



March 01, 2012

Ramon C. Mendoza,  
On Scene Coordinator  
Emergency Response Branch 2  
Superfund Division  
USEPA Region 5  
77 W. Jackson Blvd. Chicago, IL. 60604

**Subject:           Second Round Periodic Air and Ground Water Monitoring Update  
Sandies Dry Cleaner SA  
Little Chute, Outagamie County, Wisconsin  
Technical Direction Document No. TO-01-11-08-0020  
OTIE Contract No. EP-S5-10-10**

Dear Mr. Mendoza:

OTIE is submitting the enclosed second round periodic air monitoring update in Attachment A and second round ground water monitoring update in Attachment B for the Sandies Dry Cleaner Site in Little Chute, Wisconsin. If you have any questions or comments about the report or need additional copies, please contact me at (312) 220-7000 or Raghu Nagam at (312) 220-7005.

Sincerely,

A handwritten signature in black ink, appearing to read 'Naren Babu', is written over a light blue horizontal line.

for  
Naren Babu  
Project Manager

Enclosure

cc:     Raghu Nagam, START Program Manager

ATTACHMENT A  
SECOND ROUND PERIODIC AIR MONITORING UPDATE



100 West Monroe, Suite 300, Chicago, IL 60603

March 01, 2012

Ramon C. Mendoza,  
On Scene Coordinator  
Emergency Response Branch 2  
Superfund Division  
USEPA Region 5  
77 W. Jackson Blvd. Chicago, IL. 60604

*Subject: Second Round Periodic Air Monitoring Update  
Sandies Dry Cleaner & Laundry Site-RV  
Little Chute, Outagamie County, Wisconsin  
Technical Direction Document (TDD) No. TO-01-11-08-0020  
OTIE Contract No. EP-S5-10-10*

Dear Mr. Mendoza:

Second round of Periodic Indoor Air Monitoring

The U.S.EPA is implementing an indoor air monitoring program at the Sandies Dry Cleaner and Laundry Removal Action Site (Site) in Little Chute, Wisconsin. As part of this monitoring program, U.S.EPA and its START contractor OTIE collected indoor air samples from and around the Site and evaluated the occurrence and distribution of dry cleaning related chemicals. START activities were conducted under U.S.EPA contract No: EP-S5-10-10 under TDD Number TO-01-11-08-0020. A total of five SUMMA samples have been collected. Indoor vapor samples were collected using SUMMA canisters following guidelines of U.S. EPA Region 5 Vapor Intrusion Guidebook (U.S. EPA Region 5, 2010).

Background

Prior to the removal action, U.S.EPA conducted a site assessment and also collected indoor air samples from the site and from the neighboring properties to the north and south of the site. Indoor air samples were collected using SUMMA canisters over a 24-hr period and analyzed for Volatile Organic Compounds (VOCs). Analytical results indicated the presence of tetrachloroethylene (PCE) at the site as well as in the commercial/residential building to the north of the site. PCE contamination was not found in the commercial/residential building to the south of the site.

The U.S.EPA completed a Site Removal Action in October 2011 at the Site during which time PCE contaminated soil was removed and disposed of at a landfill following all State and Federal regulations. The excavated areas were subsequently backfilled and restored with clean soil. Since all of the PCE contaminated soil could not be removed, the U.S.EPA installed a vapor abatement system both on the ground floor and the basement of the site building. The vapor abatement system consisted of slotted PVC pipes buried under soil/gravel with venting to the outside atmosphere assisted by fans.

Indoor Air Monitoring

After installing the vapor abatement system, U.S.EPA and its START contractor collected indoor air samples with SUMMA canisters. All indoor air samples were collected over a 24-hr period. The objective of the post-removal air monitoring program was to evaluate the effectiveness of the removal action in abating PCE vapors both on-site and in neighboring properties and to monitor the indoor air over a period of time that was to be determined at a later stage.

On October 20, 2011, an indoor air sample was collected from a residence located to the southwest of the site. An air sample from the residence was collected on the request of the owner who had expressed concern for PCE exposure because of his proximity to the Site. Analytical results indicated no PCE or its daughter compounds; no site attributed contaminants were present in this residence. A sample description summary for the SUMMA canisters is shown in Table 1 and analytical results for PCE and daughter compounds are shown in Table 2.

First Round Periodic Indoor Air Monitoring

On November 3, 2011, EPA OSC Mendoza and START conducted periodic air monitoring at the Site. Four SUMMA canister samples were setup to collect 24-hr air samples from locations on and surrounding the Site. One sample was collected from Site facility, two from Weenies bar directly north of the Site, one from the bakery building directly south of the Site. A sample description summary for the SUMMA canisters is shown in Table 1 and analytical results for PCE and daughter compounds are shown in Table 2.

Analytical results were compared to the Wisconsin Department of Natural Resources (WDNR) residential and non-residential indoor air vapor action limits (VAL) (U.S. EPA, 2011a) and the Agency for Toxic Substances and Disease Registry (ASTDR) residential removal action level provided in the Site Action Memo (U.S. EPA, 2011b). Samples 513 GND-GL-02 and 505 GND-BL-01 were above the WDNR residential indoor air VAL, but below the ASTDR residential removal action level. Post Removal action indoor air sampling indicated a complete reduction in PCE and its daughter compounds in the commercial/residential property to the north of the site and a significant decrease (97%) of PCE in on-site air. The analytical result for the bakery building south of the site indicated an increase (220%) in detected PCE contamination and requires further monitoring.

The sub-slab system at Sandies has an exhaust pipe at the chimney exit. EPA and START measured the level of PCE inside the exhaust pipe (24-hr Sample ID 513 GND-GL-01) and the ambient air under the exhaust pipe on the roof (24-hr Sample ID 513 GND-R-01). In addition, a background level of PCE was collected at the Village Hall roof (108 Main-R-01). Results for the background sample was non-detect. PCE result for the exhaust pipe was 150ppbv. However the roof sample had 0.49 ppbv of PCE (3.32 µg/m<sup>3</sup>) which is below the Wisconsin DNR Ambient air standard for PCE ( annual 24-hr average 4,069 micrograms per cubic meter \*)

#### Second Round Periodic Indoor Air Monitoring

On January 31, 2012, START conducted second round of periodic air monitoring at the Site. Four SUMMA canister samples were setup to collect 24-hr air samples from locations on and surrounding the Site. One sample was collected from Site facility, two from Weenies bar directly north of the Site, one from the bakery building directly south of the Site. START performed a leak test on each of the SUMMA canisters prior to sample collection; all canisters passed the leak test. START did not have keys to the apartment located on the second floor of the site. After obtaining the access to the second floor apartment, WDNR set up an additional 24-hr SUMMA sample inside the apartment on February 6, 2012. 24-hr air samples were picked up on February 1, 2012 and February 7, 2012 and were shipped to STAT Analysis Corporation for VOCs analysis. Detailed sampling locations are shown in Table 1 and analytical results for PCE and PCE daughter compounds trichloroethylene (TCE), dichloroethylene (DCE), and vinyl chloride (VC) for each of the five samples analyzed are shown in Table 2. SUMMA sampling locations are shown in Figure 1- Second Round Periodic SUMMA Sampling Location Map.

In addition to the ambient air sampling, START conducted perimeter air monitoring using RAE Systems ppbRAE instrument. The ppbRAE has a photoionization detector (PID) and measures total VOCs in the air. All ppbRAE readings collected from inside the site building and during the perimeter walkthrough around the site were non-detects.

\*See Hazardous Air Contaminant # 379 in Table A of s. NR 445.07, Wis. Adm. Code:

<http://legis.wisconsin.gov/rsb/code/nr/nr445.pdf>

**Table 1**  
**SUMMA Canister Air Sample Identification Summary**  
**Sandies Dry Cleaner & Laundry-RV**  
**Little Chute, WI**

<b>Sample ID</b>	<b>Sample Date</b>	<b>Sample Location Description</b>	<b>Building Address (Little Chute, WI)</b>
121 Lincoln Basement	11/20/11	Basement of Residential Property	121 Lincoln Ave
513 GND-GL-01	11/3/11	Sub Slab Vent on Ground Level at Sandies DC&L	513 Grand Ave
513 GND-GL-02	11/3/11	Main Room Ground Level at Sandies DC&L	513 Grand Ave
513 GND-R-01	11/3/11	On Ledge of Roof of Sandies DC&L	513 Grand Ave
505 GND-BL-01	11/3/11	Basement Level of Bakery at bottom of steps near hole in the floor	505 Grand Ave
108 Main-R-01	11/3/11	Roof of City Building	108 Main St
515 GND-BL-01	11/3/11	Basement Level of Weenies on Cabinet Edge Against Wall	515 Grand Ave
515 GND-UL-01	11/3/11	Living Room of Apartment Above Weenies	515 Grand Ave
513-Grand-1st-Flr	2/1/12	Main Room Ground Level at Sandies DC&L	513 Grand Ave
515-Grand-Bsmnt	2/1/12	Basement Level of Weenies on Cabinet Edge Against Wall	515 Grand Ave
515-Grand-Upstairs	2/1/12	Living Room of Apartment Above Weenies	515 Grand Ave
505-Grand-Bsmnt	2/1/12	Basement Level of Bakery at bottom of steps near hole in the floor	505 Grand Ave
513-Grand-UL-2612	2/7/12	Apartment Above Sandies	513 Grand Ave

**Table 2**  
**Periodic Air Monitoring Analytical Results for PCE and Daughter Compounds**  
**Sandies Dry Cleaner & Laundry-RV**  
**Little Chute, WI**

Analyte		Sample Date	PCE	TCE	DCE	VC
Action Levels (ppbv)	WDNR Residential Indoor Air VAL			0.6	1.8	16
	WDNR Non-Residential Indoor VAL		3	8	65	11
	ASTDR Residential Removal Action Level		3	--	--	--
First Round Sampling October/November 2011 Results (ppbv)	121 Lincoln Basement	10/20/2011	ND	ND	ND	ND
	513 GND-GL-02	11/3/2011	<b>0.89</b>	ND	ND	ND
	505 GND-BL-01	11/3/2011	<b>2.5</b>	ND	ND	ND
	515 GND-BL-01	11/3/2011	ND	ND	ND	ND
	515 GND-UL-01	11/3/2011	ND	ND	ND	ND
Second Round Sampling February 2012 Results (ppbv)	513-Grand-1st-Flr	2/1/12	ND	ND	ND	ND
	515-Grand-Bsmnt	2/1/12	ND	ND	ND	ND
	515-Grand-Upstairs	2/1/12	ND	ND	ND	ND
	505-Grand-Bsmnt	2/1/12	<b>1.1</b>	ND	ND	ND
	513-Grand-UL-2612	2/7/12	ND	ND	ND	ND

Notes:

Samples were collected over a 24-hour beginning on the sample date shown in the table

Analysis of sample collected on 10/20/11 was conducted and reported by Test America Laboratories

Analysis of samples collected on 11/3/11, 2/1/12 and 2/7/12 were conducted and reported by STAT Analysis Corporation

**Bold** – indicates analytical result exceeded WDNR Residential Indoor Air VAL

**Bold** – indicates analytical result exceeded WDNR Residential and Non-Residential Indoor Air VAL and ASTDR Residential Removal Action Level

-- - indicates that ASTDR did not provide a Residential Removal Action Limit

Acronyms:

ppbv – parts per billion by volume

VAL-Vapor Action Level

PCE- tetrachloroethylene

TCE- trichloroethylene

DCE – dichloroethylene

VC – vinyl chloride

### Analytical Results

Analytical results in Table 2 were compared to the Wisconsin Department of Natural Resources (WDNR) residential and non-residential indoor air vapor action limits (VAL) (U.S. EPA, 2011a) and the Agency for Toxic Substances and Disease Registry (ASTDR) residential removal action level provided in the Site Action Memo (U.S. EPA, 2011b). Analytical results of the sample collected from the basement level of the Bakery, Sample ID 505-Grand-Bsmnt, exceeded the WDNR residential indoor air VAL, but were below the WDNR non-residential indoor air VAL and ASTDR residential removal action level.

Post-Removal action indoor air sampling indicated a complete reduction in PCE and its daughter compounds in the indoor air of the site property and the commercial/residential property to the north of the site. The analytical result for the bakery building south of the site indicated a significant decrease (56%) in detected PCE contamination since the first round monitoring in November 2011.

Enclosed with this letter are Figure 1 and Attachment A- Analytical Data Validation. If there are any questions, please call my cell phone at (312) 656-7685 or contact me via e-mail at nbabu@otie.com. Sincerely,

Naren Babu  
Staff Engineer  
Oneida Total Integrated Enterprises

Figure 1: SUMMA Sampling Location Map  
Attachment A: Analytical Data Validation

**References**

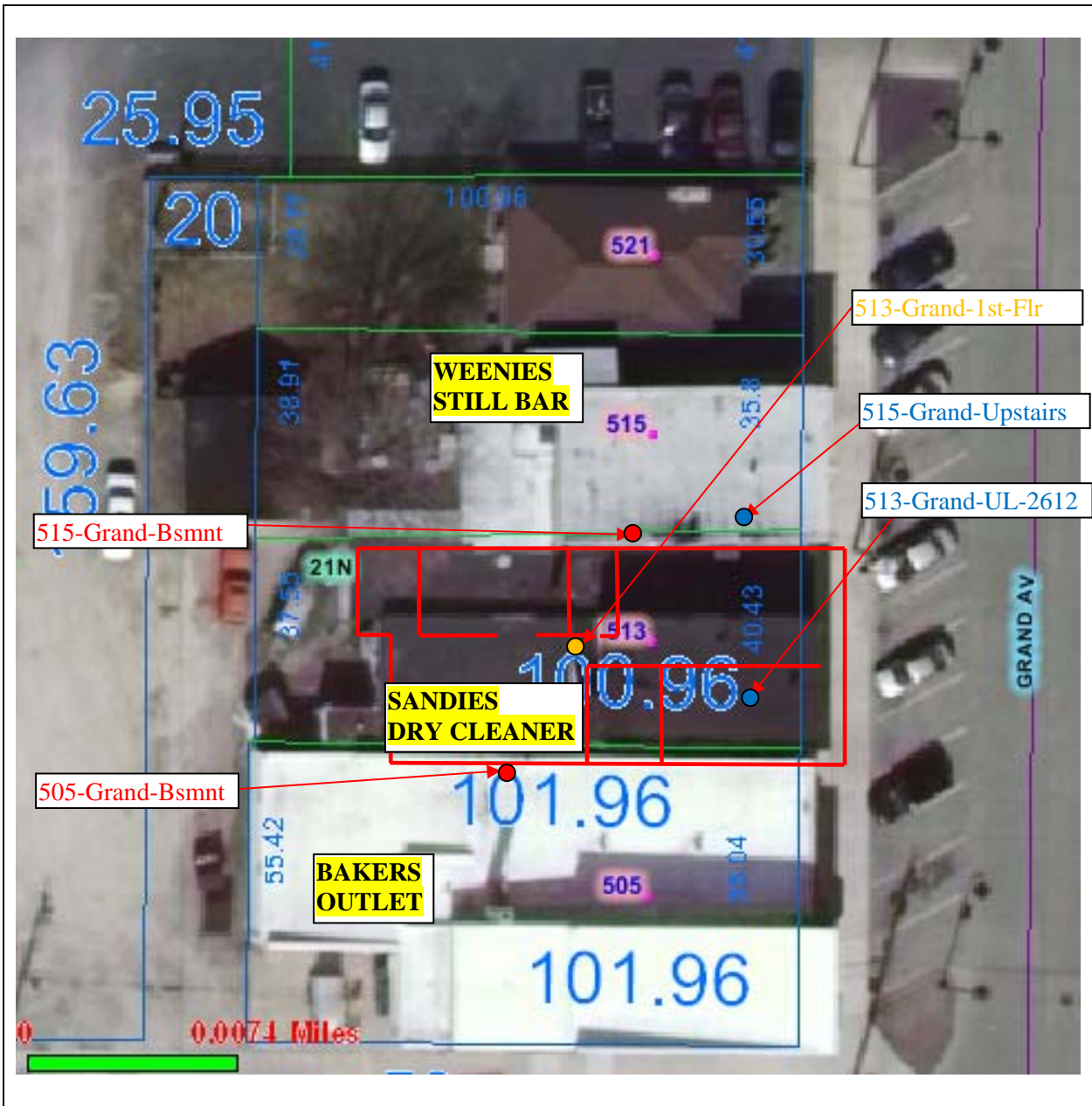
U.S. EPA Region 5, 2010. *Vapor Intrusion Guidebook A Tool for On-Scene Coordinators and Remedial Project Managers*. October, 2010.

U.S. EPA, 2011a. *Regional Screening Table- Indoor Air Vapor Action Levels for Various VOCs Quick Lookup Table*. June, 2011.

U.S. EPA, 2011b. *Request for Approval and Funding for a Time-Critical Removal Action at the Sandies Dry Cleaner and Laundry Site, Little Chute, Outagamie County, Wisconsin (Site ID#C515)*. August, 2011.



## **FIGURES**



- Basement Level Sample ID
- Ground Level Sample ID
- Upper Level Sample ID



**Sandies Dry Cleaner and Laundry  
Removal Action  
Little Chute, Outagamie County,  
Wisconsin  
TDD No. TO-01-11-08-0020**

**Figure 1  
Second Round Periodic SUMMA Sample  
Location Map**



# **ANALYTICAL DATA VALIDATION**

## MEMORANDUM

**Date:** February 17, 2012

**To:** Raghu Nagam, Project Manager, OTIE  
Superfund Technical Assessment and Response Team (START) for Region 5

**Prepared by:** Keely Meadows, START chemist for Region 5

**QA/QC** Russell Henderson

**Concurrence by:**

**Subject:** Data Validation for  
Sandies Dry Cleaners RV  
Little Chute, WI  
Project TDD No. TNA-01-11-08-0020

Laboratory: STAT Analysis Corporation in Chicago, Illinois.  
Sample Delivery Group (SDG): 12020038

### 1.0 INTRODUCTION

The START chemist for Region 5 validated analytical data for 4 air samples for volatile organic compounds (VOCs). Samples were collected at the Sandies Dry Cleaners RV Site on February 1, 2012. The samples were analyzed under SDG 12020038 by STAT Analysis Corporation of Chicago, Illinois using U.S. Environmental Protection Agency (U.S. EPA) method TO-15.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

### 2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

## **2.1 AIR SAMPLES BY METHOD TO-15**

### ***2.1.1 SAMPLE HANDLING***

Chain of custody (COC) documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Air samples were collected on February 1, 2012 and were received intact by the laboratory. No discrepancies were noted.

### ***2.1.2 SAMPLE PRESERVATION AND HOLDING TIME***

VOC samples were analyzed within holding time criteria. No discrepancies were noted.

### ***2.1.3 BLANK RESULTS***

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (MB 020612-5) was run with this SDG.

Methylene chloride was detected in the method blank at 0.14 parts per billion by volume (ppbv). However, methylene chloride was not detected in any of the sample results. Therefore, no action was taken to qualify for this deficiency.

### ***2.1.4 MS/MSD RECOVERY RESULTS***

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this SDG.

### ***2.1.5 LCS/LCSD RECOVERY RESULTS***

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with the full list of VOCs and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R).

The LCS recovery for hexachlorobutadiene was slightly biased high at 134% (limits were 70-130% recovery). Since hexachlorobutadiene was not detected in any of the sample results, no action was taken to qualify for this deficiency.

## **3.0 OVERALL ASSESSMENT OF DATA**

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

**ATTACHMENT**  
**SUMMARY OF VALIDATED ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 513-Grand-1st-Flr

Lab Order: 12020038

Collection Date: 2/1/2012 8:06:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
1,1,1-Trichloroethane	ND	0.31		ppbv	1	2/6/2012
1,1,2,2-Tetrachloroethane	ND	0.31		ppbv	1	2/6/2012
1,1,2-Trichloroethane	ND	0.31		ppbv	1	2/6/2012
1,1-Dichloroethane	ND	0.31		ppbv	1	2/6/2012
1,1-Dichloroethene	ND	0.31		ppbv	1	2/6/2012
1,2,4-Trichlorobenzene	ND	0.31		ppbv	1	2/6/2012
1,2,4-Trimethylbenzene	1	0.31		ppbv	1	2/6/2012
1,2-Dibromoethane	ND	0.31		ppbv	1	2/6/2012
1,2-Dichlorobenzene	ND	0.31		ppbv	1	2/6/2012
1,2-Dichloroethane	ND	0.31		ppbv	1	2/6/2012
1,2-Dichloropropane	ND	0.31		ppbv	1	2/6/2012
1,3,5-Trimethylbenzene	0.4	0.31		ppbv	1	2/6/2012
1,3-Butadiene	ND	0.31		ppbv	1	2/6/2012
1,3-Dichlorobenzene	ND	0.31		ppbv	1	2/6/2012
1,4-Dichlorobenzene	ND	0.31		ppbv	1	2/6/2012
1,4-Dioxane	ND	0.77		ppbv	1	2/6/2012
2-Butanone	ND	0.77		ppbv	1	2/6/2012
2-Hexanone	ND	1.5		ppbv	1	2/6/2012
4-Ethyltoluene	0.37	0.31		ppbv	1	2/6/2012
4-Methyl-2-pentanone	ND	1.5		ppbv	1	2/6/2012
Acetone	6.5	3.1	*	ppbv	1	2/6/2012
Benzene	ND	0.31		ppbv	1	2/6/2012
Benzyl chloride	ND	0.77		ppbv	1	2/6/2012
Bromodichloromethane	ND	0.31		ppbv	1	2/6/2012
Bromoform	ND	0.77		ppbv	1	2/6/2012
Bromomethane	ND	0.77		ppbv	1	2/6/2012
Carbon disulfide	ND	0.31		ppbv	1	2/6/2012
Carbon tetrachloride	ND	0.31		ppbv	1	2/6/2012
Chlorobenzene	ND	0.31		ppbv	1	2/6/2012
Chloroethane	ND	0.31		ppbv	1	2/6/2012
Chloroform	ND	0.31		ppbv	1	2/6/2012
Chloromethane	ND	0.77		ppbv	1	2/6/2012
cis-1,2-Dichloroethene	ND	0.31		ppbv	1	2/6/2012
cis-1,3-Dichloropropene	ND	0.31		ppbv	1	2/6/2012
Cyclohexane	ND	0.31		ppbv	1	2/6/2012
Dibromochloromethane	ND	0.31		ppbv	1	2/6/2012
Dichlorodifluoromethane	0.57	0.31		ppbv	1	2/6/2012
Ethyl acetate	ND	0.31		ppbv	1	2/6/2012

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Lab Order: 12020038

Collection Date: 2/1/2012 8:06:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.31		ppbv	1	2/6/2012
Freon-113	ND	0.31		ppbv	1	2/6/2012
Freon-114	ND	1.5		ppbv	1	2/6/2012
Heptane	0.62	0.31		ppbv	1	2/6/2012
Hexachlorobutadiene	ND	0.31		ppbv	1	2/6/2012
Hexane	ND	0.77		ppbv	1	2/6/2012
Isopropyl Alcohol	ND	1.5		ppbv	1	2/6/2012
m,p-Xylene	ND	0.62		ppbv	1	2/6/2012
Methyl tert-butyl ether	ND	0.31		ppbv	1	2/6/2012
Methylene chloride	ND	3.1		ppbv	1	2/6/2012
o-Xylene	ND	0.31		ppbv	1	2/6/2012
Propene	ND	3.1		ppbv	1	2/6/2012
Styrene	ND	0.31		ppbv	1	2/6/2012
Tetrachloroethene	ND	0.31		ppbv	1	2/6/2012
Tetrahydrofuran	ND	0.77		ppbv	1	2/6/2012
Toluene	2.2	0.31		ppbv	1	2/6/2012
trans-1,2-Dichloroethene	ND	0.31		ppbv	1	2/6/2012
trans-1,3-Dichloropropene	ND	0.31		ppbv	1	2/6/2012
Trichloroethene	ND	0.31		ppbv	1	2/6/2012
Trichlorofluoromethane	ND	0.31		ppbv	1	2/6/2012
Vinyl acetate	ND	3.1		ppbv	1	2/6/2012
Vinyl chloride	ND	0.31		ppbv	1	2/6/2012
Xylenes, Total	ND	0.93		ppbv	1	2/6/2012

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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Date Reported: February 10, 2012

Date Printed: February 10, 2012

<b>Client:</b>	Environmental Restoration L.L.C.	<b>Client Sample ID:</b>	515-Grand-Bsmnt
<b>Lab Order:</b>	12020038	<b>Collection Date:</b>	2/1/2012 9:25:00 AM
<b>Project:</b>	Sandies Dry Cleaning & Laundry RV, 513 Grand A	<b>Matrix:</b>	Air
<b>Lab ID:</b>	12020038-002		

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
1,1,1-Trichloroethane	ND	0.35		ppbv	1	2/6/2012
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	2/6/2012
1,1,2-Trichloroethane	ND	0.35		ppbv	1	2/6/2012
1,1-Dichloroethane	ND	0.35		ppbv	1	2/6/2012
1,1-Dichloroethene	ND	0.35		ppbv	1	2/6/2012
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	2/6/2012
1,2,4-Trimethylbenzene	1.3	0.35		ppbv	1	2/6/2012
1,2-Dibromoethane	ND	0.35		ppbv	1	2/6/2012
1,2-Dichlorobenzene	ND	0.35		ppbv	1	2/6/2012
1,2-Dichloroethane	ND	0.35		ppbv	1	2/6/2012
1,2-Dichloropropane	ND	0.35		ppbv	1	2/6/2012
1,3,5-Trimethylbenzene	0.42	0.35		ppbv	1	2/6/2012
1,3-Butadiene	0.47	0.35		ppbv	1	2/6/2012
1,3-Dichlorobenzene	ND	0.35		ppbv	1	2/6/2012
1,4-Dichlorobenzene	2.9	0.35		ppbv	1	2/6/2012
1,4-Dioxane	ND	0.88		ppbv	1	2/6/2012
2-Butanone	ND	0.88		ppbv	1	2/6/2012
2-Hexanone	ND	1.8		ppbv	1	2/6/2012
4-Ethyltoluene	0.37	0.35		ppbv	1	2/6/2012
4-Methyl-2-pentanone	ND	1.8		ppbv	1	2/6/2012
Acetone	8.7	3.5	*	ppbv	1	2/6/2012
Benzene	0.47	0.35		ppbv	1	2/6/2012
Benzyl chloride	ND	0.88		ppbv	1	2/6/2012
Bromodichloromethane	ND	0.35		ppbv	1	2/6/2012
Bromoform	ND	0.88		ppbv	1	2/6/2012
Bromomethane	ND	0.88		ppbv	1	2/6/2012
Carbon disulfide	ND	0.35		ppbv	1	2/6/2012
Carbon tetrachloride	ND	0.35		ppbv	1	2/6/2012
Chlorobenzene	ND	0.35		ppbv	1	2/6/2012
Chloroethane	ND	0.35		ppbv	1	2/6/2012
Chloroform	ND	0.35		ppbv	1	2/6/2012
Chloromethane	0.89	0.88		ppbv	1	2/6/2012
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	2/6/2012
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	2/6/2012
Cyclohexane	ND	0.35		ppbv	1	2/6/2012
Dibromochloromethane	ND	0.35		ppbv	1	2/6/2012
Dichlorodifluoromethane	0.54	0.35		ppbv	1	2/6/2012
Ethyl acetate	1	0.35		ppbv	1	2/6/2012

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 515-Grand-Bsmnt

Lab Order: 12020038

Collection Date: 2/1/2012 9:25:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.35		ppbv	1	2/6/2012
Freon-113	ND	0.35		ppbv	1	2/6/2012
Freon-114	ND	1.8		ppbv	1	2/6/2012
Heptane	0.49	0.35		ppbv	1	2/6/2012
Hexachlorobutadiene	ND	0.35		ppbv	1	2/6/2012
Hexane	ND	0.88		ppbv	1	2/6/2012
Isopropyl Alcohol	2.4	1.8		ppbv	1	2/6/2012
m,p-Xylene	ND	0.7		ppbv	1	2/6/2012
Methyl tert-butyl ether	ND	0.35		ppbv	1	2/6/2012
Methylene chloride	ND	3.5		ppbv	1	2/6/2012
o-Xylene	ND	0.35		ppbv	1	2/6/2012
Propene	ND	3.5		ppbv	1	2/6/2012
Styrene	ND	0.35		ppbv	1	2/6/2012
Tetrachloroethene	ND	0.35		ppbv	1	2/6/2012
Tetrahydrofuran	ND	0.88		ppbv	1	2/6/2012
Toluene	2	0.35		ppbv	1	2/6/2012
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	2/6/2012
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	2/6/2012
Trichloroethene	ND	0.35		ppbv	1	2/6/2012
Trichlorofluoromethane	ND	0.35		ppbv	1	2/6/2012
Vinyl acetate	ND	3.5		ppbv	1	2/6/2012
Vinyl chloride	ND	0.35		ppbv	1	2/6/2012
Xylenes, Total	ND	1.1		ppbv	1	2/6/2012

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 515-Grand-Upstairs

Lab Order: 12020038

Collection Date: 2/1/2012 10:10:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
1,1,1-Trichloroethane	ND	0.38		ppbv	1	2/6/2012
1,1,2,2-Tetrachloroethane	ND	0.38		ppbv	1	2/6/2012
1,1,2-Trichloroethane	ND	0.38		ppbv	1	2/6/2012
1,1-Dichloroethane	ND	0.38		ppbv	1	2/6/2012
1,1-Dichloroethene	ND	0.38		ppbv	1	2/6/2012
1,2,4-Trichlorobenzene	ND	0.38		ppbv	1	2/6/2012
1,2,4-Trimethylbenzene	1.2	0.38		ppbv	1	2/6/2012
1,2-Dibromoethane	ND	0.38		ppbv	1	2/6/2012
1,2-Dichlorobenzene	ND	0.38		ppbv	1	2/6/2012
1,2-Dichloroethane	ND	0.38		ppbv	1	2/6/2012
1,2-Dichloropropane	ND	0.38		ppbv	1	2/6/2012
1,3,5-Trimethylbenzene	ND	0.38		ppbv	1	2/6/2012
1,3-Butadiene	2.6	0.38		ppbv	1	2/6/2012
1,3-Dichlorobenzene	ND	0.38		ppbv	1	2/6/2012
1,4-Dichlorobenzene	23	0.38		ppbv	1	2/6/2012
1,4-Dioxane	ND	0.96		ppbv	1	2/6/2012
2-Butanone	3.2	0.96		ppbv	1	2/6/2012
2-Hexanone	ND	1.9		ppbv	1	2/6/2012
4-Ethyltoluene	0.4	0.38		ppbv	1	2/6/2012
4-Methyl-2-pentanone	ND	1.9		ppbv	1	2/6/2012
Acetone	44	3.8	*	ppbv	1	2/6/2012
Benzene	2.1	0.38		ppbv	1	2/6/2012
Benzyl chloride	ND	0.96		ppbv	1	2/6/2012
Bromodichloromethane	ND	0.38		ppbv	1	2/6/2012
Bromoform	ND	0.96		ppbv	1	2/6/2012
Bromomethane	ND	0.96		ppbv	1	2/6/2012
Carbon disulfide	ND	0.38		ppbv	1	2/6/2012
Carbon tetrachloride	ND	0.38		ppbv	1	2/6/2012
Chlorobenzene	ND	0.38		ppbv	1	2/6/2012
Chloroethane	0.5	0.38		ppbv	1	2/6/2012
Chloroform	ND	0.38		ppbv	1	2/6/2012
Chloromethane	3.9	0.96		ppbv	1	2/6/2012
cis-1,2-Dichloroethene	ND	0.38		ppbv	1	2/6/2012
cis-1,3-Dichloropropene	ND	0.38		ppbv	1	2/6/2012
Cyclohexane	ND	0.38		ppbv	1	2/6/2012
Dibromochloromethane	ND	0.38		ppbv	1	2/6/2012
Dichlorodifluoromethane	0.52	0.38		ppbv	1	2/6/2012
Ethyl acetate	7.3	0.38		ppbv	1	2/6/2012

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 515-Grand-Upstairs

Lab Order: 12020038

Collection Date: 2/1/2012 10:10:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
Ethylbenzene	0.73	0.38		ppbv	1	2/6/2012
Freon-113	ND	0.38		ppbv	1	2/6/2012
Freon-114	ND	1.9		ppbv	1	2/6/2012
Heptane	1.4	0.38		ppbv	1	2/6/2012
Hexachlorobutadiene	ND	0.38		ppbv	1	2/6/2012
Hexane	ND	0.96		ppbv	1	2/6/2012
Isopropyl Alcohol	24	1.9		ppbv	1	2/6/2012
m,p-Xylene	2.4	0.77		ppbv	1	2/6/2012
Methyl tert-butyl ether	ND	0.38		ppbv	1	2/6/2012
Methylene chloride	ND	3.8		ppbv	1	2/6/2012
o-Xylene	0.58	0.38		ppbv	1	2/6/2012
Propene	14	3.8		ppbv	1	2/6/2012
Styrene	0.73	0.38		ppbv	1	2/6/2012
Tetrachloroethene	ND	0.38		ppbv	1	2/6/2012
Tetrahydrofuran	ND	0.96		ppbv	1	2/6/2012
Toluene	4.9	0.38		ppbv	1	2/6/2012
trans-1,2-Dichloroethene	ND	0.38		ppbv	1	2/6/2012
trans-1,3-Dichloropropene	ND	0.38		ppbv	1	2/6/2012
Trichloroethene	ND	0.38		ppbv	1	2/6/2012
Trichlorofluoromethane	ND	0.38		ppbv	1	2/6/2012
Vinyl acetate	ND	3.8		ppbv	1	2/6/2012
Vinyl chloride	ND	0.38		ppbv	1	2/6/2012
Xylenes, Total	3	1.2		ppbv	1	2/6/2012

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 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 505-Grand-Bsmnt

Lab Order: 12020038

Collection Date: 2/1/2012 10:45:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
1,1,1-Trichloroethane	ND	0.33		ppbv	1	2/6/2012
1,1,2,2-Tetrachloroethane	ND	0.33		ppbv	1	2/6/2012
1,1,2-Trichloroethane	ND	0.33		ppbv	1	2/6/2012
1,1-Dichloroethane	ND	0.33		ppbv	1	2/6/2012
1,1-Dichloroethene	ND	0.33		ppbv	1	2/6/2012
1,2,4-Trichlorobenzene	ND	0.33		ppbv	1	2/6/2012
1,2,4-Trimethylbenzene	ND	0.33		ppbv	1	2/6/2012
1,2-Dibromoethane	ND	0.33		ppbv	1	2/6/2012
1,2-Dichlorobenzene	ND	0.33		ppbv	1	2/6/2012
1,2-Dichloroethane	ND	0.33		ppbv	1	2/6/2012
1,2-Dichloropropane	ND	0.33		ppbv	1	2/6/2012
1,3,5-Trimethylbenzene	ND	0.33		ppbv	1	2/6/2012
1,3-Butadiene	ND	0.33		ppbv	1	2/6/2012
1,3-Dichlorobenzene	ND	0.33		ppbv	1	2/6/2012
1,4-Dichlorobenzene	ND	0.33		ppbv	1	2/6/2012
1,4-Dioxane	ND	0.82		ppbv	1	2/6/2012
2-Butanone	1	0.82		ppbv	1	2/6/2012
2-Hexanone	ND	1.6		ppbv	1	2/6/2012
4-Ethyltoluene	ND	0.33		ppbv	1	2/6/2012
4-Methyl-2-pentanone	ND	1.6		ppbv	1	2/6/2012
Acetone	5.3	3.3	*	ppbv	1	2/6/2012
Benzene	ND	0.33		ppbv	1	2/6/2012
Benzyl chloride	ND	0.82		ppbv	1	2/6/2012
Bromodichloromethane	ND	0.33		ppbv	1	2/6/2012
Bromoform	ND	0.82		ppbv	1	2/6/2012
Bromomethane	ND	0.82		ppbv	1	2/6/2012
Carbon disulfide	ND	0.33		ppbv	1	2/6/2012
Carbon tetrachloride	ND	0.33		ppbv	1	2/6/2012
Chlorobenzene	ND	0.33		ppbv	1	2/6/2012
Chloroethane	ND	0.33		ppbv	1	2/6/2012
Chloroform	ND	0.33		ppbv	1	2/6/2012
Chloromethane	ND	0.82		ppbv	1	2/6/2012
cis-1,2-Dichloroethene	ND	0.33		ppbv	1	2/6/2012
cis-1,3-Dichloropropene	ND	0.33		ppbv	1	2/6/2012
Cyclohexane	ND	0.33		ppbv	1	2/6/2012
Dibromochloromethane	ND	0.33		ppbv	1	2/6/2012
Dichlorodifluoromethane	0.82	0.33		ppbv	1	2/6/2012
Ethyl acetate	ND	0.33		ppbv	1	2/6/2012

**Qualifiers:**  
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 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
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 E - Value above quantitation range  
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Date Reported: February 10, 2012

Date Printed: February 10, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 505-Grand-Bsmnt

Lab Order: 12020038

Collection Date: 2/1/2012 10:45:00 AM

Project: Sandies Dry Cleaning &amp; Laundry RV, 513 Grand A

Matrix: Air

Lab ID: 12020038-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/2/2012</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.33		ppbv	1	2/6/2012
Freon-113	ND	0.33		ppbv	1	2/6/2012
Freon-114	ND	1.6		ppbv	1	2/6/2012
Heptane	ND	0.33		ppbv	1	2/6/2012
Hexachlorobutadiene	ND	0.33		ppbv	1	2/6/2012
Hexane	ND	0.82		ppbv	1	2/6/2012
Isopropyl Alcohol	ND	1.6		ppbv	1	2/6/2012
m,p-Xylene	ND	0.66		ppbv	1	2/6/2012
Methyl tert-butyl ether	ND	0.33		ppbv	1	2/6/2012
Methylene chloride	ND	3.3		ppbv	1	2/6/2012
o-Xylene	ND	0.33		ppbv	1	2/6/2012
Propene	ND	3.3		ppbv	1	2/6/2012
Styrene	ND	0.33		ppbv	1	2/6/2012
Tetrachloroethene	1.1	0.33		ppbv	1	2/6/2012
Tetrahydrofuran	ND	0.82		ppbv	1	2/6/2012
Toluene	0.66	0.33		ppbv	1	2/6/2012
trans-1,2-Dichloroethene	ND	0.33		ppbv	1	2/6/2012
trans-1,3-Dichloropropene	ND	0.33		ppbv	1	2/6/2012
Trichloroethene	ND	0.33		ppbv	1	2/6/2012
Trichlorofluoromethane	0.95	0.33		ppbv	1	2/6/2012
Vinyl acetate	ND	3.3		ppbv	1	2/6/2012
Vinyl chloride	ND	0.33		ppbv	1	2/6/2012
Xylenes, Total	ND	0.98		ppbv	1	2/6/2012

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Company: ENVIRONMENTAL RESTORATION  
 Project Number: Client Tracking No.:  
 Project Name: SANDIES DECLEANING & LAUNDRY RN  
 Project Location: 513 GRANDAVE, LITTLE ROCK, AR  
 Sampler(s): R. NAGAM & C. SCHWIZ  
 Report To: RAGHU NAGAM Phone: (312) 217-7003  
 (EE) JOHN BEHRENS \* Fax: (312) 220-7004  
 QC Level: 1 2 X 3 4 e-mail: RNAGAM@OTIE.COM

P.O. No.: RFG 5-075-1  
 Quote No.: RFG 5-075-1

Turn Around: STANDARD  
 Results Needed:

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
513-GRAND - FST - FLR	2/1/2012	0800	AIR	X		A	1
515-GRAND - BS-MNT	2/1/2012	0905	AIR	X		A	1
515-GRAND - UP ST RS	2/1/2012	1010	AIR	X		A	1
505-GRAND - BS-MNT	2/2/2012	1045	AIR	X		A	1

Remarks	Lab. No.:
P <sub>1</sub> = 25.5" Hg	001
P <sub>2</sub> = 30.0" Hg	002
P <sub>3</sub> = 25.5" Hg	003
P <sub>4</sub> = 32.0" Hg	004

Relinquished by: (Signature) *John Behrens* Date/Time: 2/1/2012  
 Received by: (Signature) *R. Nagam* Date/Time: 2/1/2012  
 Relinquished by: (Signature) *R. Nagam* Date/Time: 2/2/12  
 Received by: (Signature) *R. Nagam* Date/Time: 2/2/12  
 Relinquished by: (Signature) *R. Nagam* Date/Time: 2/2/12  
 Received by: (Signature) *R. Nagam* Date/Time: 2/2/12

Comments: P<sub>1</sub> = 3" Hg AT = 1350 MIN  
 P<sub>2</sub> = 4" Hg AT = 1410 MIN  
 P<sub>3</sub> = 7" Hg AT = 1410 MIN  
 P<sub>4</sub> = 4" Hg AT = 1430 MIN  
 Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 2020038  
 Received on Ice: Yes  No   
 Temperature: 41.1 °C

\* SEE JOHN BEHRENS FOR DETAILS ON BEARING & MONITORING INFORMATION (SEE ATTACHED) 472-717 U X

## MEMORANDUM

**Date:** February 17, 2012

**To:** Raghu Nagam, Project Manager, OTIE  
Superfund Technical Assessment and Response Team (START) for Region 5

**Prepared by:** Keely Meadows, START chemist for Region 5

**QA/QC** Russell Henderson

**Concurrence by:**

**Subject:** Data Validation for  
Sandies Dry Cleaners RV  
Little Chute, WI  
Project TDD No. TNA-01-11-08-0020

Laboratory: STAT Analysis Corporation in Chicago, Illinois.  
Sample Delivery Group (SDG): 12020142

### 1.0 INTRODUCTION

The START chemist for Region 5 validated analytical data for one air sample for volatile organic compounds (VOCs). The sample was collected at the Sandies Dry Cleaners RV Site on February 7, 2012. The sample was analyzed under SDG 12020142 by STAT Analysis Corporation of Chicago, Illinois using U.S. Environmental Protection Agency (U.S. EPA) method TO-15.

Laboratory data was validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

### 2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.



After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

## **2.1 AIR SAMPLES BY METHOD TO-15**

### ***2.1.1 SAMPLE HANDLING***

Chain of custody (COC) documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. The air sample was collected on February 7, 2012 and was received intact by the laboratory. No discrepancies were noted.

### ***2.1.2 SAMPLE PRESERVATION AND HOLDING TIME***

The VOC sample was analyzed within holding time criteria. No discrepancies were noted.

### ***2.1.3 BLANK RESULTS***

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (MB 020912-5) was run with this SDG.

Methylene chloride was detected in the method blank at 0.11 parts per billion by volume (ppbv). However, methylene chloride was not detected in the sample results. Therefore, no action was taken to qualify for this deficiency.

### ***2.1.4 MS/MSD RECOVERY RESULTS***

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this SDG.

### ***2.1.5 LCS/LCSD RECOVERY RESULTS***

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with the full list of VOCs and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R).

The LCS recovery for hexachlorobutadiene was slightly biased high at 137% (limits were 70-130%R). The LCSD recovery for hexachlorobutadiene was also slightly biased high at 133%R. Since hexachlorobutadiene was not detected in the sample results, no action was taken to qualify for this deficiency.

The LCS recovery for bromoform was also slightly biased high at 131% (limits were 70-130%R). Bromoform was not detected in the sample results, so no action was taken to qualify for this deficiency.

## **3.0 OVERALL ASSESSMENT OF DATA**

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

**ATTACHMENT**  
**SUMMARY OF VALIDATED ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: February 16, 2012

Date Printed: February 16, 2012

Client: Environmental Restoration L.L.C.

Client Sample ID: 513-Grand-UL-2612

Lab Order: 12020142

Collection Date: 2/7/2012 8:45:00 AM

Project: Sandies Dry Cleaning &amp; Laundry, RV, 513 Grand

Matrix: Air

Lab ID: 12020142-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/9/2012</b>	Analyst: <b>VP</b>
1,1,1-Trichloroethane	ND	0.37		ppbv	1	2/10/2012
1,1,2,2-Tetrachloroethane	ND	0.37		ppbv	1	2/10/2012
1,1,2-Trichloroethane	ND	0.37		ppbv	1	2/10/2012
1,1-Dichloroethane	ND	0.37		ppbv	1	2/10/2012
1,1-Dichloroethene	ND	0.37		ppbv	1	2/10/2012
1,2,4-Trichlorobenzene	ND	0.37		ppbv	1	2/10/2012
1,2,4-Trimethylbenzene	1.7	0.37		ppbv	1	2/10/2012
1,2-Dibromoethane	ND	0.37		ppbv	1	2/10/2012
1,2-Dichlorobenzene	ND	0.37		ppbv	1	2/10/2012
1,2-Dichloroethane	ND	0.37		ppbv	1	2/10/2012
1,2-Dichloropropane	ND	0.37		ppbv	1	2/10/2012
1,3,5-Trimethylbenzene	0.67	0.37		ppbv	1	2/10/2012
1,3-Butadiene	ND	0.37		ppbv	1	2/10/2012
1,3-Dichlorobenzene	ND	0.37		ppbv	1	2/10/2012
1,4-Dichlorobenzene	ND	0.37		ppbv	1	2/10/2012
1,4-Dioxane	ND	0.92		ppbv	1	2/10/2012
2-Butanone	ND	0.92		ppbv	1	2/10/2012
2-Hexanone	ND	1.8		ppbv	1	2/10/2012
4-Ethyltoluene	0.59	0.37		ppbv	1	2/10/2012
4-Methyl-2-pentanone	ND	1.8		ppbv	1	2/10/2012
Acetone	9.4	3.7	*	ppbv	1	2/10/2012
Benzene	ND	0.37		ppbv	1	2/10/2012
Benzyl chloride	ND	0.92		ppbv	1	2/10/2012
Bromodichloromethane	ND	0.37		ppbv	1	2/10/2012
Bromoform	ND	0.92		ppbv	1	2/10/2012
Bromomethane	ND	0.92		ppbv	1	2/10/2012
Carbon disulfide	ND	0.37		ppbv	1	2/10/2012
Carbon tetrachloride	ND	0.37		ppbv	1	2/10/2012
Chlorobenzene	ND	0.37		ppbv	1	2/10/2012
Chloroethane	ND	0.37		ppbv	1	2/10/2012
Chloroform	ND	0.37		ppbv	1	2/10/2012
Chloromethane	ND	0.92		ppbv	1	2/10/2012
cis-1,2-Dichloroethene	ND	0.37		ppbv	1	2/10/2012
cis-1,3-Dichloropropene	ND	0.37		ppbv	1	2/10/2012
Cyclohexane	ND	0.37		ppbv	1	2/10/2012
Dibromochloromethane	ND	0.37		ppbv	1	2/10/2012
Dichlorodifluoromethane	0.52	0.37		ppbv	1	2/10/2012
Ethyl acetate	ND	0.37		ppbv	1	2/10/2012

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: February 16, 2012

Date Printed: February 16, 2012

**Client:** Environmental Restoration L.L.C.  
**Lab Order:** 12020142  
**Project:** Sandies Dry Cleaning & Laundry, RV, 513 Grand  
**Lab ID:** 12020142-001

**Client Sample ID:** 513-Grand-UL-2612  
**Collection Date:** 2/7/2012 8:45:00 AM  
**Matrix:** Air


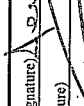
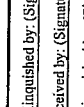
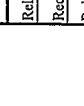


Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>2/9/2012</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.37		ppbv	1	2/10/2012
Freon-113	ND	0.37		ppbv	1	2/10/2012
Freon-114	ND	1.8		ppbv	1	2/10/2012
Heptane	1.5	0.37		ppbv	1	2/10/2012
Hexachlorobutadiene	ND	0.37		ppbv	1	2/10/2012
Hexane	ND	0.92		ppbv	1	2/10/2012
Isopropyl Alcohol	ND	1.8		ppbv	1	2/10/2012
m,p-Xylene	ND	0.74		ppbv	1	2/10/2012
Methyl tert-butyl ether	ND	0.37		ppbv	1	2/10/2012
Methylene chloride	ND	3.7		ppbv	1	2/10/2012
o-Xylene	ND	0.37		ppbv	1	2/10/2012
Propene	ND	3.7		ppbv	1	2/10/2012
Styrene	ND	0.37		ppbv	1	2/10/2012
Tetrachloroethene	ND	0.37		ppbv	1	2/10/2012
Tetrahydrofuran	ND	0.92		ppbv	1	2/10/2012
Toluene	3.3	0.37		ppbv	1	2/10/2012
trans-1,2-Dichloroethene	ND	0.37		ppbv	1	2/10/2012
trans-1,3-Dichloropropene	ND	0.37		ppbv	1	2/10/2012
Trichloroethene	ND	0.37		ppbv	1	2/10/2012
Trichlorofluoromethane	ND	0.37		ppbv	1	2/10/2012
Vinyl acetate	ND	3.7		ppbv	1	2/10/2012
Vinyl chloride	ND	0.37		ppbv	1	2/10/2012
Xylenes, Total	ND	1.1		ppbv	1	2/10/2012

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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 e-mail address: STATInfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD No: \_\_\_\_\_ Page: 1 of 1

Company: ENVIRONMENTAL RESTORATION		P.O. No.: KFC5-075-1								
Project Number: SANDIES DEY CLEANING & LAUNDRY BV		Quote No.: KFC5-075-1								
Project Location: 513 GRAND AVE, LITTLE ROCK, WI										
Sampler(s): I. J. BOESRA, MONIE										
Report To: RAGHU NAGAM Phone: (212) 217-7003										
*(E) JOHN BEHRENS * Fax: (312) 220-7004										
QC Level: 1 2 3 4 e-mail: RNFENAM@OTIE.COM										
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Presery.	No. of Containers	Remarks	Turn Around:	Results Needed:
513-GRAND-UL-1612	2/17/12	8:45	Air	X			1	PO: 9 Hg	STAND ARD	
Relinquished by: (Signature)  Date/Time: 2/17/12 Received by: (Signature)  Date/Time: 2/17/12 9:30 Relinquished by: (Signature)  Date/Time: Received by: (Signature)  Date/Time: Relinquished by: (Signature)  Date/Time: Received by: (Signature)  Date/Time:										

Comments: \* SEE JOHN BEHRENS  
 For BILLING & INVOICE IN PO.#  
 @ (703) 473-7124  
 P# = Hg AT = 2087 min  
 Preservation Code: A = None B = HNO, C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub>, E = HCl F = 503/EnCore G = Other

Laboratory Work Order No.  
 Receipt Location  
 Temperature

12020142

2/16/12 11:58 - 2/17/12 8:45  
 P# 9 Hg

## MEMORANDUM

**Date:** November 21, 2011

**To:** Naren Babu, Project Manager, OTIE  
Superfund Technical Assessment and Response Team (START) for Region 5

**Prepared by:** Keely Meadows, START chemist for Region 5

**QA/QC** Russell Henderson

**Concurrence by:**

**Subject:** Data Validation for  
Sandies Cleaners RV  
Little Chute, WI  
Project TDD No. TO--01-11-08-0020  
Laboratory: STAT Analysis Corporation in Chicago, Illinois.  
Sample Delivery Group (SDG): 11110238

### 1.0 INTRODUCTION

The START chemist for Region 5 validated analytical data for 7 air samples for volatile organic compounds (VOCs). Samples were collected at the Sandies Dry Cleaners Site on November 3, 2011. The samples were analyzed under SDG 11110238 by STAT Analysis Corporation of Chicago, Illinois using U.S. Environmental Protection Agency (U.S. EPA) method TO-15.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

### 2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

## **2.1 AIR SAMPLES BY METHOD TO-15**

### ***2.1.1 SAMPLE HANDLING***

Chain of custody (COC) documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Air samples were collected on November 3, 2011 and were received intact by the laboratory. However, one of the summa canister identifications did not match up to what was written on the COC. The field crew went back to the logbook and checked the identification and determined the number was incorrectly written on the COC for sample 108MAIN-R-01/can#078. The correct identification is 108MAIN-R-01/can#071. This discrepancy was noted on the COC.

### ***2.1.2 SAMPLE PRESERVATION AND HOLDING TIME***

VOC samples were analyzed within holding time criteria. No discrepancies were noted.

### ***2.1.3 BLANK RESULTS***

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (MB 110811-6) was run with this SDG.

No detects were noted.

### ***2.1.4 MS/MSD RECOVERY RESULTS***

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this SDG.

### ***2.1.5 LCS/LCSD RECOVERY RESULTS***

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with the full list of VOCs and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R).

The LCS/LCSD recoveries were within limits.

## **3.0 OVERALL ASSESSMENT OF DATA**

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

**ATTACHMENT**  
**SUMMARY OF VALIDATED ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY**



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-GL-01 / Can #050

Lab Order: 11110238

Collection Date: 11/3/2011 1:02:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.39		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.39		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.39		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.39		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.39		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.39		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	ND	0.39		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.39		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.39		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.39		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.39		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.39		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.39		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.39		ppbv	1	11/9/2011
1,4-Dichlorobenzene	ND	0.39		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.97		ppbv	1	11/9/2011
2-Butanone	ND	0.97		ppbv	1	11/9/2011
2-Hexanone	ND	1.9		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.39		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.9		ppbv	1	11/9/2011
Acetone	ND	3.9	*	ppbv	1	11/9/2011
Benzene	ND	0.39		ppbv	1	11/9/2011
Benzyl chloride	ND	0.97		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.39		ppbv	1	11/9/2011
Bromoform	ND	0.97		ppbv	1	11/9/2011
Bromomethane	ND	0.97		ppbv	1	11/9/2011
Carbon disulfide	ND	0.39		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.39		ppbv	1	11/9/2011
Chlorobenzene	ND	0.39		ppbv	1	11/9/2011
Chloroethane	ND	0.39		ppbv	1	11/9/2011
Chloroform	ND	0.39		ppbv	1	11/9/2011
Chloromethane	ND	0.97		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.39		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.39		ppbv	1	11/9/2011
Cyclohexane	ND	0.39		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.39		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.56	0.39		ppbv	1	11/9/2011
Ethyl acetate	0.93	0.39		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-GL-01 / Can #050

Lab Order: 11110238

Collection Date: 11/3/2011 1:02:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.39		ppbv	1	11/9/2011
Freon-113	ND	0.39		ppbv	1	11/9/2011
Freon-114	ND	1.9		ppbv	1	11/9/2011
Heptane	ND	0.39		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.39		ppbv	1	11/9/2011
Hexane	3.9	0.97		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.9		ppbv	1	11/9/2011
m,p-Xylene	ND	0.77		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.39		ppbv	1	11/9/2011
Methylene chloride	11	3.9		ppbv	1	11/9/2011
o-Xylene	ND	0.39		ppbv	1	11/9/2011
Propene	ND	3.9		ppbv	1	11/9/2011
Styrene	ND	0.39		ppbv	1	11/9/2011
Tetrachloroethene	150	3.9		ppbv	10	11/9/2011
Tetrahydrofuran	ND	0.97		ppbv	1	11/9/2011
Toluene	0.62	0.39		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.39		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.39		ppbv	1	11/9/2011
Trichloroethene	ND	0.39		ppbv	1	11/9/2011
Trichlorofluoromethane	ND	0.39		ppbv	1	11/9/2011
Vinyl acetate	ND	3.9		ppbv	1	11/9/2011
Vinyl chloride	ND	0.39		ppbv	1	11/9/2011
Xylenes, Total	ND	1.2		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-GL-02 / Can #076

Lab Order: 11110238

Collection Date: 11/3/2011 1:25:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	1.8	0.35		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.35		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	0.51	0.35		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.35		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,4-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.87		ppbv	1	11/9/2011
2-Butanone	ND	0.87		ppbv	1	11/9/2011
2-Hexanone	ND	1.7		ppbv	1	11/9/2011
4-Ethyltoluene	0.49	0.35		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.7		ppbv	1	11/9/2011
Acetone	5.3	3.5	*	ppbv	1	11/9/2011
Benzene	0.65	0.35		ppbv	1	11/9/2011
Benzyl chloride	ND	0.87		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.35		ppbv	1	11/9/2011
Bromoform	ND	0.87		ppbv	1	11/9/2011
Bromomethane	ND	0.87		ppbv	1	11/9/2011
Carbon disulfide	ND	0.35		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.35		ppbv	1	11/9/2011
Chlorobenzene	ND	0.35		ppbv	1	11/9/2011
Chloroethane	ND	0.35		ppbv	1	11/9/2011
Chloroform	ND	0.35		ppbv	1	11/9/2011
Chloromethane	ND	0.87		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Cyclohexane	ND	0.35		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.35		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.58	0.35		ppbv	1	11/9/2011
Ethyl acetate	ND	0.35		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-GL-02 / Can #076

Lab Order: 11110238

Collection Date: 11/3/2011 1:25:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.35		ppbv	1	11/9/2011
Freon-113	ND	0.35		ppbv	1	11/9/2011
Freon-114	ND	1.7		ppbv	1	11/9/2011
Heptane	1.3	0.35		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.35		ppbv	1	11/9/2011
Hexane	ND	0.87		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.7		ppbv	1	11/9/2011
m,p-Xylene	ND	0.7		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.35		ppbv	1	11/9/2011
Methylene chloride	4.8	3.5		ppbv	1	11/9/2011
o-Xylene	ND	0.35		ppbv	1	11/9/2011
Propene	ND	3.5		ppbv	1	11/9/2011
Styrene	ND	0.35		ppbv	1	11/9/2011
Tetrachloroethene	0.89	0.35		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.87		ppbv	1	11/9/2011
Toluene	2.6	0.35		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Trichloroethene	ND	0.35		ppbv	1	11/9/2011
Trichlorofluoromethane	ND	0.35		ppbv	1	11/9/2011
Vinyl acetate	ND	3.5		ppbv	1	11/9/2011
Vinyl chloride	ND	0.35		ppbv	1	11/9/2011
Xylenes, Total	ND	1		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 505 GND-BL-01 / Can #048

Lab Order: 11110238

Collection Date: 11/3/2011 1:37:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.33		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	ND	0.33		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.33		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.33		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.33		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.33		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.33		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,4-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.82		ppbv	1	11/9/2011
2-Butanone	0.92	0.82		ppbv	1	11/9/2011
2-Hexanone	ND	1.6		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.33		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.6		ppbv	1	11/9/2011
Acetone	4.7	3.3	*	ppbv	1	11/9/2011
Benzene	0.63	0.33		ppbv	1	11/9/2011
Benzyl chloride	ND	0.82		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.33		ppbv	1	11/9/2011
Bromoform	ND	0.82		ppbv	1	11/9/2011
Bromomethane	ND	0.82		ppbv	1	11/9/2011
Carbon disulfide	ND	0.33		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.33		ppbv	1	11/9/2011
Chlorobenzene	ND	0.33		ppbv	1	11/9/2011
Chloroethane	ND	0.33		ppbv	1	11/9/2011
Chloroform	ND	0.33		ppbv	1	11/9/2011
Chloromethane	ND	0.82		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.33		ppbv	1	11/9/2011
Cyclohexane	ND	0.33		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.33		ppbv	1	11/9/2011
Dichlorodifluoromethane	1	0.33		ppbv	1	11/9/2011
Ethyl acetate	ND	0.33		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 505 GND-BL-01 / Can #048

Lab Order: 11110238

Collection Date: 11/3/2011 1:37:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.33		ppbv	1	11/9/2011
Freon-113	ND	0.33		ppbv	1	11/9/2011
Freon-114	ND	1.6		ppbv	1	11/9/2011
Heptane	0.94	0.33		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.33		ppbv	1	11/9/2011
Hexane	ND	0.82		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.6		ppbv	1	11/9/2011
m,p-Xylene	ND	0.66		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.33		ppbv	1	11/9/2011
Methylene chloride	ND	3.3		ppbv	1	11/9/2011
o-Xylene	ND	0.33		ppbv	1	11/9/2011
Propene	ND	3.3		ppbv	1	11/9/2011
Styrene	ND	0.33		ppbv	1	11/9/2011
Tetrachloroethene	2.5	0.33		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.82		ppbv	1	11/9/2011
Toluene	1.5	0.33		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.33		ppbv	1	11/9/2011
Trichloroethene	ND	0.33		ppbv	1	11/9/2011
Trichlorofluoromethane	1.3	0.33		ppbv	1	11/9/2011
Vinyl acetate	ND	3.3		ppbv	1	11/9/2011
Vinyl chloride	ND	0.33		ppbv	1	11/9/2011
Xylenes, Total	ND	0.99		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 108 Main-R-01 / Can #071

Lab Order: 11110238

Collection Date: 11/3/2011 1:55:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.33		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.33		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	ND	0.33		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.33		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.33		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.33		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.33		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.33		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,4-Dichlorobenzene	ND	0.33		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.81		ppbv	1	11/9/2011
2-Butanone	ND	0.81		ppbv	1	11/9/2011
2-Hexanone	ND	1.6		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.33		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.6		ppbv	1	11/9/2011
Acetone	ND	3.3	*	ppbv	1	11/9/2011
Benzene	0.6	0.33		ppbv	1	11/9/2011
Benzyl chloride	ND	0.81		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.33		ppbv	1	11/9/2011
Bromoform	ND	0.81		ppbv	1	11/9/2011
Bromomethane	ND	0.81		ppbv	1	11/9/2011
Carbon disulfide	ND	0.33		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.33		ppbv	1	11/9/2011
Chlorobenzene	ND	0.33		ppbv	1	11/9/2011
Chloroethane	ND	0.33		ppbv	1	11/9/2011
Chloroform	ND	0.33		ppbv	1	11/9/2011
Chloromethane	ND	0.81		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.33		ppbv	1	11/9/2011
Cyclohexane	ND	0.33		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.33		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.57	0.33		ppbv	1	11/9/2011
Ethyl acetate	ND	0.33		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 108 Main-R-01 / Can #071

Lab Order: 11110238

Collection Date: 11/3/2011 1:55:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.33		ppbv	1	11/9/2011
Freon-113	ND	0.33		ppbv	1	11/9/2011
Freon-114	ND	1.6		ppbv	1	11/9/2011
Heptane	1.4	0.33		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.33		ppbv	1	11/9/2011
Hexane	ND	0.81		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.6		ppbv	1	11/9/2011
m,p-Xylene	ND	0.65		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.33		ppbv	1	11/9/2011
Methylene chloride	ND	3.3		ppbv	1	11/9/2011
o-Xylene	ND	0.33		ppbv	1	11/9/2011
Propene	ND	3.3		ppbv	1	11/9/2011
Styrene	ND	0.33		ppbv	1	11/9/2011
Tetrachloroethene	ND	0.33		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.81		ppbv	1	11/9/2011
Toluene	1.3	0.33		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.33		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.33		ppbv	1	11/9/2011
Trichloroethene	ND	0.33		ppbv	1	11/9/2011
Trichlorofluoromethane	ND	0.33		ppbv	1	11/9/2011
Vinyl acetate	ND	3.3		ppbv	1	11/9/2011
Vinyl chloride	ND	0.33		ppbv	1	11/9/2011
Xylenes, Total	ND	0.98		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 515 GND-BL-01 / Can #116

Lab Order: 11110238

Collection Date: 11/3/2011 2:10:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.36		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.36		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.36		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.36		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.36		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.36		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	ND	0.36		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.36		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.36		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.36		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.36		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.36		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.36		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.36		ppbv	1	11/9/2011
1,4-Dichlorobenzene	3.1	0.36		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.89		ppbv	1	11/9/2011
2-Butanone	ND	0.89		ppbv	1	11/9/2011
2-Hexanone	ND	1.8		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.36		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.8		ppbv	1	11/9/2011
Acetone	5.1	3.6	*	ppbv	1	11/9/2011
Benzene	0.73	0.36		ppbv	1	11/9/2011
Benzyl chloride	ND	0.89		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.36		ppbv	1	11/9/2011
Bromoform	ND	0.89		ppbv	1	11/9/2011
Bromomethane	ND	0.89		ppbv	1	11/9/2011
Carbon disulfide	ND	0.36		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.36		ppbv	1	11/9/2011
Chlorobenzene	ND	0.36		ppbv	1	11/9/2011
Chloroethane	ND	0.36		ppbv	1	11/9/2011
Chloroform	ND	0.36		ppbv	1	11/9/2011
Chloromethane	ND	0.89		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.36		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.36		ppbv	1	11/9/2011
Cyclohexane	ND	0.36		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.36		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.55	0.36		ppbv	1	11/9/2011
Ethyl acetate	0.98	0.36		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 515 GND-BL-01 / Can #116

Lab Order: 11110238

Collection Date: 11/3/2011 2:10:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.36		ppbv	1	11/9/2011
Freon-113	ND	0.36		ppbv	1	11/9/2011
Freon-114	ND	1.8		ppbv	1	11/9/2011
Heptane	0.85	0.36		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.36		ppbv	1	11/9/2011
Hexane	ND	0.89		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.8		ppbv	1	11/9/2011
m,p-Xylene	ND	0.71		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.36		ppbv	1	11/9/2011
Methylene chloride	ND	3.6		ppbv	1	11/9/2011
o-Xylene	ND	0.36		ppbv	1	11/9/2011
Propene	ND	3.6		ppbv	1	11/9/2011
Styrene	ND	0.36		ppbv	1	11/9/2011
Tetrachloroethene	ND	0.36		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.89		ppbv	1	11/9/2011
Toluene	1.8	0.36		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.36		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.36		ppbv	1	11/9/2011
Trichloroethene	ND	0.36		ppbv	1	11/9/2011
Trichlorofluoromethane	ND	0.36		ppbv	1	11/9/2011
Vinyl acetate	ND	3.6		ppbv	1	11/9/2011
Vinyl chloride	ND	0.36		ppbv	1	11/9/2011
Xylenes, Total	ND	1.1		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 515 GND-UL-01 / Can #055

Lab Order: 11110238

Collection Date: 11/3/2011 2:29:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	ND	0.35		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.35		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.35		ppbv	1	11/9/2011
1,3-Butadiene	1.4	0.35		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,4-Dichlorobenzene	24	0.35		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.88		ppbv	1	11/9/2011
2-Butanone	1.2	0.88		ppbv	1	11/9/2011
2-Hexanone	ND	1.8		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.35		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.8		ppbv	1	11/9/2011
Acetone	22	3.5	*	ppbv	1	11/9/2011
Benzene	1.5	0.35		ppbv	1	11/9/2011
Benzyl chloride	ND	0.88		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.35		ppbv	1	11/9/2011
Bromoform	ND	0.88		ppbv	1	11/9/2011
Bromomethane	ND	0.88		ppbv	1	11/9/2011
Carbon disulfide	ND	0.35		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.35		ppbv	1	11/9/2011
Chlorobenzene	ND	0.35		ppbv	1	11/9/2011
Chloroethane	ND	0.35		ppbv	1	11/9/2011
Chloroform	ND	0.35		ppbv	1	11/9/2011
Chloromethane	2	0.88		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Cyclohexane	ND	0.35		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.35		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.53	0.35		ppbv	1	11/9/2011
Ethyl acetate	5	0.35		ppbv	1	11/9/2011

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 515 GND-UL-01 / Can #055

Lab Order: 11110238

Collection Date: 11/3/2011 2:29:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.35		ppbv	1	11/9/2011
Freon-113	ND	0.35		ppbv	1	11/9/2011
Freon-114	ND	1.8		ppbv	1	11/9/2011
Heptane	2	0.35		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.35		ppbv	1	11/9/2011
Hexane	ND	0.88		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.8		ppbv	1	11/9/2011
m,p-Xylene	0.9	0.71		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.35		ppbv	1	11/9/2011
Methylene chloride	ND	3.5		ppbv	1	11/9/2011
o-Xylene	ND	0.35		ppbv	1	11/9/2011
Propene	4.3	3.5		ppbv	1	11/9/2011
Styrene	0.41	0.35		ppbv	1	11/9/2011
Tetrachloroethene	ND	0.35		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.88		ppbv	1	11/9/2011
Toluene	3.1	0.35		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Trichloroethene	ND	0.35		ppbv	1	11/9/2011
Trichlorofluoromethane	0.72	0.35		ppbv	1	11/9/2011
Vinyl acetate	ND	3.5		ppbv	1	11/9/2011
Vinyl chloride	ND	0.35		ppbv	1	11/9/2011
Xylenes, Total	1.2	1.1		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-R-01 / Can #106

Lab Order: 11110238

Collection Date: 11/3/2011 2:39:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: 11/8/2011	Analyst: VP
1,1,1-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2,2-Tetrachloroethane	ND	0.35		ppbv	1	11/9/2011
1,1,2-Trichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,1-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2,4-Trimethylbenzene	0.37	0.35		ppbv	1	11/9/2011
1,2-Dibromoethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloroethane	ND	0.35		ppbv	1	11/9/2011
1,2-Dichloropropane	ND	0.35		ppbv	1	11/9/2011
1,3,5-Trimethylbenzene	ND	0.35		ppbv	1	11/9/2011
1,3-Butadiene	ND	0.35		ppbv	1	11/9/2011
1,3-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,4-Dichlorobenzene	ND	0.35		ppbv	1	11/9/2011
1,4-Dioxane	ND	0.88		ppbv	1	11/9/2011
2-Butanone	ND	0.88		ppbv	1	11/9/2011
2-Hexanone	ND	1.8		ppbv	1	11/9/2011
4-Ethyltoluene	ND	0.35		ppbv	1	11/9/2011
4-Methyl-2-pentanone	ND	1.8		ppbv	1	11/9/2011
Acetone	ND	3.5	*	ppbv	1	11/9/2011
Benzene	0.67	0.35		ppbv	1	11/9/2011
Benzyl chloride	ND	0.88		ppbv	1	11/9/2011
Bromodichloromethane	ND	0.35		ppbv	1	11/9/2011
Bromoform	ND	0.88		ppbv	1	11/9/2011
Bromomethane	ND	0.88		ppbv	1	11/9/2011
Carbon disulfide	ND	0.35		ppbv	1	11/9/2011
Carbon tetrachloride	ND	0.35		ppbv	1	11/9/2011
Chlorobenzene	ND	0.35		ppbv	1	11/9/2011
Chloroethane	ND	0.35		ppbv	1	11/9/2011
Chloroform	ND	0.35		ppbv	1	11/9/2011
Chloromethane	ND	0.88		ppbv	1	11/9/2011
cis-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
cis-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Cyclohexane	ND	0.35		ppbv	1	11/9/2011
Dibromochloromethane	ND	0.35		ppbv	1	11/9/2011
Dichlorodifluoromethane	0.54	0.35		ppbv	1	11/9/2011
Ethyl acetate	ND	0.35		ppbv	1	11/9/2011

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: November 18, 2011

Date Printed: November 18, 2011

Client: Oneida Total Integrated Enterprises

Client Sample ID: 513 GND-R-01 / Can #106

Lab Order: 11110238

Collection Date: 11/3/2011 2:39:00 PM

Project: 2010101-1504, Sandies Dry Cleaning RV, 315 Gra

Matrix: Air

Lab ID: 11110238-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>			Prep Date: <b>11/8/2011</b>	Analyst: <b>VP</b>
Ethylbenzene	ND	0.35		ppbv	1	11/9/2011
Freon-113	ND	0.35		ppbv	1	11/9/2011
Freon-114	ND	1.8		ppbv	1	11/9/2011
Heptane	1.3	0.35		ppbv	1	11/9/2011
Hexachlorobutadiene	ND	0.35		ppbv	1	11/9/2011
Hexane	ND	0.88		ppbv	1	11/9/2011
Isopropyl Alcohol	ND	1.8		ppbv	1	11/9/2011
m,p-Xylene	ND	0.7		ppbv	1	11/9/2011
Methyl tert-butyl ether	ND	0.35		ppbv	1	11/9/2011
Methylene chloride	ND	3.5		ppbv	1	11/9/2011
o-Xylene	ND	0.35		ppbv	1	11/9/2011
Propene	ND	3.5		ppbv	1	11/9/2011
Styrene	ND	0.35		ppbv	1	11/9/2011
Tetrachloroethene	0.49	0.35		ppbv	1	11/9/2011
Tetrahydrofuran	ND	0.88		ppbv	1	11/9/2011
Toluene	1.7	0.35		ppbv	1	11/9/2011
trans-1,2-Dichloroethene	ND	0.35		ppbv	1	11/9/2011
trans-1,3-Dichloropropene	ND	0.35		ppbv	1	11/9/2011
Trichloroethene	ND	0.35		ppbv	1	11/9/2011
Trichlorofluoromethane	ND	0.35		ppbv	1	11/9/2011
Vinyl acetate	ND	3.5		ppbv	1	11/9/2011
Vinyl chloride	ND	0.35		ppbv	1	11/9/2011
Xylenes, Total	ND	1.1		ppbv	1	11/9/2011

KSM

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

Company: OTIE  
 Project Number: 2010101-1504 Client Tracking No.:  
 Project Name: Sandies Dry Cleaner RY  
 Project Location: 315 Grand Ave, Little Chute, WI  
 Sampler(s): 2132 Walker, Andrew Pifer  
 Report To: Ragu Nagan Phone: 312.220.7000  
 Fax: 312.220.7004 e-mail: r.nagan@otie.com

P.O. No.:  
 Quote No.:  
 Turn Around: 5 bus. days  
 Results Needed: am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp	Glb	Preserv.	No. of Containers
513 GND-GL-01/can #050	11/3/11	1302	X	X			1
513 GND-GL-02/can #076	11/3/11	1325	X	X			1
505 GND-GL-01/can # 048	11/3/11	1337	X	X			1
108 MAIN-R-01/can # 078	11/3/11	1355	X	X			1
515 GND-GL-01/can # 116	11/3/11	1410	X	X			1
515 GND-UL-01/can # 055	11/3/11	1429	X	X			1
513 GND-R-01/can # 106	11/3/11	1439	X	X			1

Relinquished by: (Signature) el wad Date/Time: 11/4/11 1:00  
 Received by: (Signature) [Signature] Date/Time: 11/4/11 9:30  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: (can #) - on summa

Laboratory Work Order No.: 11110238  
 Received on ice: Yes  No   
 Temperature: Ambient °C

## MEMORANDUM

**Date:** December 2, 2011

**To:** Raghu Nagam, Project Manager, OTIE  
Superfund Technical Assessment and Response Team (START) for Region 5

**Prepared by:** Keely Meadows, START chemist for Region 5

**QA/QC** Russell Henderson

**Concurrence by:**

**Subject:** Data Validation for  
Sandies Cleaners RV  
Little Chute, WI  
Project TDD No. TO-01-11-08-0020

Laboratory: STAT Analysis Corporation in Chicago, Illinois.  
Sample Delivery Group (SDG): H1J250432

### 1.0 INTRODUCTION

The START chemist for Region 5 validated analytical data for one air sample for volatile organic compounds (VOCs). The sample was collected at the Sandies Dry Cleaners Site on October 20, 2011. The sample was analyzed under SDG H1J250432 by Test America, Inc. of Knoxville, Tennessee using U.S. Environmental Protection Agency (U.S. EPA) method TO-15.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results (if applicable)
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

### 2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.



After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

## **2.1 AIR SAMPLES BY METHOD TO-15**

### ***2.1.1 SAMPLE HANDLING***

Chain of custody (COC) documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. The air sample was collected on October 20, 2011 and was received intact by the laboratory. No discrepancies were noted on the COC.

### ***2.1.2 SAMPLE PRESERVATION AND HOLDING TIME***

The VOC sample was analyzed within holding time criteria. No discrepancies were noted.

### ***2.1.3 BLANK RESULTS***

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample was run with this SDG.

No detects were noted.

### ***2.1.4 MS/MSD RECOVERY RESULTS***

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this SDG.

### ***2.1.5 LCS/LCSD RECOVERY RESULTS***

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with the full list of VOCs and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R).

The LCS/LCSD recoveries were within limits.

## **3.0 OVERALL ASSESSMENT OF DATA**

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

**ATTACHMENT**  
**SUMMARY OF VALIDATED ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY**

## Oneida Total Integrated Enterprises LLC

Client Sample ID: 121 LINCOLN BASEMENT

## GC/MS Volatiles

Lot-Sample #....: H1J250432-001      Work Order #....: MNFFX1AA      Matrix.....: AIR  
 Date Sampled....: 10/20/11      Date Received...: 10/24/11  
 Prep Date.....: 10/26/11      Analysis Date...: 10/26/11  
 Prep Batch #....: 1299164  
 Dilution Factor: 1      Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
<b>Dichlorodifluoromethane</b>	<b>0.42</b>	<b>0.20</b>	<b>ppb (v/v)</b>
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	0.20	ppb (v/v)
<b>Chloromethane</b>	<b>0.52</b>	<b>0.50</b>	<b>ppb (v/v)</b>
Vinyl chloride	ND	0.20	ppb (v/v)
Bromomethane	ND	0.20	ppb (v/v)
Chloroethane	ND	0.20	ppb (v/v)
<b>Trichlorofluoromethane</b>	<b>0.38</b>	<b>0.20</b>	<b>ppb (v/v)</b>
1,1-Dichloroethene	ND	0.20	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	0.20	ppb (v/v)
Methylene chloride	ND	0.50	ppb (v/v)
1,1-Dichloroethane	ND	0.20	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.20	ppb (v/v)
Chloroform	ND	0.20	ppb (v/v)
1,1,1-Trichloroethane	ND	0.20	ppb (v/v)
Carbon tetrachloride	ND	0.20	ppb (v/v)
Benzene	ND	0.20	ppb (v/v)
1,2-Dichloroethane	ND	0.20	ppb (v/v)
Trichloroethene	ND	0.20	ppb (v/v)
1,2-Dichloropropane	ND	0.20	ppb (v/v)
cis-1,3-Dichloropropene	ND	0.20	ppb (v/v)
<b>Toluene</b>	<b>0.28</b>	<b>0.20</b>	<b>ppb (v/v)</b>
trans-1,3-Dichloropropene	ND	0.20	ppb (v/v)
1,1,2-Trichloroethane	ND	0.20	ppb (v/v)
Tetrachloroethene	ND	0.20	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb (v/v)
Chlorobenzene	ND	0.20	ppb (v/v)
Ethylbenzene	ND	0.20	ppb (v/v)
m-Xylene & p-Xylene	ND	0.20	ppb (v/v)
o-Xylene	ND	0.20	ppb (v/v)
Styrene	ND	0.20	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.20	ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.20	ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.20	ppb (v/v)
1,3-Dichlorobenzene	ND	0.20	ppb (v/v)
1,4-Dichlorobenzene	ND	0.20	ppb (v/v)
1,2-Dichlorobenzene	ND	0.20	ppb (v/v)
Benzyl chloride	ND	0.40	ppb (v/v)

(Continued on next page)

KSM

## Oneida Total Integrated Enterprises LLC

Client Sample ID: 121 LINCOLN BASEMENT

## GC/MS Volatiles

Lot-Sample #...: H1J250432-001 Work Order #...: MNFFX1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	1.0	ppb (v/v)
Hexachlorobutadiene	ND	1.0	ppb (v/v)
Naphthalene	ND	0.50	ppb (v/v)

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	101	(60 - 140)

KSM

TAL Knoxville  
 5815 Middlebrook Pike  
 Knoxville, TN 37921  
 phone 865-291-3000 fax 865-584-4315

# Canister Samples Chain of Custody Record

H13280432



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information			Project Manager: <u>Naren Babu</u>		Sampled By: <u>Kathy Halbur</u>		1 of 1 COCs																				
Company: <u>OTE</u>			Phone: <u>930-634-9072</u>																								
Address: <u>100 N MONROE ST #200</u>			Site Contact: <u></u>																								
City/State/Zip: <u>CHICAGO/IL</u>			TAL Contact: <u></u>																								
Phone: <u>312-656-7685</u>																											
FAX: <u>312-220-7004</u>																											
Project Name: <u>SANDIES DRY CLEANERS</u>			Analysis Turnaround Time: <u>Standard (Specify) <input checked="" type="checkbox"/></u>																								
Site/location: <u>513 Grand Ave. Little Italy, IL</u>			Rush (Specify) <u></u>																								
PO #: <u>0010101-1504-02</u>																											
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 26C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)								
<u>121 Lincoln - Basement</u>	<u>10/20/11</u>	<u>1:05</u>	<u>1:32</u>	<u>-30</u>	<u>-5</u>	<u>414</u>	<u>1287</u>	<input checked="" type="checkbox"/>																			
<p>Sampled by: <u>1 Box sealed Ambient Top with Custody Seal intact Sept-10/24/11</u></p> <p><u>1 Box FedEx # 8703 2805 1467</u></p> <p>Temperature (Fahrenheit)</p> <table border="1"> <tr> <td>Interior</td> <td></td> </tr> <tr> <td>Ambient</td> <td></td> </tr> </table> <p>Pressure (inches of Hg)</p> <table border="1"> <tr> <td>Interior</td> <td></td> </tr> <tr> <td>Ambient</td> <td><u>1 CAN / FLOW</u></td> </tr> </table>																				Interior		Ambient		Interior		Ambient	<u>1 CAN / FLOW</u>
Interior																											
Ambient																											
Interior																											
Ambient	<u>1 CAN / FLOW</u>																										
Special Instructions/QC Requirements & Comments:																											
Canisters Shipped by: <u>Kathy Halbur</u>			Date/Time: <u>10/21/11 1:13:00</u>			Canisters Received by: <u>[Signature]</u>			Date/Time: <u>10/24/11</u>			Received by: <u>[Signature]</u>			Received by: <u>[Signature]</u>			Date/Time: <u>10/24/11</u>			Received by: <u>[Signature]</u>						

**ATTACHMENT B**  
**SECOND ROUND GROUND WATER MONITORING UPDATE**



**SANDIES DRY CLEANERS AND LAUNDRY SITE RV  
SECOND-ROUND GROUNDWATER MONITORING**

**Project Information**

TDD No.: TO-01-11-08-0020	TDD Type: Removal Action	Analytical TDD No.: TO-01-11-08-0020
Site Name: Sandies Dry Cleaners and Laundry RV	City/County: Little Chute/ Outagamie	State: WI
OTIE Project Mgr.: Naren Babu	EPA Project Mgr.: Ramon Mendoza, On Scene Coordinator (OSC)	
Site Lead:	<input checked="" type="checkbox"/> US EPA	<input type="checkbox"/> State <input type="checkbox"/> PRP _____ <input type="checkbox"/> Other _____

**History**

**Site Description:**

The former Sandies Dry Cleaner facility (SDC), vacant since 2006, is located at 513 Grand Ave in Little Chute, WI, about 30 minutes south of Green Bay in Outagamie County. SDC is located among a mixture of residential and commercial properties. Past facility operations and practices led to soil contamination and groundwater contamination with dry cleaning related chemicals. Historical investigations conducted by the Wisconsin Department of Natural Resources (WDNR), Wisconsin Department of Health Services (WIDHS), and the United States Environmental Protection Agency (EPA) concluded that the site is contaminated with chemicals common to the dry cleaning process; perchloroethylene/trichloroethylene (PCE/TCE).

**Site Background:**

Dave Linskens, the potential responsible party (PRP) for SDC, hired Terracon Consultants Inc. to conduct a Phase II Investigation. A soil sample collected at one foot below the former dry cleaning machine indicated PCE concentration of 125 parts per million (ppm). A second soil sample collected from three feet below ground surface (bgs) in the alley behind SDC indicated a PCE concentration of 4.5 ppm.

In February, 2011, the WIDHS conducted indoor air sampling at the source site and adjacent interconnected buildings (shared brick walls). WIDHS documented the presence of PCE in the unoccupied apartment above the SDC facility and in all three levels of the adjacent property, known as Weenies Still (a tavern immediately north of SDC). PCE was above the residential (0.6 ppb by volume) and commercial (3.1 ppb by volume) indoor air standards. The PCE levels of the owner-occupied residence above Weenies Still measured ten times higher than the residential indoor air. PCE in indoor air samples collected from the Bakery Outlet (Immediately south of SDC) were above residential standards, but below commercial standards. The WDNR requested EPA assistance to conduct a Removal Assessment and Removal Action at SDC.

In March 2011, the Superfund Technical Assessment and Response Team (START), contractor to the EPA, conducted indoor air sampling by collecting 6 summa canister air samples from SDC and premises located to the north and south of SDC. A 24-hour summa canister air sample was collected from each location. One sample was collected from the unoccupied second floor apartment at Sandies Dry Cleaners (513 Grand Ave); one sample from the first floor of the adjacent Weenies Tavern, (515 Grand Ave); one sample from the occupied second floor apartment above Weenies

Tavern; one sample from the basement of Weenies Tavern near an adjoining wall to the dry cleaners; one sample from the basement of the adjacent Bakers Outlet, (505 Grand Ave); one sample from the occupied second floor apartment south of the Bakers Outlet, above American Family Insurance, (505 Grand Ave). Sample results indicated PCE contamination in all samples except from the apartment above American Family Insurance (505 Grand Ave). PCE results indicated 31ppbv in SDC, 3.6 – 5 ppbv in Weenies Tavern and 0.78 ppbv in the Bakers Outlet.

In April 2011, START collected subsurface soil samples through installation of borings at the site and in the parcel behind the site. Analytical results confirmed an on-site PCE source in the soil of the former dry cleaner machinery room.

In September, 2011, USEPA initiated a removal action. Removal action included excavating and backfilling identified hot spots within the target area. Additionally, subslab ventilation systems were installed in the dry cleaning room at SDC, in the basement of Weenies Tavern, and in the crawl space under SDC to exhaust additional soil gas. After the removal action was completed, the EPA's ERRS contractor installed 3 monitoring wells in the parcel of land behind the site (Figure 1). These wells were installed to evaluate the groundwater quality and monitor the contaminants on a quarterly or on an as needed basis. The ground water monitoring began in December, 2011 and may occur on a quarterly basis thereafter.

## **Sampling**

### **Summary:**

This SAP discusses sampling protocols and procedures and the sample results. This SAP also addresses follow-up sampling that would occur periodically based on these sample results. As part of the monitoring requirements, three on-site monitoring wells were sampled in December 2011. The sampling procedures discussed below were used during the December 2011 sampling and will be used for all subsequent sampling at this site. QA/QC samples include trip blank and duplicate samples and will be collected along with regular samples. Appendix A includes a site sample location map and pictures of the respective wells. Appendix B includes State of Wisconsin DNR forms 4400-89 and 4400-113A which detail the well construction.

### **Well Development:**

Prior to sampling, all wells were developed according to the WDNR Groundwater Monitoring Well Requirements (NR 141.21). This process included using a surge block and submersible pump to conduct, at minimum, thirty minutes of surging and purging each well. This was followed by continuously pumping until the wells produced sediment free water. OTIE developed the wells in early December 2011 and was able to obtain sediment free water from each well during this procedure. See Table 2 for a complete overview of the well development results.

### **Collection and Handling Procedures:**

Each round of monitoring well sampling will include the collection of:

1. Three groundwater samples from the permanent groundwater wells behind SDC
2. One duplicate sample.
3. One trip blank

All groundwater samples were collected in accordance with the EPA Low Flow (Minimal Drawdown) Ground-Water Sampling Procedures and section four of OTIE's SOP (OTIE008F). Prior to sampling, a Heron Dipper-T water level meter was used for checking groundwater depths. A peristaltic pump or



other such pumping equipment was used to purge each monitoring well. A Horiba U-52 or similar water quality meter was used to monitor the water quality parameters for stabilization prior to sample collection.

The following Guidelines/procedures dictate monitoring well sampling:

1. Prepare the sample site
2. Decontaminate all equipment prior to its use in accordance with OTIE's Decontamination Procedures (OTIE011A)
3. Record depth to the water surface and to the bottom of the well using a water level meter
4. Lower dedicated sampling tube to the middle of the screened interval of the well
5. Using a low flow pump, begin pumping water at a rate of 0.1-0.5 L/Min
6. Record water quality readings, at a minimum, once every well volume until the parameters stabilize for three consecutive readings. Stabilization parameters include;
  - a. pH: +/- 0.1 pH unit
  - b. Temperature: +/- 10%
  - c. Specific conductance: +/- 3%
  - d. ORP: +/- 10mV
  - e. DO: +/- 10%
  - f. Turbidity: Target of 10NTU's or less for metal samples and 50 NTU's or less for organic samples
7. Collect, containerize, preserve, and handle the sample in accordance with EPA guidelines and additional procedures suggested by the supplying laboratory for collecting and preserving samples
8. Collect a duplicate water sample from one of the monitoring wells and also prepare a trip blank. These samples will be handled and kept in the same environmental conditions as the other monitoring well samples.
9. Record all findings and take photo documentation of the site

On 12/13/2011 OTIE START conducted the initial groundwater sampling for three wells at the SDC site; SDC-MW-1, SDC-MW-2, and SDC-MW-3 (see appendix A). SDC-MW-1 is located approximately 15.5 feet south of SDC and 9.0 feet east of Weenies detached garage. SDC-MW-2 is located approximately 29.0 feet south of SDC and 30.0 feet east of Weenies detached garage. SDC-MW-3 is located approximately 8.30 feet south of the Bakery and 6.80 feet east of the southwest corner of the Bakery.

On 02/01/2012 OTIE START conducted the second round groundwater sampling for three wells at the SDC site; SDC-MW-1, SDC-MW-2, and SDC-MW-3 (see appendix A).

All samples were analyzed for VOC's. Sample bottle requirements, analytical methods, and preservatives are listed in Table 1. Sample results can be found in Table 3. The expected turn-around time for each sample was Standard Turnaround Time.

#### **Sample Analysis:**

Table 3 displays a summary of the December 2011 and February 2012 sample results. All samples, including one trip blank and one duplicate sample, were analyzed for VOCs. The bolded numbers in Table 3 indicate results above the reporting limit, hence, are considered accurate by the labs testing procedures. Numbers that are not above the reporting limit (not bolded) are considered estimates by the reporting laboratory. Numbers that are highlighted are considered above the state and/or federal

limits.

During the initial round of sampling, SDC-MW-1 had no detected contaminants. SDC-MW-2 had trace amounts of acetone, dichloroethene, and trichloroethene, but had tetrachloroethene slightly above the state and federal limits. SDC-MW-3 had trace amounts of dichloroethene, but had 62 times and almost 4 times above state and federal limits for tetrachloroethene and trichloroethene, respectively. SDC-MW-3 had a duplicate sample taken that confirmed similar results.

During the second round of sampling, SDC-MW-1 had no detected contaminants. SDC-MW-2 had trace amounts of acetone, dichloroethene, and trichloroethene, but had tetrachloroethene slightly above the state and federal limits. SDC-MW-3 had trace amounts of dichloroethene, but had 78 times and almost 4 times above state and federal limits for tetrachloroethene and trichloroethene, respectively. SDC-MW-3 had a duplicate sample taken that confirmed similar results.

Further quarterly sampling is recommended to monitor the target site for contaminant release.

**Table 1  
Sampling Requirements  
Sandies Dry Cleaners and Laundry Site RV**

Matrix <sup>1</sup>	Parameter/Method <sup>2</sup>	Volume and Container <sup>2</sup>	No. of Investigative Samples	No. of Quality Control (QC) Samples <sup>3</sup>						Total No. of Samples (Investigative + QC)	Total No. of sample containers
				MS	MSD	Field Duplicate or Split	Equipment Blank	Field Blank	Trip Blank		
Water	VOC's/ SW-846: 8015B, 8021B, 8260B	40 ml Vials/3	3			1			1	4	12

Notes:

- 1 Matrix includes water.
- 2 Refer to Table 2-2 of the START Region 5 QAPP for required sample volumes, containers, preservation techniques and holding times. VOC bottles are pre-preserved with HCL
- 3 Refer to the Field Quality Control Requirements of the START Region 5 QAPP.

**Table 2**  
**Well Development Results**  
**Sandies Dry Cleaner & Laundry-RV**  
**Little Chute, WI**

Well ID	Initial Measurements				Original Purge		
	Depth To Water Surface (ft)	Depth To Bottom of Well (ft)	Well Volume (gal)	Water To Be Purged (gal)	Purge Time (Mins)	Number of Cycles	Gallons Retrieved
SDC-MW-1	4.60	19.90	2.50	7.50	120	5	5
SDC-MW-2	5.32	19.75	2.35	7.05	120	5	6
SDC-MW-3	5.60	19.82	2.32	6.96	120	5	5

**Surge and Purge Cycle**

Well ID	First Purge					Second Purge					Third Purge					Total Gallons Retrieved
	Recharge Time (Min)	Purge Time (Mins)	Gallons Pumped	Water Clear (Y/N)	Well Dry (Y/N)	Recharge Time (Min)	Second Purge Time (Min)	Gallons Pumped	Water Clear (Y/N)	Well Dry (Y/N)	Recharge Time (Min)	Third Purge Time (Min)	Gallons Pumped	Water Clear (Y/N)	Well Dry (Y/N)	
SDC-MW-1	90	30	5	N	Y	60	10	4	N	Y	30	5	1	Y	Y	10
SDC-MW-2	75	45	8	Y	Y	20	5	2	Y	Y	N/A	N/A	N/A	N/A	N/A	10
SDC-MW-3	25	40	9	N	Y	20	2	1	Y	Y	N/A	N/A	N/A	N/A	N/A	10

**Note**

- Well ID Monitoring well identification number
- ft Feet
- Min Minutes
- gal Gallons
- N/A Not applicable

**Table 3**  
**Groundwater Monitoring Analytical Results**  
**Initial and Second Round Sampling**  
**Sandies Dry Cleaner & Laundry Site RV**  
**Little Chute, WI**

VOCs		cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Action Levels (µg/L)	EPA (Federal) MCL	70	5	5	2
	WDNR 809 (State) MCL	70	5	5	0.2
Initial Round Sampling December 2011 Results (µg/L)	SDC-MW-1	ND	ND	ND	ND*
	SCD-MW-2	3.7	<b>8</b>	1.4	ND*
	SDC-MW-3	4.6	<b>310</b>	<b>19</b>	ND*
Second Round Sampling February 2012 Results (µg/L)	SDC-MW-1	ND	ND	ND	ND
	SCD-MW-2	3.5	<b>5.6</b>	0.59 J	ND
	SDC-MW-3	9.5	<b>390 J</b>	<b>19</b>	ND

**Notes:**

VOCs Volatile organic compounds

µg/L - micrograms per liter

SDC-MW - Monitoring Well identification

ND Not Detected at or above the Reporting Limit

J Analyte detected and value is estimated

**8.0** - Bolded highlighted results indicate exceedances of federal and/or state maximum contaminant level (MCL) drinking water standards

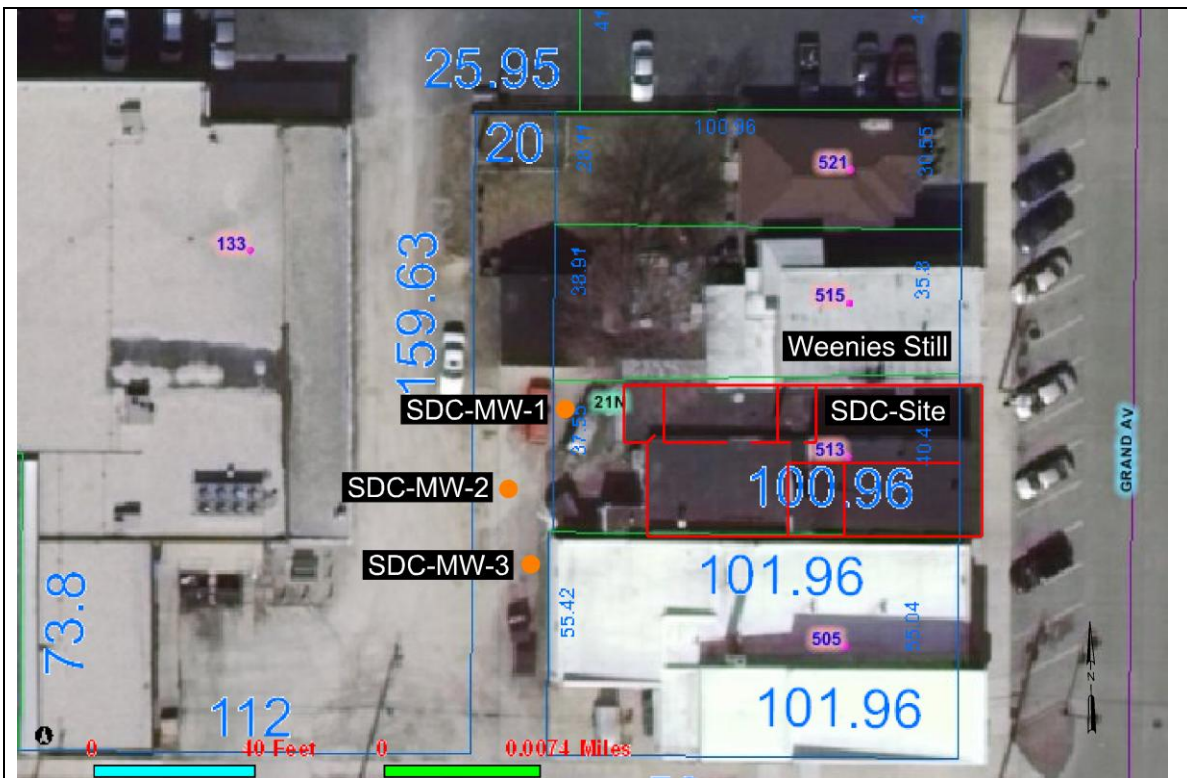
\* - Sample results had a detection limit above the WDNR 809 MCL


Samples were analyzed for all VOCs. Table 3 includes the sample results of only detected analytes

Initial round analyses were conducted by Mircobac Laboratories, Merrillville, Indiana under START TDD No: TO-01-11-08-0020 and contract EP-S5-10-10

Second round analyses were conducted by TestAmerica Laboratories, Watertown, Wisconsin under START TDD No: TO-01-11-08-0020 and contract EP-S5-10-10

**APPENDIX A**  
**Groundwater Well Location Map and Site Pictures**



<p><b>Legend</b></p>	<p><b>Figure 1</b> <b>Monitoring Well Location Map</b></p>
<ul style="list-style-type: none"> <li>● Approximate Groundwater Monitoring Well Locations</li> <li>□ Sandies Dry Cleaner Site (SDC Site)</li> </ul>	<p>Sandies Dry Cleaner Site RV Little Chute, Outagamie County, Wisconsin TDD No. TO-01-11-08-0020</p>
<p>Map Source: City of Little Chute, WI</p>	

**Sample Location Photos**

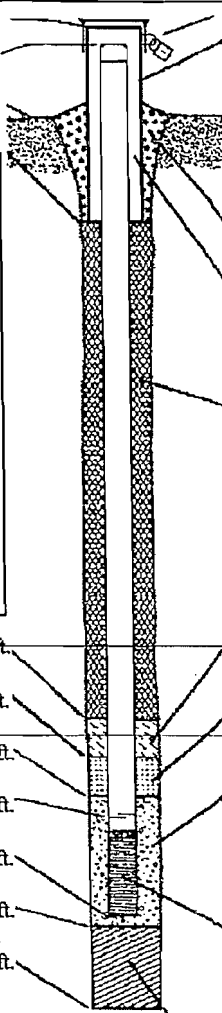




**APPENDIX B**  
**WDNR Monitoring Well Construction Forms**

Facility/Project Name: Sandies DCB L-141104 Local Grid Location of Well: \_\_\_\_\_ ft.  N. \_\_\_\_\_ ft.  E. \_\_\_\_\_ ft.  S. \_\_\_\_\_ ft.  W.  
Well Name: SDC-MW-1  
Facility License, Permit or Monitoring No.: \_\_\_\_\_ Local Grid Origin  (estimated: ) or Well Location   
Wis. Unique Well No.: VV350 DNR Well ID No.: \_\_\_\_\_  
Facility ID: \_\_\_\_\_ St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N \_\_\_\_\_  
Date Well Installed: 11/16/2011  
Type of Well: \_\_\_\_\_ Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 21, T. 21 N. R. 18E  E  W  
Well Installed By: Name (first, last) and Firm: Chad VanDe Yacht Ground Source  
Distance from Waste/Source \_\_\_\_\_ ft. Enf. Stds. Apply  Location of Well Relative to Waste/Source:  Upgradient  Sidegradient  Downgradient  Not Known Gov. Lot Number \_\_\_\_\_

A. Protective pipe, top elevation 732.0 ft. MSL  
B. Well casing, top elevation 731.5 ft. MSL  
C. Land surface elevation 732 ft. MSL  
D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
12. USCS classification of soil near screen:  
GP  GM  GC  GW  SW  SP   
SM  SC  ML  MH  CL  CH   
Bedrock   
13. Sieve analysis performed?  Yes  No  
14. Drilling method used: Rotary  50  
Hollow Stem Auger  41  
Other   
15. Drilling fluid used: Water  02 Air  01  
Drilling Mud  03 None  99  
16. Drilling additives used?  Yes  No  
Describe \_\_\_\_\_  
17. Source of water (attach analysis, if required): \_\_\_\_\_



1. Cap and lock?  Yes  No  
2. Protective cover pipe:  
a. Inside diameter: 8 in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel  04  
Other   
d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite  30  
Concrete  01  
Other   
4. Material between well casing and protective pipe: Bentonite  30  
Other   
5. Annular space seal: a. Granular/Chipped Bentonite  33  
b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35  
c. \_\_\_\_\_ Lbs/gal mud weight . . . . Bentonite slurry  31  
d. \_\_\_\_\_ % Bentonite . . . . . Bentonite-cement grout  50  
e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  01  
Tremie pumped  02  
Gravity  08  
6. Bentonite seal: a. Bentonite granules  33  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
c. \_\_\_\_\_ Other   
7. Fine sand material: Manufacturer, product name & mesh size  
a. 40/60 Badger  
b. Volume added 25 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name & mesh size  
a. 20/40 Badger  
b. Volume added 5 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40  23  
Flush threaded PVC schedule 80  24  
Other   
10. Screen material: PVC  
a. Screen type: Factory cut  11  
Continuous slot  01  
Other   
b. Manufacturer Johnson  
c. Slot size: 0.010 in.  
d. Slotted length: 1.5 ft.  
11. Backfill material (below filter pack): None  14  
Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: [Signature] Firm: OTIE - U.S. EPA Contractor

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  USEPA

Facility/Project Name <u>Sandies DC&amp;L-Little Crute</u>	County Name <u>Outagamie</u>	Well Name <u>SDC-MW-1</u>
Facility License, Permit or Monitoring Number	County Code	DNR Well ID Number
	Wis. Unique Well Number <u>VV350</u>	

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	41
surged with bailer and pumped	<input type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input checked="" type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other	<input type="checkbox"/>	

3. Time spent developing well 420 min.  
~~435~~

4. Depth of well (from top of well casing) 19.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 2.5 gal.

7. Volume of water removed from well 10.0 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added N/A

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.60</u> ft.	<u>0.00</u> ft.
Date	b. <u>12/05/2011</u> m m d d y y y y	<u>12/05/2011</u> m m d d y y y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>17:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Andrew</u>	Last Name: <u>Plier</u>
Firm:	<u>OTIE</u>	

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Dave Last Name: Linskens

Facility/Firm: \_\_\_\_\_

Street: 11687 Princeton Pl #5

City/State/Zip: Green Bay, WI 54302

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Andrew J Plier

Firm: OTIE - US EPA Contractor

NOTE: See instructions for more information including a list of county codes and well type codes.

Facility/Project Name: Sandies DCBL Little Chute Local Grid Location of Well: 533brant Ave  
 Facility License, Permit or Monitoring No.: 26 / EW Local Grid Origin (estimated: ) or Well Location   
 Lat. 44° 16' 753N Long. 88° 18' 969W or VK351 Wis. Unique Well No. SDC-MW-2 DNR Well ID No. ---  
 Facility ID: \_\_\_\_\_ St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N \_\_\_\_\_ Date Well Installed 11/16/2011  
 Type of Well: \_\_\_\_\_ Section Location of Waste/Source: NN 1/4 of SE 1/4 of Sec. 21, T. 21 N, R. 18 W Well Installed By: Name (first, last) and Firm Chat Van De Yacht Ground Source  
 Distance from Waste/Source \_\_\_\_\_ ft. Apply  Location of Well Relative to Waste/Source: u  Upgradient s  Sidegradient Gov. Lot Number \_\_\_\_\_  
 Source \_\_\_\_\_ ft. d  Downgradient n  Not Known

A. Protective pipe, top elevation 732.00 ft. MSL  Yes  No  
 B. Well casing, top elevation 731.5 ft. MSL  
 C. Land surface elevation 732 ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
 1. Cap and lock?  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 8 in.  
 b. Length: 1 ft.  
 c. Material: Steel  04 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: \_\_\_\_\_  
 3. Surface seal: Bentonite  30 Concrete  01 Other   
 4. Material between well casing and protective pipe: Bentonite  30 Other   
 5. Annular space seal: a. Granular/Chipped Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31  
 d. \_\_\_\_\_ % Bentonite ... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01 Tremie pumped  02 Gravity  08  
 6. Bentonite seal: a. Bentonite granules  33  
 b.  1/4 in  3/8 in  1/2 in Bentonite chips  32  
 c. \_\_\_\_\_ Other   
 7. Fine sand material: Manufacturer, product name & mesh size  
 a. 40/60 Badger  
 b. Volume added 25 ft<sup>3</sup>  
 8. Filter pack material: Manufacturer, product name & mesh size  
 a. 20/40 Badger  
 b. Volume added 5 ft<sup>3</sup>  
 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other   
 10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Johnson  
 c. Slot size: 0.010 in.  
 d. Slotted length: 1.5 ft.  
 11. Backfill material (below filter pack): None  14  
 Other

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock   
 13. Sieve analysis performed?  Yes  No  
 14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
 Other   
 15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99  
 16. Drilling additives used?  Yes  No  
 Describe: \_\_\_\_\_  
 17. Source of water (attach analysis, if required): \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or \_\_\_\_\_ ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 3 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.5 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 5 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 20 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 20.5 ft.  
 K. Borehole, bottom \_\_\_\_\_ ft. MSL or 20.5 ft.  
 L. Borehole, diameter 8 in.  
 M. O.D. well casing 2.37 in.  
 N. I.D. well casing 2.03 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: OTIE-U.S. EPA Contractor

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  USEPA

Facility/Project Name <u>Sandies DC&amp;L - Little Chute</u>	513 Grand Ave	County Name <u>Ostauagamié</u>	Well Name <u>SDC-MW-2</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number <u>VV351</u>	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

- surged with bailer and bailed  41
- surged with bailer and pumped  61
- surged with block and bailed  42
- surged with block and pumped  62
- surged with block, bailed and pumped  70
- compressed air  20
- bailed only  10
- pumped only  51
- pumped slowly  50
- Other

3. Time spent developing well 290 min.

4. Depth of well (from top of well casing) 19.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 2.4 gal.

7. Volume of water removed from well 10.0 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added N/A

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>5.32</u> ft.	<u>0.00</u> ft.
Date	b. <u>12/05/2011</u>	<u>12/05/2011</u>
Time	c. <u>11:15</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>04:05</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Andrew</u>	Last Name: <u>Plier</u>
Firm:	<u>OTIE</u>	

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Roy Last Name: Van Gheem

Facility/Firm: \_\_\_\_\_

Street: 108 West Main St.

City/State/Zip: Little Chute, WI  
54140

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Name: Andrew J Plier

Firm: OTIE - U.S. EPA Contractor

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  USEPA

Facility/Project Name: Sandies DCB L.L. Hg Cont Local Grid Location of Well: 513 Grand Well Name: SDC-MW-3  
 Facility License, Permit or Monitoring No.: LL Hg Cont Local Grid Origin: 44° 16' 749 N Long: 88° 18' 968 W Wis. Unique Well No.: VV352 DNR Well ID No.:           
 Facility ID:          St. Plane:          ft. N,          ft. E. S/C/N Date Well Installed: 11/16/2011  
 Type of Well: Well Code 26 / ew Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 21, T. 21 N, R. 18 E Well Installed By: Name (first, last) and Firm: Chad VanDeYacht Ground Source  
 Distance from Waste/Source:          ft. Enf. Stds. Apply  Location of Well Relative to Waste/Source: u  Upgradient s  Sidegradient d  Downgradient n  Not Known Gov. Lot Number:         

A. Protective pipe, top elevation 732.0 ft. MSL  
 B. Well casing, top elevation 731.5 ft. MSL  
 C. Land surface elevation 732 ft. MSL  
 D. Surface seal, bottom 1 ft. MSL or 1 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis performed?  Yes  No  
 14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99  
 16. Drilling additives used?  Yes  No  
 Describe           
 17. Source of water (attach analysis, if required):         

1. Cap and lock?  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 8 in.  
 b. Length: 1 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe:           
 3. Surface seal: Bentonite  30  
 Concrete  01  
 Other   
 4. Material between well casing and protective pipe: Bentonite  30  
 Other   
 5. Annular space seal: a. Granular/Chipped Bentonite  33  
 b.          Lbs/gal mud weight ... Bentonite-sand slurry  35  
 c.          Lbs/gal mud weight ... Bentonite slurry  31  
 d.          % Bentonite ... Bentonite-cement grout  50  
 e.          Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Tremie pumped  02  
 Gravity  08  
 6. Bentonite seal: a. Bentonite granules  33  
 b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
 c.          Other   
 7. Fine sand material: Manufacturer, product name & mesh size  
 a. 40/60 Badger  
 b. Volume added 25 ft<sup>3</sup>  
 8. Filter pack material: Manufacturer, product name & mesh size  
 a. 20/40 Badger  
 b. Volume added 5 ft<sup>3</sup>  
 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other   
 10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer Johnson  
 c. Slot size: 0.010 in.  
 d. Slotted length: 1.5 ft.  
 11. Backfill material (below filter pack): None  14  
 Other

E. Bentonite seal, top 1 ft. MSL or 1 ft.  
 F. Fine sand, top 3 ft. MSL or 3 ft.  
 G. Filter pack, top 3.5 ft. MSL or 3.5 ft.  
 H. Screen joint, top 5 ft. MSL or 5 ft.  
 I. Well bottom 20 ft. MSL or 20 ft.  
 J. Filter pack, bottom 20.5 ft. MSL or 20.5 ft.  
 K. Borehole, bottom 20.5 ft. MSL or 20.5 ft.  
 L. Borehole, diameter 8 in.  
 M. O.D. well casing 2.37 in.  
 N. I.D. well casing 2.03 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
 Signature: [Signature] Firm: OTIE - USEPA CONTRACTOR

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  USEPA

Facility/Project Name <u>Sandies DC&amp;L - 513 Grand Ave Little Chute</u>	County Name <u>Outagamie</u>	Well Name <u>SDC - MW-3</u>
Facility License, Permit or Monitoring Number	County Code <u>---</u>	Wis. Unique Well Number <u>VY352</u>
		DNR Well ID Number <u>---</u>

1. Can this well be purged dry?  Yes  No
2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other
3. Time spent developing well 2.10 min.
4. Depth of well (from top of well casing) 19.8 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing 2.3 gal.
7. Volume of water removed from well 10.0 gal.
8. Volume of water added (if any) --- gal.
9. Source of water added N/A
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>5.60</u> ft.	<u>0.00</u> ft.
Date	b. <u>12/05/2011</u> m m d d y y y y	<u>12/05/2011</u> m m d d y y y y
Time	c. <u>01:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>04:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>---</u> inches	<u>---</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>---</u> mg/l	<u>---</u> mg/l
15. COD	<u>---</u> mg/l	<u>---</u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Andrew</u>	Last Name: <u>Plier</u>
Firm:	<u>OTIE</u>	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Roy Last Name: Van Gheem

Facility/Firm: \_\_\_\_\_

Street: 108 West Main St.

City/State/Zip: Little Chute, WI 54140

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: ADr

Print Name: Andrew J Plier

Firm: OTIE - U.S EPA Contractor

NOTE: See instructions for more information including a list of county codes and well type codes.

Facility Name		Facility ID Number		License, Permit or Monitoring No.		Date		Completed By (Name and Firm)												
Sandies DCL						11/16/11		Caitlin Ruzicka - OTIE												
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N E W	Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Inf. Stds.	Gradient	Distance to Waste
						Diam.	Type	Top of Well	Ground Surface	MSL (ft)	Site Datum (ft)	Screen Top	Initial Groundwater	Well Depth						
VV350	SDC-MW-1		44°16.759'	N	11/16/11	2	P	731.5	732	✓		5	10	20	15	26' below	A	✓	S	15.5
			88°18.973'	W																
VV351	SDC-MW-2		44°16.753'	N	11/16/11	2	P	731.5	732	✓		5	8	20	15	26' below	A	✓	S	29
			88°18.969'	W																
VV352	SDC-MW-3		44°16.749'	N	11/16/11	2	P	731.5	732	✓		5	6	20	15	26' below	A	✓	S	35
			88°18.968'	W																

Location Coordinates Are:

State Plane Coordinate     Local Grid System

Northern     Central     Southern

Grid Origin Location: (Check if estimated: )

Lat. 44° 16' 759"    Long. 88° 18' 973" or

St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N Zone \_\_\_\_\_

Remarks:

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Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.



**APPENDIX C**  
**Quality Control**

## **Field Quality Control Requirements**

Field QC samples will be collected and analyzed as necessary to assess the quality of data generated from sampling activities. These samples may include trip blanks, field blanks, equipment rinsate blanks, field duplicates, field split samples, MS samples, MSD samples, and matrix duplicate samples. Field QC measurements may include field replicate measurements and checks of instrument responses against QC standards.

Trip blanks are used to assess the potential for sample contamination during handling, shipment, and storage. Trip blanks are sample bottles filled by the analytical laboratory with organic-free water. The trip blanks are sealed and transported to the field; kept with empty sample bottles and then with the investigative samples throughout the field effort; and returned to the laboratory for analysis with the investigative samples. Trip blanks are never opened in the field. One trip blank is usually included within every shipping cooler of liquid samples to be analyzed for VOCs.

Field blanks are samples of the same or similar matrix as the actual investigative samples that are exposed to the sampling environment or equipment at the time of sampling. They are used to assess contamination resulting from ambient conditions. Field blanks are required for liquid matrices. For aqueous samples, field blanks consist of analyte-free water such as degasified organic-free water for VOC analysis, HPLC water for SVOC analysis, and de-ionized or de-mineralized water for inorganic analyses. Field blanks are generally not required for solid matrices but may be collected on a case-by-case basis. Typically, one field blank is collected for every 10 or fewer liquid investigative samples. Equipment rinsate blanks are collected when sampling equipment is used. These blanks assess the cleanliness of sampling equipment and the effectiveness of equipment decontamination. Equipment rinsate blanks are collected by pouring analyte-free water over surfaces of cleaned sampling equipment that contact sample media. Equipment rinsate blanks are collected after sampling equipment has been decontaminated but prior to being reused for sampling. Equipment rinsate blanks are typically collected for each type of decontaminated sampling equipment.

Field duplicate samples are independent samples collected as close as possible in space and time to the original investigative sample. Immediately following collection of the original sample, the field duplicate sample is collected using the same collection method. Care should be taken to collect the field duplicate sample as close to the location of the original sample as possible. Field duplicate samples can measure how sampling and field procedures influence the precision of an environmental measurement. They can also provide information on the heterogeneity of a sampling location. Typically, field duplicates are collected at a frequency of one for every 10 investigative samples of the same matrix type.

Field split samples are usually a set of two or more samples taken from a larger homogenized sample. The larger sample is usually collected from a single sampling location, but can also be a composite sample. Field split samples can be sent to two or more laboratories and are used to provide comparison data between the laboratories. Regulatory agencies involved in a project may request that field split samples be collected to monitor how closely laboratories are meeting project-specific QA objectives. MS/MSD samples are typically collected for analysis by organic methods, and also often for analysis by inorganic methods. Solid MS/MSDs usually require no extra volume. Each liquid MS/MSD sample is a single sample, usually collected from a single sampling location at triple the normal sample volume. MS and matrix duplicate samples are typically collected for inorganic analysis. The MS sample and matrix duplicate sample are each a single sample, usually collected from a single location at double the normal sample volume. In the laboratory, MS/MSD samples and MS samples are spiked with known amounts of analytes. Matrix duplicate samples are not spiked. Analytical results of MS/MSDs are used to measure the precision and accuracy of the laboratory organic (or inorganic) analytical program and MSs are used to measure the accuracy of the inorganic analytical program. Matrix duplicate samples are used to

measure the precision of the inorganic analytical program. Each of these QC samples is typically collected and analyzed at a frequency of one for every 20 investigative samples per matrix. QC checks for field measurements will consist primarily of initial and continuing calibration checks of field equipment. When applicable, QC check standards independent of the calibration standards will be used to check equipment performance. For example, when checking the accuracy of field equipment such as pH meters, a standard buffer solution independent of the calibration standards may be used. Precision of field measurements will usually be checked by taking replicate measurements. To the extent possible, OTIE will use USEPA-approved field methods. If approved methods are not available, OTIE SOPs will be referenced in the project-specific QAPP. The types and frequencies of field QC measurements and the QC limits for these measurements will be specified in the project-specific QAPP.

**TABLE C-1**  
**Required Sample Volumes, Containers, Preservation Techniques, and Holding Time**

Matrix	Parameter	Analytical Method <sup>a</sup>	Volume and Container	Preservation Techniques	Holding Time <sup>b</sup> (Extraction/Analysis)
Water	Volatile organic compounds (VOC)	SW-846: 8015B, 8021B, 8260B  CLP: OLC03.2, OLM04.3, SOM01.1	Three 40-mL glass vials with Teflon <sup>®</sup> -lined septum	To pH # 2 with hydrochloric acid; sodium thiosulfate if residual chlorine; store at 4°C	NA <sup>c</sup> /14 days

Notes:

mL = Milliliter

<sup>a</sup> Analytical methods listed are from either SW-846 (Test Methods for Evaluating Solid Waste) or CLP (Contract Laboratory Program) Statements of Work.

<sup>b</sup> Holding time is measured from the time of sample collection to the time of sample extraction and analysis.

<sup>c</sup> NA = Not applicable

**APPENDIX D**  
**VALIDATED ANALYTICAL DATA**



## MEMORANDUM

**Date:** February 17, 2012

**To:** Naren Babu, Project Manager, OTIE  
Superfund Technical Assessment and Response Team (START) for Region 5

**Prepared by:** Keely Meadows, START chemist for Region 5

**QA/QC** Russell Henderson, START Senior Chemist for Region 5

**Concurrence by:**

**Subject:** Data Validation for Sandies Dry Cleaners RV  
Little Chute, WI  
Project TDD No. TO-01-11-08-0020

Laboratory: Test America Laboratories, Inc., South Holland, Illinois  
Sample Delivery Group (SDG): 610-1459-1

### 1.0 INTRODUCTION

The START chemist for Region 5 validated analytical data for 3 water samples and 1 duplicate water sample for volatile organic compounds (VOCs). Samples were collected at the Sandies Dry Cleaners RV site in Little Chute, Wisconsin on February 1, 2012. The samples were analyzed under SDG 610-1459-1 by Test America Laboratories, Inc., of South Holland, Illinois using U.S. Environmental Protection Agency (U.S. EPA) method 8260B.

Laboratory data was validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Surrogate recoveries
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

## **2.0 ORGANIC DATA VALIDATION RESULTS**

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data package, it was inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

### **2.1 WATER SAMPLES BY METHOD 8260B**

#### ***2.1.1 SAMPLE HANDLING***

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. No discrepancies were noted.

#### ***2.1.2 SAMPLE PRESERVATION AND HOLDING TIME***

Samples were analyzed within holding time criteria. No discrepancies were noted.

#### ***2.1.3 BLANK RESULTS***

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (MB 610-1554/4) was run with this SDG. No detects were noted.

A trip blank was also submitted with this SDG. No detects were noted.

#### ***2.1.4 SURROGATE RECOVERIES***

Laboratory performance on individual samples is established by means of fortifying each sample with surrogate compounds (System Monitoring Compounds). Surrogate spike compounds included Dibromofluoromethane, Toluene-d8, and 4-Bromofluorobenzene.

No discrepancies were noted.

#### ***2.1.5 MS/MSD RECOVERY RESULTS***

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

A MS/MSD was run on sample SDC-MW-1-2112. Bromomethane had slightly high MS/MSD recoveries. Trichlorofluoromethane also had a slightly biased high MSD recovery. Since these compounds were not detected in sample SDC-MW-1-2112, no further action was taken to qualify the results based on the biased high MS/MSD recoveries.

### ***2.1.6 LCS RECOVERY RESULTS***

Data for the LCS is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS is fortified with the full list of VOC compounds and analyzed with each batch of samples. The LCS accuracy performance is measured by percent recovery.

The LCS run with the samples was within limits for percent recoveries.

### ***2.1.7 FIELD DUPLICATES***

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Sample SDC-MW-3-2112 had a duplicate collected (SDC-MW-4-2112) for VOCs. Tetrachloroethene in both samples was qualified as estimated and flagged "J" due to the relative percent difference being above 20%. No other deficiencies were noted.

## **3.0 OVERALL ASSESSMENT OF DATA**

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.



**ATTACHMENT**  
**SUMMARY OF ANALYTICAL RESULTS**  
**AND**  
**CHAIN-OF-CUSTODY**

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-1-2112**

**Lab Sample ID: 610-1459-1**

**Date Collected: 02/01/12 09:55**

**Matrix: Ground Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1
1,1,1-Trichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,1,2,2-Tetrachloroethane	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,1,2-Trichloroethane	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1
1,1-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,1-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,1-Dichloropropene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,2,3-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1
1,2,3-Trichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,2,4-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,2-Dibromo-3-Chloropropane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,2-Dibromoethane (EDB)	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,2-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,3-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
1,3-Dichloropropane	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1
1,4-Dichlorobenzene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
2,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
2-Chlorotoluene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
4-Chlorotoluene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Benzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Bromobenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Bromochloromethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Bromodichloromethane	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Bromoform	<0.20		5.0	0.20	ug/L			02/03/12 09:17	1
Bromomethane	<0.50		5.0	0.50	ug/L			02/03/12 09:17	1
Carbon tetrachloride	<0.80		2.0	0.80	ug/L			02/03/12 09:17	1
Chlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Chlorodibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Chloroethane	<1.0		5.0	1.0	ug/L			02/03/12 09:17	1
Chloroform	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Chloromethane	<0.30		2.0	0.30	ug/L			02/03/12 09:17	1
cis-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Dibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Ethylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Hexachlorobutadiene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Isopropyl ether	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Isopropylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Methyl tert-butyl ether	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Methylene Chloride	<1.0		2.0	1.0	ug/L			02/03/12 09:17	1
Naphthalene	<0.25		5.0	0.25	ug/L			02/03/12 09:17	1
n-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
N-Propylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
p-Isopropyltoluene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
sec-Butylbenzene	<0.25		2.0	0.25	ug/L			02/03/12 09:17	1

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-1-2112**

**Lab Sample ID: 610-1459-1**

**Date Collected: 02/01/12 09:55**

**Matrix: Ground Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.50		5.0	0.50	ug/L			02/03/12 09:17	1
tert-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Tetrachloroethene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Toluene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
trans-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Trichloroethene	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 09:17	1
Vinyl chloride	<0.20		2.0	0.20	ug/L			02/03/12 09:17	1
Xylenes, Total	<0.50		6.0	0.50	ug/L			02/03/12 09:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		80 - 120					02/03/12 09:17	1
Dibromofluoromethane (Surr)	101		80 - 120					02/03/12 09:17	1
Toluene-d8 (Surr)	101		80 - 120					02/03/12 09:17	1

**Client Sample ID: SDC-MW-2-2112**

**Lab Sample ID: 610-1459-2**

**Date Collected: 02/01/12 12:00**

**Matrix: Ground Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
1,1,1-Trichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,1,1,2,2-Tetrachloroethane	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,1,2-Trichloroethane	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
1,1-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,1-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,1-Dichloropropene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,2,3-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
1,2,3-Trichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,2,4-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,2-Dibromo-3-Chloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,2-Dibromoethane (EDB)	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,2-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,3-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
1,3-Dichloropropane	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
1,4-Dichlorobenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
2,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
2-Chlorotoluene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
4-Chlorotoluene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Benzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Bromobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Bromochloromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Bromodichloromethane	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Bromoform	<0.20		5.0	0.20	ug/L			02/03/12 10:10	1

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-2-2112**

**Lab Sample ID: 610-1459-2**

Date Collected: 02/01/12 12:00

Matrix: Ground Water

Date Received: 02/02/12 12:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.50		5.0	0.50	ug/L			02/03/12 10:10	1
Carbon tetrachloride	<0.80		2.0	0.80	ug/L			02/03/12 10:10	1
Chlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Chlorodibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Chloroethane	<1.0		5.0	1.0	ug/L			02/03/12 10:10	1
Chloroform	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Chloromethane	<0.30		2.0	0.30	ug/L			02/03/12 10:10	1
<b>cis-1,2-Dichloroethene</b>	<b>3.5</b>		2.0	0.50	ug/L			02/03/12 10:10	1
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Dibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Ethylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Hexachlorobutadiene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Isopropyl ether	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Isopropylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Methyl tert-butyl ether	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Methylene Chloride	<1.0		2.0	1.0	ug/L			02/03/12 10:10	1
Naphthalene	<0.25		5.0	0.25	ug/L			02/03/12 10:10	1
n-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
N-Propylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
p-Isopropyltoluene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
sec-Butylbenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:10	1
Styrene	<0.50		5.0	0.50	ug/L			02/03/12 10:10	1
tert-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
<b>Tetrachloroethene</b>	<b>5.6</b>		2.0	0.50	ug/L			02/03/12 10:10	1
Toluene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
trans-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
<b>Trichloroethene</b>	<b>0.59 J</b>		2.0	0.20	ug/L			02/03/12 10:10	1
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:10	1
Vinyl chloride	<0.20		2.0	0.20	ug/L			02/03/12 10:10	1
Xylenes, Total	<0.50		6.0	0.50	ug/L			02/03/12 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		02/03/12 10:10	1
Dibromofluoromethane (Surr)	101		80 - 120		02/03/12 10:10	1
Toluene-d8 (Surr)	101		80 - 120		02/03/12 10:10	1

**Client Sample ID: SDC-MW-3-2112**

**Lab Sample ID: 610-1459-3**

Date Collected: 02/01/12 13:25

Matrix: Ground Water

Date Received: 02/02/12 12:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
1,1,1-Trichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,1,2,2-Tetrachloroethane	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,1,2-Trichloroethane	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
1,1-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,1-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-3-2112**

**Lab Sample ID: 610-1459-3**

**Date Collected: 02/01/12 13:25**

**Matrix: Ground Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,2,3-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
1,2,3-Trichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,2,4-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,2-Dibromo-3-Chloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,2-Dibromoethane (EDB)	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,2-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,3-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
1,3-Dichloropropane	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
1,4-Dichlorobenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
2,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
2-Chlorotoluene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
4-Chlorotoluene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Benzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Bromobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Bromochloromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Bromodichloromethane	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Bromoform	<0.20		5.0	0.20	ug/L			02/03/12 10:37	1
Bromomethane	<0.50		5.0	0.50	ug/L			02/03/12 10:37	1
Carbon tetrachloride	<0.80		2.0	0.80	ug/L			02/03/12 10:37	1
Chlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Chlorodibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Chloroethane	<1.0		5.0	1.0	ug/L			02/03/12 10:37	1
<b>Chloroform</b>	<b>0.28</b>	<b>J</b>	2.0	0.20	ug/L			02/03/12 10:37	1
Chloromethane	<0.30		2.0	0.30	ug/L			02/03/12 10:37	1
<b>cis-1,2-Dichloroethene</b>	<b>9.5</b>		2.0	0.50	ug/L			02/03/12 10:37	1
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Dibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Ethylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Hexachlorobutadiene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Isopropyl ether	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Isopropylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Methyl tert-butyl ether	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Methylene Chloride	<1.0		2.0	1.0	ug/L			02/03/12 10:37	1
Naphthalene	<0.25		5.0	0.25	ug/L			02/03/12 10:37	1
n-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
N-Propylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
p-Isopropyltoluene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
sec-Butylbenzene	<0.25		2.0	0.25	ug/L			02/03/12 10:37	1
Styrene	<0.50		5.0	0.50	ug/L			02/03/12 10:37	1
tert-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Toluene	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
<b>trans-1,2-Dichloroethene</b>	<b>1.0</b>	<b>J</b>	2.0	0.50	ug/L			02/03/12 10:37	1
trans-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
<b>Trichloroethene</b>	<b>19</b>		2.0	0.20	ug/L			02/03/12 10:37	1

# Client Sample Results

Client: Environmental Restoration LLC  
Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-3-2112**

**Lab Sample ID: 610-1459-3**

Date Collected: 02/01/12 13:25

Matrix: Ground Water

Date Received: 02/02/12 12:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 10:37	1
Vinyl chloride	<0.20		2.0	0.20	ug/L			02/03/12 10:37	1
Xylenes, Total	<0.50		6.0	0.50	ug/L			02/03/12 10:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		80 - 120					02/03/12 10:37	1
Dibromofluoromethane (Surr)	101		80 - 120					02/03/12 10:37	1
Toluene-d8 (Surr)	102		80 - 120					02/03/12 10:37	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>390</b>	<b>J</b>	10	2.5	ug/L			02/03/12 11:34	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		80 - 120					02/03/12 11:34	5
Dibromofluoromethane (Surr)	101		80 - 120					02/03/12 11:34	5
Toluene-d8 (Surr)	101		80 - 120					02/03/12 11:34	5

**Client Sample ID: SDC-MW-4-2112**

**Lab Sample ID: 610-1459-4**

Date Collected: 02/01/12 13:30

Matrix: Ground Water

Date Received: 02/02/12 12:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
1,1,1-Trichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,1,2,2-Tetrachloroethane	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,1,2-Trichloroethane	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
1,1-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,1-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,1-Dichloropropene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,2,3-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
1,2,3-Trichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,2,4-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,2-Dibromo-3-Chloropropane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,2-Dibromoethane (EDB)	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,2-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,3-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
1,3-Dichloropropane	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
1,4-Dichlorobenzene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
2,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
2-Chlorotoluene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
4-Chlorotoluene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Benzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Bromobenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Bromochloromethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: SDC-MW-4-2112**

**Lab Sample ID: 610-1459-4**

Date Collected: 02/01/12 13:30

Matrix: Ground Water

Date Received: 02/02/12 12:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Bromoform	<0.20		5.0	0.20	ug/L			02/03/12 12:00	1
Bromomethane	<0.50		5.0	0.50	ug/L			02/03/12 12:00	1
Carbon tetrachloride	<0.80		2.0	0.80	ug/L			02/03/12 12:00	1
Chlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Chlorodibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Chloroethane	<1.0		5.0	1.0	ug/L			02/03/12 12:00	1
<b>Chloroform</b>	<b>0.27</b>	<b>J</b>	2.0	0.20	ug/L			02/03/12 12:00	1
Chloromethane	<0.30		2.0	0.30	ug/L			02/03/12 12:00	1
<b>cis-1,2-Dichloroethene</b>	<b>9.1</b>		2.0	0.50	ug/L			02/03/12 12:00	1
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Dibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Ethylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Hexachlorobutadiene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Isopropyl ether	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Isopropylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Methyl tert-butyl ether	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Methylene Chloride	<1.0		2.0	1.0	ug/L			02/03/12 12:00	1
Naphthalene	<0.25		5.0	0.25	ug/L			02/03/12 12:00	1
n-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
N-Propylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
p-Isopropyltoluene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
sec-Butylbenzene	<0.25		2.0	0.25	ug/L			02/03/12 12:00	1
Styrene	<0.50		5.0	0.50	ug/L			02/03/12 12:00	1
tert-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Toluene	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
<b>trans-1,2-Dichloroethene</b>	<b>0.88</b>	<b>J</b>	2.0	0.50	ug/L			02/03/12 12:00	1
trans-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
<b>Trichloroethene</b>	<b>18</b>		2.0	0.20	ug/L			02/03/12 12:00	1
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 12:00	1
Vinyl chloride	<0.20		2.0	0.20	ug/L			02/03/12 12:00	1
Xylenes, Total	<0.50		6.0	0.50	ug/L			02/03/12 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		02/03/12 12:00	1
Dibromofluoromethane (Surr)	102		80 - 120		02/03/12 12:00	1
Toluene-d8 (Surr)	101		80 - 120		02/03/12 12:00	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>270</b>	<b>J</b>	8.0	2.0	ug/L			02/03/12 12:49	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		02/03/12 12:49	4
Dibromofluoromethane (Surr)	101		80 - 120		02/03/12 12:49	4
Toluene-d8 (Surr)	101		80 - 120		02/03/12 12:49	4

*KRM*

# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 610-1459-5**

**Date Collected: 02/01/12 00:00**

**Matrix: Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1
1,1,1-Trichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,1,2,2-Tetrachloroethane	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,1,2-Trichloroethane	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1
1,1-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,1-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,1-Dichloropropene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,2,3-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1
1,2,3-Trichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,2,4-Trichlorobenzene	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,2-Dibromo-3-Chloropropane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,2-Dibromoethane (EDB)	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,2-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,3-Dichlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
1,3-Dichloropropane	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1
1,4-Dichlorobenzene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
2,2-Dichloropropane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
2-Chlorotoluene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
4-Chlorotoluene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Benzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Bromobenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Bromochloromethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Bromodichloromethane	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Bromoform	<0.20		5.0	0.20	ug/L			02/03/12 08:51	1
Bromomethane	<0.50		5.0	0.50	ug/L			02/03/12 08:51	1
Carbon tetrachloride	<0.80		2.0	0.80	ug/L			02/03/12 08:51	1
Chlorobenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Chlorodibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Chloroethane	<1.0		5.0	1.0	ug/L			02/03/12 08:51	1
Chloroform	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Chloromethane	<0.30		2.0	0.30	ug/L			02/03/12 08:51	1
cis-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
cis-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Dibromomethane	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Dichlorodifluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Ethylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Hexachlorobutadiene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Isopropyl ether	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Isopropylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Methyl tert-butyl ether	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Methylene Chloride	<1.0		2.0	1.0	ug/L			02/03/12 08:51	1
Naphthalene	<0.25		5.0	0.25	ug/L			02/03/12 08:51	1
n-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
N-Propylbenzene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
p-Isopropyltoluene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
sec-Butylbenzene	<0.25		2.0	0.25	ug/L			02/03/12 08:51	1





# Client Sample Results

Client: Environmental Restoration LLC  
 Project/Site: Sandie's Dry Cleaners

TestAmerica Job ID: 610-1459-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 610-1459-5**

**Date Collected: 02/01/12 00:00**

**Matrix: Water**

**Date Received: 02/02/12 12:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.50		5.0	0.50	ug/L			02/03/12 08:51	1
tert-Butylbenzene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Tetrachloroethene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Toluene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
trans-1,3-Dichloropropene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Trichloroethene	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Trichlorofluoromethane	<0.50		2.0	0.50	ug/L			02/03/12 08:51	1
Vinyl chloride	<0.20		2.0	0.20	ug/L			02/03/12 08:51	1
Xylenes, Total	<0.50		6.0	0.50	ug/L			02/03/12 08:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		02/03/12 08:51	1
Dibromofluoromethane (Surr)	100		80 - 120		02/03/12 08:51	1
Toluene-d8 (Surr)	101		80 - 120		02/03/12 08:51	1

VSM

# TestAmerica

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036  
Fax 920-261-8120

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?  
Compliance Monitoring

THE LEADER IN ENVIRONMENTAL TESTING

Client Name: ER JOHN BETHRENS  
Address: ENVIRONMENTAL RESTORATION  
City/State/Zip Code: LITTLE CHUTE, WI

Project Name: SANDIES DAY CLEANER & LAUNDRY RV  
Project #: \_\_\_\_\_  
Site/Location ID: \_\_\_\_\_  
State: \_\_\_\_\_

Project Manager: REGINA NIAGAM  
Telephone Number: (312) 217-7003  
Fax: (312) 220-7004

Report To: ENVIRONMENTAL RESTORATION - JOHN BETHRENS  
Invoice To: \_\_\_\_\_  
Quote #: \_\_\_\_\_  
PO#: \_\_\_\_\_

Sampler Signature: Camp Webb

E-mail address: ENVIRAM@OTTE.COM

Date Needed: \_\_\_\_\_  
Rush (surcharges may apply) \_\_\_\_\_

Matrix: SL - Sludge DW - Drinking Water  
GW - Groundwater S - Soil/Solid  
WW - Wastewater Specify Other

Preservation & # of Containers  
HNO<sub>3</sub> \_\_\_\_\_  
HCl \_\_\_\_\_  
NaOH \_\_\_\_\_  
H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_  
Methanol \_\_\_\_\_  
None \_\_\_\_\_  
Other (Specify) \_\_\_\_\_

QC Deliverables  
None  
 Level 2  
(Batch QC)  
Level 3  
Level 4  
Other: \_\_\_\_\_

- 1
- 2
- 3
- 4

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)	Analyze For:	REMARKS
SDC-MW-1-2112	2/11/12	0955	G	NO	GW									BILLING & INVOICE QUESTIONS TO JOHN BETHRENS - ENVIRONMENTAL RESTORATION.
SDC-MW-2-2112		1200	G		GW									
SDC-MW-3-2112		1325	G		GW									
SDC-MW-4-2112		1330	G		GW									

Special Instructions: DETECTION LEVELS SHOULD BE AT OR BELOW WISCONSIN MCLs for PCE, TCE, DCE, & VC.

LABORATORY COMMENTS:

Init Lab Temp: \_\_\_\_\_  
Rec Lab Temp: 3.4°C  
Custody Seals: Y N NA  
Bottles Supplied by TestAmerica:  N

Relinquished By: <u>Camp Webb</u>	Date: <u>2-11</u>	Time: <u>1000</u>	Received By: <u>[Signature]</u>	Date: <u>2/11/12</u>	Time: <u>11:13</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Method of Shipment: Fed Ex Overnight

600-1457