature

3/10/11  
Date



**FIGURE**



# New York State Department of Environmental Conservation

## Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • Fax: (518) 357-2398

Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Joe Martens  
Commissioner

April 27, 2011

### **CERTIFIED MAIL-RETURN RECEIPT REQUESTED**

**7010 1870 0000 9239 7044**

**7010 1870 0000 9239 7051**

Tony Cardona  
Osborne Road Associates, LLC  
D'Agostino, Krackler, Baynes & Maguire  
16 Sage Estates  
Menands, NY 12204

Dean Sommer, Esq.  
Young, Sommer and Associates, LLC  
Counselors at Law  
Executive Woods  
Five Palisades Drive  
Albany, NY 12205

RE: Order on Consent # A5-0606-06-08  
Site # 401056  
253 Osborne Road  
Former Osborne Plaza  
Loudonville, New York

Dear Mr. Cardona and Mr. Sommer:

The New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) received a revised soil removal workplan on March 15, 2011 for the above-referenced project. The revised workplan was submitted by Continental Placer Inc. (CPI) on behalf of Osborne Road Associates, LLC (Osborne LLC). The revised workplan, entitled "PDG-5 Soil Removal Remedial Action Work Plan – Revised 3-10-2011" (March 2011 Soil Removal Workplan), was revised to address NYSDEC and NYSDOH comments identified in a letter dated February 7, 2011.

The March 2011 Soil Removal Workplan is hereby approved subject to the following modifications/clarifications:

1. The soil cleanup objectives for the PDG-5 area workplan are the 6NYCRR Part 375 Unrestricted Soil Cleanup Objectives (Unrestricted SCO) for each volatile organic

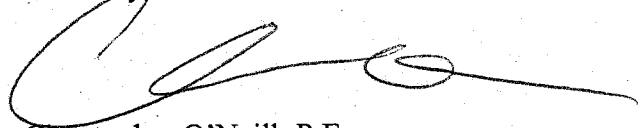
chemical reported under USEPA Method 8260, not just tetrachloroethene (PCE). {The February 2011 comment letter referenced PCE Unrestricted SCO as an example, not as the only target chemical. The March 2011 Soil Removal Workplan uses both generic SCO references and PCE-specific SCO references.}

2. NYSDEC must be notified at least five days prior to commencing the workplan implementation. {The February 2011 comment letter was specific about this notice, but the March 2011 Soil Removal Work Plan did not specify the five days minimum notice.}
3. The attached NYSDEC management directive letter requires that the laboratory data produced by the March 2011 Soil Removal Work Plan, along with future data and a subset of historical data, to be submitted in Electronic Data Deliverable (EDD) format. {Section II.E.3 of the executed Order on Consent requires submittals in electronic format acceptable to the NYSDEC. The attached directive letter specifies EDD for laboratory data, updates the communication contact information, and clarifies the submittal of "PDF-version" reports with hardcopies on an "as needed" basis.}

Please verify your agreement/acceptance of the above-listed modifications/clarifications by June 15, 2011. Upon your agreement/acceptance, the previously-drafted Contained-In Determination letter will be finalized. If your agreement/acceptance notice is not received by that date, then the March 2011 Soil Removal Work Plan is unapproved, and this office may pursue appropriate enforcement actions as provided by the Order and/or applicable statutes and regulations.

Please contact Jill Phillips, Esq. at 518-357-2373 if you have any legal questions about this project. Feel free to contact me at 518-357-2394 if you have any technical questions about this project.

Sincerely,



Christopher O'Neill, P.E.  
Environmental Engineer 2

Attachment

ec: W. Miller, CPI  
S. Bates, NYSDOH  
M. Schuck, NYSDOH  
J. Phillips, NYSDEC  
R. Cozzy, NYSDEC  
K. Goertz, NYSDEC

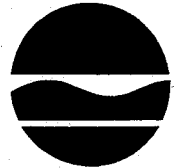
# New York State Department of Environmental Conservation

## Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, New York 12306-2014

Phone: (518) 357-2045 • Fax: (518) 357-2398

Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Joe Martens  
Commissioner

April 27, 2011

Tony Cardona  
Osborne Road Associates, LLC  
D'Agostino, Krackler, Baynes & Maguire  
16 Sage Estates  
Menands, NY 12204

Dean Sommer, Esq.  
Young, Sommer and Associates, LLC  
Counselors at Law  
Executive Woods  
Five Palisades Drive  
Albany, NY 12205

RE: Order on Consent # A5-0606-06-08  
Site # 401056  
253 Osborne Road  
Former Osborne Plaza  
Loudonville, New York

Dear Mr. Cardona and Mr. Sommer:

The New York State Department of Environmental Conservation (Department) has issued the following directive which pertains to document and data submissions to the Department for the above-referenced project.

The Department has implemented an Environmental Information Management System (EIMS). The EIMS uses the database software application EQuIS™ from EarthSoft® Inc. In an effort to better manage environmental data and expand the Department's goal of reducing paper, DEC is reminding you of the regulatory requirement pursuant to 6 NYCRR 375-1.11(a), which states:

"(a) Submissions to the Department. All work plans; reports, including all attachments and appendices, and certifications, submitted by a remedial party shall be submitted in print, as well as in an electronic format acceptable to the Department."

In addition, remedial orders, agreements and contracts frequently provide for submission in an electronic format acceptable to the Department. The Department also has the authority to request amendments to work plans.

This requirement extends to all data submissions. Effective immediately, all data submitted to the Division of Environmental Remediation (DER) must be in the Department-approved Electronic Data Deliverable (EDD). Moreover, new data must be submitted on a continuous basis immediately after data validation

occurs but in no event more than 90 days after the data has been submitted to the remedial party or its consultant(s). In other words, data is not to be held until the related reports are submitted. Additionally, DER will provide templates to use for presenting data in reports and documents, as soon as they are available.

The Department will not approve a report or submission unless the data for the site has been submitted in the EDD format and approved.

The DER project manager is the point of contact for project-specific questions regarding this issue. Historical data will also be entered into EQUIS. The DER project manager will work with you relative to what historic data needs to be provided in the required EDD format. Technical questions regarding DEC's EDD format that cannot be answered by the project manager should be directed to Elaine Zuk, the Chief of DER's Information Management Section, by e-mail at [NYENVDATA@gw.dec.state.ny.us](mailto:NYENVDATA@gw.dec.state.ny.us). Please refer to DEC's website for additional information.

Information on the format of data submissions can be found at  
<http://www.dec.ny.gov/chemical/62440.html>

Information on electronic document submissions can be found at  
<http://www.dec.ny.gov/regulations/2586.html>

The website will be updated continuously.

In addition, the reports and document submissions for this project should continue to be electronic "PDF-format", unless a specific request is made by the Department for paper copies. The following project management contact information is provided for your reference:

**Department of Environmental Conservation Contacts:**

Project Manager: Christopher O'Neill, P.E.  
NYS Department of Environmental Conservation  
1130 N. Westcott Road  
Schenectady, NY 12306  
518-357-2394  
[cxoneill@gw.dec.state.ny.us](mailto:cxoneill@gw.dec.state.ny.us)

Project Attorney: Jill Phillips, Esq.  
NYS Department of Environmental Conservation  
1130 N. Westcott Road  
Schenectady, NY 12306  
518-357-2373  
[jtphilli@gw.dec.state.ny.us](mailto:jtphilli@gw.dec.state.ny.us)

**Department of Health Contacts:**

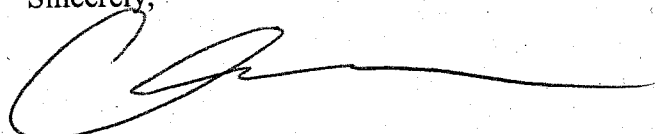
Project Manager: Maureen Schuck  
Bureau of Environmental Exposure Investigation  
NYS Department of Health  
Flanigan Square  
547 River Street  
Troy, NY 12180-2216  
[mer10@health.state.ny.us](mailto:mer10@health.state.ny.us)



Project Contact: Steven Bates  
Bureau of Environmental Exposure Investigation  
NYS Department of Health  
Flanigan Square  
547 River Street  
Troy, NY 12180-2216  
[smb02@health.state.ny.us](mailto:smb02@health.state.ny.us)

Feel free to contact Robert Cozzy, of the Department's Central Office, at 518-402-9768 if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'C. O'Neill', with a long horizontal flourish extending to the right.

Christopher O'Neill, P.E.  
Environmental Engineer 2

cc: S. Bates, DOH  
M. Schuck, DOH  
R. Cozzy, DEC  
J. Phillips, DEC  
K. Goertz, DEC  
W. Miller, CPI

CO:jh\consent.sp401056.2011-04-27.FormerOsbornePlaza

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Total Postage & Fees	\$	

Sent To Tony Cardona  
 Street, Apt. No. 116 Sages Estates  
 or PO Box No. Menards NY 12204  
 City, State, ZIP+4 Menards NY 12204

PS Form 3800, August 2006

See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Tony Cardona  
Osborne Rel Assoc. LLC  
D'Agostaro, Krackler, Bayes  
116 Sage Estates  
Menards - NY 12204

2. Article Number

(Transfer from service label)

7010 1870 0000 9239 7044

PS Form 3811, February 2004

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature Samuel Clementi ☐ Agent  
☒ Addressee

B. Received by (Printed Name) Sam Clementi

C. Date of Delivery 4/29

D. Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

102595-02-M-1540

**Christopher O'Neill - April 2011 Progress Report - Osborne Plaza, Loudonville, HW#401056**

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**From:** "William J. Miller, III" <wmiller@continentalplacer.com>  
**To:** "Christopher O'Neill" <cxoneill@gw.dec.state.ny.us>  
**Date:** 5/9/2011 1:08 PM  
**Subject:** April 2011 Progress Report - Osborne Plaza, Loudonville, HW#401056  
**CC:** <mer10@health.state.ny.us>, <smb02@health.state.ny.us>, "Jill Phillips" <jtphilli@gw.dec.state.ny.us>, "Keith Goertz" <kdgoertz@gw.dec.state.ny.us>, "Dean Sommer" <DSommer@youngsommer.com>, "Anthony V. Cardona" <AVC@dkmc-law.com>  
**Attachments:** April2011ProgressRpt\_5-9-11.pdf

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Chris,

Please find attached teh April 2011 progress report for 253 Osborne Road.

Bill Miller

William J. Miller, III  
Senior Hydrogeologist  
Continental Placer Inc.  
2 Winners Circle  
Albany, New York 12205  
(518)458-9203 Ext 305 (Office)  
(518)458-9206 (Fax)  
(518)320-2959 (Cell)



## CONTINENTAL PLACER INC.

11 Winners Circle  
Albany, NY 12205  
(518) 458-9203 Fax (518) 458-9206  
www.continentalplacer.com

May 9, 2011

Mr. Christopher O'Neill, P. E.  
Project Manager  
Division of Environmental Remediation  
NYSDEC Region IV  
1130 North Westcott Road  
Schenectady, New York 12306

**Re: March/April 2011 Progress Report  
HW#401056  
253 Osborne Road  
Town of Colonie, Loudonville, New York**

Dear Chris:

This letter serves as the Progress Report for the above referenced site for March and April 2011, pursuant to Paragraph III of the September 10, 2008 Administrative Order on Consent No. A5-0606-06-08 (Order). The following summarizes activities performed in March and April 2011.

### **Progress Report**

In March 2011, the Respondent, LLC submitted a revised remedial action work plan to New York State Department of Environmental Conservation (NYSDEC) addressing comments from the NYSDEC in a February 7, 2011 letter. No other activities occurred in March 2011. The Respondent, LLC received a letter dated April 27, 2011 approving the revised March 2011 work plan given agreement/acceptance of a few modifications. The Respondent, LLC agrees/accepts the modifications listed in the April 27, 2011. Planning for implementation of the work plan will be initiated.

Mr. Chris O'Neill  
253 Osborne Road April 2011 Progress Report  
HW #401056  
May 9, 2011  
Page 2

No other action items for this site have occurred. If you have any questions or comments, please do not hesitate to contact me.

Yours truly,

A handwritten signature in black ink, appearing to read 'WJ Miller III', written in a cursive style.

William J. Miller, III  
Senior Hydrogeologist

cc Steven Bates, NYSDOH  
Jill Phillips, Esq., NYSDEC  
Anthony Cardona, Esq., 253 Osborne Road Associates, LLC  
Dean Sommer, Esq., Young, Sommer et al