VAPOR INTRUSION REPORT

Former Doro Cleaners
(Site No. 915238)
Cheektowaga, New York

New York State Department of Environmental Conservation

Work Assignment No. D007621-6

February 2014

CDM Smith

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Section 1
Introduction

1.1 Background

The Former Doro Dry Cleaners Site, herein referred to as "Site", is a 1.8 acre area including two attached buildings totaling approximately 10,500 square feet. The smaller of the two buildings is a two-story brick front block building with a store front facing Genesee Street and office space on the second floor. The larger building is a one-story brick front block building warehouse/storage area, which housed the dry cleaning operations. The buildings are currently being used for storage, with the intent of a new tenant occupying the building. Asphalt parking areas are located to the south and west of the buildings. An open grassy area, approximately 55-feet wide by 960-feet long, extends from the north side of the building to New York State Route 33, Kensington Expressway.

A residential area is located immediately adjacent to the northwest of the Site. A vacant commercial building and SweetWorks, a candy manufacturing facility, are located to the east of the Site. Tread City Tire and Wheel is located on Genesee Street to the west of the Site and a small shopping plaza and another residential area are located across Genesee Street to the south of the Site. A Site Location Map is included as **Figure 1.**

According to the Phase I Environmental Site Assessment conducted by Fifty-six Services, Inc. in December 2008, the Site operated as a dry cleaning facility (Doro Cleaners) for approximately 40 years starting in the 1950's. The buildings were vacant at the time of the Phase I Environmental Assessment and were used for storage.

A former gas station was identified immediately west of the Site across Colden Court on Genesee Street. The property is now Tread City Tire and Wheel. No historical spills were reported to NYSDEC in the area of the Site and no petroleum bulk storage (PBS) or chemical bulk storage (CBS) records were found for the site.

The New York State Department of Environmental Conservation (NYSDEC) assigned Site Number 9-15-238 to the Site under the State Superfund Program and listed the Site on the Registry of Inactive Hazardous Waste Sites as a Class 2 site after investigation work began in 2008. Contaminants of concern at the Site include the chlorinated volatile organic compounds (CVOCs) tetrachloroethylene (PCE) and its breakdown products of trichloroethylene (TCE), *cis*-1,2-dichloroethylene (*cis*-1,2-DCE) and vinyl chloride (VC).

1.2 Overview

CDM Smith conducted a vapor intrusion investigation between April 22 and April 23, 2013 at four structures both on- and off-site. The purpose of the vapor intrusion investigation was to determine if VOCs in the groundwater are impacting the indoor air quality of the structures on- and off-site. To determine if VOCs are present, sub-slab vapor samples were collected beneath the structures and indoor air samples were collected inside the structure. Outdoor ambient air samples were collected to determine background VOC concentrations in the area. The investigation included collecting sub-slab vapor samples, indoor air samples and outdoor ambient air samples from three off-site structures and

both of the attached on-site structures. CDM Smith subcontracted the air analyses to the off-site, Con-Test Analytical Laboratory, an ELAP certified laboratory located in East Longmeadow, Massachusetts and third-party data validation was completed by Environmental Quality Associates (EQA), located in Middletown, New York.

Based on the soil and groundwater data collected during Phase 1 of CDM Smith's investigation, CDM Smith selected the locations to be sampled and confirmed them with the NYSDEC project manager, who in turn confirmed the locations with the New York State Department of Health (NYSDOH). Sub-slab soil vapor and indoor air samples were collected from all four of the sample locations. Three outdoor ambient air samples were collected, one outside of each residence and one in between the on-site and off-site commercial structures. The locations of the structures sampled are identified **on Figure 2**. **Table 1** provides a summary of the vapor intrusion sample information.

The following sections provide a summary of the sampling methodology and sample results. Copies of the field notes are provided in **Appendix A**, photo documentation is provided in **Appendix B**, NYSDOH Indoor Air Quality Questionnaire Building Inventory Forms are provided in **Appendix C,** and the Data Validation Report is provided in **Appendix D**.

Section 2
Sub-Slab Soil Vapor Point Installation, Sampling and Analysis

2.1 Sub-Slab Vapor Point Installation

Five sub-slab vapor points were installed by CDM Smith personnel between April 22, 2013 and April 23, 2013 at four different structures (**Figure 2**) both on- and off-site in accordance with *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State* guidance document (NYSDOH, October 2006). Specifically, two samples were collected at residential locations shown on **Figure 2**, two samples were collected from the on-site structure, and one sample was collected from the adjacent commercial structure.

Prior to installing the sub-slab vapor points, photos were taken of the building floor (**Appendix B**), the floor was inspected and any penetrations (sumps or drains) or cracks were noted on the *Indoor Air Quality Questionnaire and Building Inventory*. A chemical inventory was also completed as part of the *Indoor Air Quality Questionnaire and Building Inventory* to document any chemicals present that may impact the sample results. A copy of the completed questionnaire for each location is provided in **Appendix C**.

The sub-slab sample points were installed by using a hammer drill with a 1.25-inch diameter bit to drill a hole to a depth of approximately three-inches beneath the concrete slab. When the drilling was complete, the area around the borehole was cleaned of all concrete dust and dirt. A 3/8-inch outer diameter, ¼-inch inner diameter Teflon® lined tubing was extended about 2-inches into the sub-slab void space. The annular space between the borehole and the sample tubing was sealed with electrical conduit putty to prevent ambient air infiltration. The putty label indicated that it contained no VOCs.

2.2 Sub-Slab Soil Vapor Sampling and Analysis

Prior to sampling, the sealed sample point was tested for potential surface air infiltration using a helium tracer gas test. The procedure for helium tracer gas testing was conducted in accordance with the NYSDOH guidance document as follows:

- The soil vapor sampling tube is run through the hole in the prepared enclosure that is placed over the borehole.
- Helium gas is released through a sample port into the enclosure until a concentration of greater than 80 percent (%) is reached. The Helium enriched environment is monitored and confirmed with a Dielectric multi-gas detector inserted into a second sample port.
- After confirming 80% helium in the enclosure, the soil vapor sampling tube is purged using the low-flow air sample pump, purging at a rate of not more than 0.2 liters per minute and screening for the presence of helium using a helium gas detector and for VOCs using a MiniRae photo ionization detector (PID). Tracer gas testing was performed at all sample locations.

No helium detections were observed during tracer gas tests. **Table 1** provides a summary of the sub-slab vapor sample identification, trace gas test reading, PID reading, and the canister and regulator numbers used at each sample location. One duplicate sample was collected from the sub-slab vapor point at the SV-2 SS1 location and is identified as DUP-2.

All sub-slab, indoor air, and outdoor ambient air samples were collected using a 6-Liter Summa canister equipped with a 24-hour lab calibrated regulator. Sample collection was terminated for all samples before the canister vacuum reached zero inches of mercury. The canister vacuum levels at the start and end of sample collection was recorded on the sample label, on the NYSDOH Indoor Air Quality Questionnaire and Building Inventory Form (**Appendix C**), and on the sample chain of custody form. The Summa canister sample tag was labeled with sample identification, the start and end time of sample collection, date, project identification and requested laboratory analysis. A sample information summary is included as **Table 1**. The sub-slab soil vapor samples were submitted to Con-test for VOC analysis using EPA Method TO-15. The results are discussed in **Section 4** and a summary analytical report is provided in **Appendix D.**

Section 3

Indoor Air and Outdoor Ambient Air Sampling and Analysis

3.1 Indoor Air Sampling and Analysis

CDM Smith collected five indoor air samples. Two samples were collected at residential locations shown on **Figure 2**, (identified as SV-4 and SV-5), two samples were collected from the on-site structure (identified as SV-1 and SV-2), and one sample was collected from the adjacent commercial structure (identified as SV-3). All samples were collected from the lowest level of the structure, either the basement if present or the ground floor. Indoor air samples were co-located with sub-slab samples.

The indoor air samples were collected with 6-liter Summa canisters equipped with 24-hour laboratory-calibrated flow regulators. Summa canisters were placed in such a location as to collect a representative sample from the breathing zone at approximately three feet above the floor. CDM Smith completed the NYSDOH Indoor Air Quality Questionnaire and Building Inventory Form for each sample location as part of the indoor air sampling. Copies of the completed forms are provided in **Appendix C**.

3.2 Outdoor Ambient Air Sampling and Analysis

Three outdoor ambient air samples were collected, one for each residential sample location (identified as SV-4 OA and SV-5 OA) and one located in between the on-site and off-site commercial structures. The outdoor ambient air samples were collected with 6-liter Summa canisters equipped with 24-hour laboratory-calibrated flow regulators. Sample canisters were placed in a location where they would be out of elements and could not be tampered with.

Section 4

Vapor Intrusion Sampling Results

4.1 Sub-Slab Vapor, Indoor Air and Outdoor Ambient Air Sampling Results

Five sub-slab vapor samples, four indoor air samples, three outdoor ambient air samples, and two duplicate samples were analyzed by Con-test by EPA Method TO-15 to determine the extent of soil vapor intrusion and the impacts to air quality.

A total of 16 different VOCs were detected in the 12 samples that were collected. Of the 16 compounds detected, 6 were chlorinated including PCE and TCE, VC and *cis*-1,2-DCE. Two compounds commonly associated with gasoline (ethyl benzene and ethanol) were also detected at varying concentrations in multiple samples collected.

There are currently no standards, criteria or guidance values for sub-slab or general soil vapor samples. Therefore, comparisons made to the NYSDOH Vapor Intrusion guidance and EPA 2001 BASE Database serve as guidelines and are for reference purposes only.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH soil vapor guidance. The results for PCE, and 1,1,1-trichloroethane (1,1,1-TCA) were compared to Matrix 2 of the NYSDOH soil vapor guidance. Indoor air and ambient air results were also compared to NYSDOH Guidance Appendix C Table C2- *EPA 2001 Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method, 90th percentile* (EPA BASE 90th percentile). These values provide background concentrations of VOCs expected in typical indoor and outdoor locations. Sub-slab air concentrations were also compared to NYSDOH Table 3.1 *Air Guideline Values*.

The analytical results can be found in **Table 2** and the analytical summary report is included as Appendix D. Below is a summary of the compounds detected by sampling location.

4.1.1 SV-1 – Front Building

The SV-1 samples were collected on the west side of the front on-site building (**Figure 2**). Sub-slab sample SV-1 SS2 and indoor air sample SV-1 IA2 were collected at the SV-1 location. The outdoor air sample collected at location SV-2, SV-2 OA, is for the same building as SV-1 and can serve as the outdoor air sample of SV-1.

The sub-slab sample, SV-1 SS2, exceeded the *NYSDOH Air Guideline Value* for PCE (100 µg/m^3) at 150 µg/m^3.

The indoor air sample SV-1 IA2 exceeded the *EPA BASE 90th percentile* concentration for 1,2,4-trimethylbenzene (9.5 µg/m^3) at 11.0 µg/m^3, *cis*-1,2-DCE (1.9 µg/m^3) at 4.50 µg/m^3, ethylbenzene (5.7 µg/m^3) at 7.70 µg/m^3, hexane (10.2 µg/m^3) at 26.00 µg/m^3, m,p-xylene (22.2 µg/m^3) at 28.00 µg/m^3, o-xylene (7.9 µg/m^3) at 10.00 µg/m^3, PCE (15.9 µg/m^3) at 200.00 µg/m^3, toluene (43 µg/m^3) at 46.00 µg/m^3, and TCE (4.2 µg/m^3) at 5.4 µg/m^3.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH Soil Vapor Guidance. The following actions are suggested by the matrix:

- Based on the concentration of TCE detected in the indoor air sample SV-1 IA2 (5.40 µg/m^3) and detection in the sub-slab greater than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.
- Based on the concentration of carbon tetrachloride detected in the indoor air sample SV-1 IA2 (0.43 µg/m^3) and detection in the sub-slab less than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

The results for PCE and 1,1,1-TCA were compared to Matrix 2 of the NYSDOH soil vapor guidance. The following actions are suggested by the matrix:

- Based on the concentration of PCE detected in the sub-slab sample SV-1 SS2 of 150 µg/m^3 and detection of indoor air greater than 100 µg/m^3, NYSDOH guidance suggests mitigation to minimize potential exposures associated with soil vapor intrusion.

No further action is suggested by the matrix for 1,1,1-TCA (non-detect). **Table 3** provides a summary of the recommended action by sample location as compared to the NYSDOH matrices.

4.1.2 SV-2 – Back Building

The SV-2 samples were collected on the east side of the rear on-site building (**Figure 2**). Sub-slab sample SV-2 SS1 and outdoor air sample SV-2 OA were collected at the SV-2 location. The indoor air sample collected at location SV-1, SV-1 IA2, is in the same building with SV-2, so can serve for comparison with the SV-2 sub-slab sample, SV-2 SS1.

The sub-slab sample exceeded the *NYSDOH Air Guideline Value* for PCE (100 µg/m^3) at 190 µg/m^3 and TCE (5.00 µg/m^3) at 5.9 µg/m^3.

The outdoor air sample exceeded the *EPA BASE 90th percentile* concentration for ethyl acetate (1.5 µg/m^3) at 2.10 µg/m^3.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH Soil Vapor Guidance. The following actions are suggested by the matrix:

- Based on the concentration of TCE detected in the indoor air sample SV-1 IA2 (5.40 µg/m^3) and detection in the sub-slab greater than 5 µg/m^3, NYSDOH guidance suggests mitigation to minimize potential exposures associated with soil vapor intrusion.
- Based on the concentration of carbon tetrachloride detected in the indoor air sample SV-1 IA2 (0.43 µg/m^3) and detection in the sub-slab less than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

The results for PCE and 1,1,1-TCA were compared to Matrix 2 of the NYSDOH soil vapor guidance. The following actions are suggested by the matrix:

- Based on the concentration of PCE detected in the sub-slab sample SV-2 SS1 of 190 µg/m^3 and detection of indoor air greater than 100 µg/m^3, NYSDOH guidance suggests mitigation to minimize potential exposures associated with soil vapor intrusion.

No further action is suggested by the matrix for 1,1,1-TCA (non-detect). **Table 3** provides a summary of the recommended action by sample location as compared to the NYSDOH matrices.

4.1.3 SV-3

The SV-3 samples were collected from the central west part of the commercial building located adjacent to the Site to the east (**Figure 2**). Indoor air sample SV-3 IA and sub-slab sample SV-3 SS were collected at the SV-3 location. The outdoor air sample collected at location SV-2, SV-2 OA, is located in between the on-site building and the off-site building, therefore SV-2 OA, so can serve for as the outdoor air sample for location SV-3.

The indoor air sample SV-3 IA exceeded the *EPA BASE 90th percentile* concentration for ethyl acetate (5.4 µg/m^3) at 6.8 µg/m^3 and naphthalene (5.1 µg/m^3) at 5.3 µg/m^3.

The sub-slab sample, SV-3 SS, did not exceed the *NYSDOH Air Guideline Value* for any contaminants.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH Soil Vapor Guidance. The following actions are suggested by the matrix:

- Based on the concentration of carbon tetrachloride detected in the indoor air sample SV-3 IA (0.45 µg/m^3) and detection in the sub-slab less than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

The results for PCE and 1,1,1-TCA were compared to Matrix 2 of the NYSDOH Soil Vapor Guidance. No further action is suggested by the matrices for 1,1,1-TCA (non-detect), PCE (non-detect), and TCE (non-detect). **Table 3** provides a summary of the recommended action by sample location as compared to the NYSDOH matrices.

4.1.4 SV-4

The SV-4 samples were collected from a private residence located northwest of the Site (**Figure 2**). Indoor air sample SV-4 IA, outdoor air sample SV-4 OA, and sub-slab sample SV-4 SS were collected at the SV-4 location.

The outdoor air sample SV-4 OA exceeded the *EPA BASE 90th percentile* concentration for ethyl acetate (1.5 µg/m^3) at 8.70 µg/m^3.

The indoor air sample SV-4 IA exceeded the *EPA BASE 90th percentile* concentration for ethanol (210.0 µg/m^3) at 220.0 µg/m^3 and ethyl acetate (5.4 µg/m^3) at 44 µg/m^3.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH Soil Vapor Guidance. The following actions are suggested by the matrix:

- Based on the concentration of carbon tetrachloride detected in the indoor air sample SV-4 IA (0.46 µg/m^3) and detection in the sub-slab less than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

The results for PCE and 1,1,1-TCA were compared to Matrix 2 of the NYSDOH Soil Vapor Guidance. No further action is suggested by the matrices for 1,1,1-TCA (non-detect), PCE (non-detect), and TCE (non-detect). **Table 3** provides a summary of the recommended action by sample location as compared to the NYSDOH matrices.

4.1.5 SV-5

The SV-5 samples were collected from a private residence located northwest of the Site (**Figure 2**). Indoor air sample SV-5 IA, outdoor air sample SV-5 OA, and sub-slab sample SV-5 SS were collected at the SV-5 location.

The indoor air sample SV-5 IA exceeded the *EPA BASE 90th percentile* concentration for ethanol (210.0 µg/m^3) at 500.0 µg/m^3.

The outdoor air sample exceeded the *EPA BASE 90th percentile* concentration for ethyl acetate (1.5 µg/m^3) at 1.7 µg/m^3.

The sub-slab results did not exceed the *NYSDOH Air Guideline Value* for any of the contaminants.

The results for TCE and carbon tetrachloride were compared to Matrix 1 of the NYSDOH Soil Vapor Guidance. The following actions are suggested by the matrix:

- Based on the concentration of carbon tetrachloride detected in the indoor air sample SV-5 IA (0.46 µg/m^3) and detection in the sub-slab less than 5 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

The results for PCE and 1,1,1-TCA were compared to Matrix 2 of the NYSDOH soil vapor guidance. The following actions are suggested by the matrix:

- Based on the concentration of 1,1,1-TCA detected in the indoor air sample SV-5 IA (7.1 µg/m^3) and detection in the sub-slab sample less than 100 µg/m^3, NYSDOH guidance suggests reasonable and practical actions should be implemented to identify source(s) and reduce exposures.

No further action is suggested by the matrices for PCE (non-detect) and TCE (non-detect). **Table 3** provides a summary of the recommended action by sample location as compared to the NYSDOH matrices.

4.2 Data Validation Findings

Data validation was completed by Environmental Quality Associates (EQA) of Middleton, New York. A complete copy of the Data Usability Summary Report (DUSR) is provided in **Appendix E**. The DUSR states that the air sample data is usable as reported with the following qualifications:

- Positive results for MIBK, acetone and IPA were qualified as estimated values (J) in associated samples, with indication of high bias. No positives were reported for 1,1,2,2-tetrachloroethane and therefore no qualifiers were assigned for this compound; and
- Freon-113 was qualified as estimated (UJ or J) in all SDG air samples, with indication of low bias due to reduced sensitivity relative to average ICAL RRF.

Section 5
Summary and Conclusions

The *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* is based on the relationship between sub-slab and indoor air vapor samples collected at each location. **Table 3** shows the recommended action for each location and the following sections provide a summary of the soil vapor intrusion investigation conducted in both the on-site and off-site sampling locations.

5.1 SV-1, 3466 Genesee St. – Front Building

SV-1 samples were collected from the front portion of the on-site building. Based on the NYSDOH matrices, the identified COCs for this sample location are TCE, carbon tetrachloride, and PCE. The NYSDOH matrix for PCE suggests mitigation to reduce exposure for this structure.

5.2 SV-2, 3466 Genesee St. – Back Building

SV-2 samples were collected from the back portion of the on-site building. Based on the NYSDOH matrices, the identified COCs for this sample location are TCE, PCE, and carbon tetrachloride. The NYSDOH matrices for TCE and PCE suggest mitigation to reduce exposure for this structure.

5.3 SV-3

SV-3 samples were collected from one location inside an off-site building. Based on the NYSDOH matrices, the identified COC for this sample location is carbon tetrachloride. The NYSDOH matrix for carbon tetrachloride suggests reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.

5.4 SV-4

SV-4 samples were collected from one location at an off-site residence. Based on the NYSDOH matrices, the identified COC for this sample location is carbon tetrachloride. The NYSDOH matrix for carbon tetrachloride suggests reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.

5.5 SV-5

SV-5 samples were collected from one location at an off-site residence. Based on the NYSDOH matrices, the identified COCs for this sample location are carbon tetrachloride and 1,1,1-TCA. The NYSDOH matrices for carbon tetrachloride and 1,1,1-TCA suggest reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.

5.6 Conclusions

The vapor samples collected from sub-slab, indoor air and outdoor ambient air at two off-site residential locations (SV-4 and SV-5), one off-site commercial structure (SV-3), and the on-site commercial structure (SV-1 and SV-2) indicate the presence of VOCs.

The sub-slab and indoor air results of the off-site residential locations (SV-4 and SV-5) and the off-site commercial structure (SV-3) do not suggest that vapor intrusion attributable to the site is affecting nearby structures. The results further indicate that soil vapor mitigation is not warranted at any of those locations at this time.

The sub-slab and indoor air results from the two sample locations in the on-site structure (SV-1 and SV-2) do suggest that vapor intrusion attributable to the groundwater contamination detected on-site is affecting air quality in the on-site structure. It is recommended that the vapor intrusion be mitigated in both the front and rear portions of the on-site building.

Appendices

Appendix A

Location Buffalo, NY Date 4/22/13

Project / Client Former Doro Cleaners
SVI Sampling

Heather Hallett Heather Hallett

12:30 Arrived at SV-4
Eric Rosenzweig + Heather Hallett, CDM Smith. Dave Locey, NYS DEC on-site
weather: sunny, 55°F light breeze from west
Private home, Anthony Schwab, owner let us in.

13:04 Colden SS sample 24-hr TO-15 Sample set up

13:05 SV-4 IA sample set up

13:06 SV-4 OA sample set up

14:10 Arrived at SV-5
Arlene Walkowski let us in (owner)
Owner asked to not use existing hole in foundation near hot water heater for sample. Got break-through ~35% during helium test
Re tested, good seal

13:38 SV-5 SS 24hr TO-15 sample set up

Heather Hallett

Location Buffalo, NY Date 4/22/13

Project / Client Former Doro Cleaners
SVI sampling

13:39 SV-5 IA sample set up

13:40 SV-5 OA sample set up

14:10 Arrived at SV-3, commercial building used by candy company for storage

14:38 SV-3 SS 24 hr regulator GL summa TO-15 started

14:39 SV-3 IA started

14:40 SV-3 OA started

15:00 SV-1, arrived former Doro Cleaners building, commercial, now used for storage. Basil Korbut and Jerry onsite

15:26 SV-2 SS1 24-hr regulator TO-15 GL summa started

15:35 SV-1 SS2 + DUP2 started

15:38 SV-1 IA2 + DUP1 started

15:45 SV-2 OA started

16:20 CDM Smith off-site, staying over night in Buffalo area
Dave Locey, NYS DEC off-site

Heather Hallett

Location Buffalo, NY Date 4/23/13

Project / Client Former Doro Cleaners
SVI Sampling

12:15	Heather Hallett + Eric Rosenzweig on-site at SV-4 weather: sunny 60°F light breeze from west, waiting for home owner to arrive. Dave Locey NYSDEC on-site
12:30	collected summa canisters at SV-4 .
13:10	left SV-4 , after patching hole with concrete
13:25	Arrived at SV-5 . to collect summa canisters
13:50	left SV-5 after patching hole
14:25	Arrived at SV-3 to collect summas and paten hole outdoor air sampe was never started yesterday, no out door air sample
15:28	Arrived at SV-1/SV-2 to collect summas and paten holes
15:54	Left SV-1/SV-2 and drove back to Latham, CDM smith offsite Dave Locey off-site
20:20	Heather Hallet + Eric Rosenzweig arrive at albany office and unload equipment. Heather Hallett

Location Date

Project / Client

Appendix B

Appendix C

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit: OU2

Building Code: Building Name:

Address: SV-5 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Contact Information

Preparer's Name: Heather Hallett and Eric Rosenzweig Phone No: (518) 782-4500

Preparer's Affiliation: Company Code:

Purpose of Investigation: Date of Inspection: Apr 22, 2013

Contact Name: Arlene Walkowski Affiliation: OWNER

Phone No: (716) 633-6062 Alt. Phone No: Email:

Number of Occupants (total): 1 Number of Children: 0

☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL

If Commercial or Industrial Facility, Select Operations:

If Residential Select Structure Type: RANCH HOME

Number of Floors: 1 Approx. Year Construction: 1957 ☒ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 5 Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: POURED CONCRETE

Foundation Floor Thickness: 6

Foundation Wall Thickness: 5

Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: Small floor drain, sump, hole near the back of the

☐ Wall penetrations? Describe Wall Penetrations:

Basement is: PARTIALLY FINISHED Basement is: DRY ☒ Sumps/Drains? Water In Sump?: YES

Describe Foundation Condition (cracks, seepage, etc.) : Small cracks

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS

Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: Apr 22, 2013

Bldg Address: SV-5 Apt/Suite No: _____

Bldg City/State/Zip: Cheektowaga NY, 14225

Make and Model of PID: Mini Rae 3000 Date of Calibration: Apr 22, 2013

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Rustoloeum wood finish		good		0	☐
basement	Grease		good		0	☐
basement	lock fluid		good		0	☐
basement	one lube		good		0	☐
basement	STP silicone spray		good		0	☐
basement	PB Blaster		good		0.2	☒
basement	spray paint		good		0	☐
basement	liquid wrench		good		**0**	☒
basement	CLR		good		0	☐
basement	Mineral spirit		good		1.7	☐
basement	spot remover		good		0	☐
basement	paints		good		0	☐
basement	bleach		good		0	☐
basement	ammonia		good		0	☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? Yes ☒ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit: OU2

Building Code: Building Name:

Address: SV-5 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: SELDOM Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: ☐ Is there smoking in the building?

☒ Air Fresheners? Description/Location of Air Freshener: spray/basement

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 55 °F

Current Building Use: RANCH HOME Barometric Pressure: NM in(hg)

Product Inventory Complete? Yes ☐ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: SV-5

Sampling Information

Sampler Name(s): HH ER

Sampler Company Code: _____

Sample Collection Date: Apr 22, 2013

Date Samples Sent To Lab: Apr 24, 2013

Sample Chain of Custody Number: NA

Outdoor Air Sample Location ID: SV-5

SUMMA Canister Information

Sample ID:	SV-5 SS	SV-5 IA	SV-5 OA		
Location Code:					
Location Type:	SUBSLAB	BASEMENT	OUTDOOR		
Canister ID:	1627	5300	1343		
Regulator ID:	3519	3521	3522		
Matrix:	Subslab Soil Vap	Indoor Air	Ambient Outd		
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA		

Sampling Area Info

Slab Thickness (inches):	7				
Sub-Slab Material:	DIRT				
Sub-Slab Moisture:	DAMP				
Seal Type:	CLAY				
Seal Adequate?:	☒	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/22/13 1338	4/22/13 1339	4/22/13 1340		
Vacuum Gauge Start:	-29	-29.5	-30		
Sample End Date/Time:	4/23/13 1338	4/23/13 1339	4/23/13 1340		
Vacuum Gauge End:	-7.5	-7	-6		
Sample Duration (hrs):	24	24	24		
Vacuum Gauge Unit:	in(hg)	in(hg)	in(hg)		

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☐	☐	☐
Purge PID Reading:	0.0				
Purge PID Unit:	ppm				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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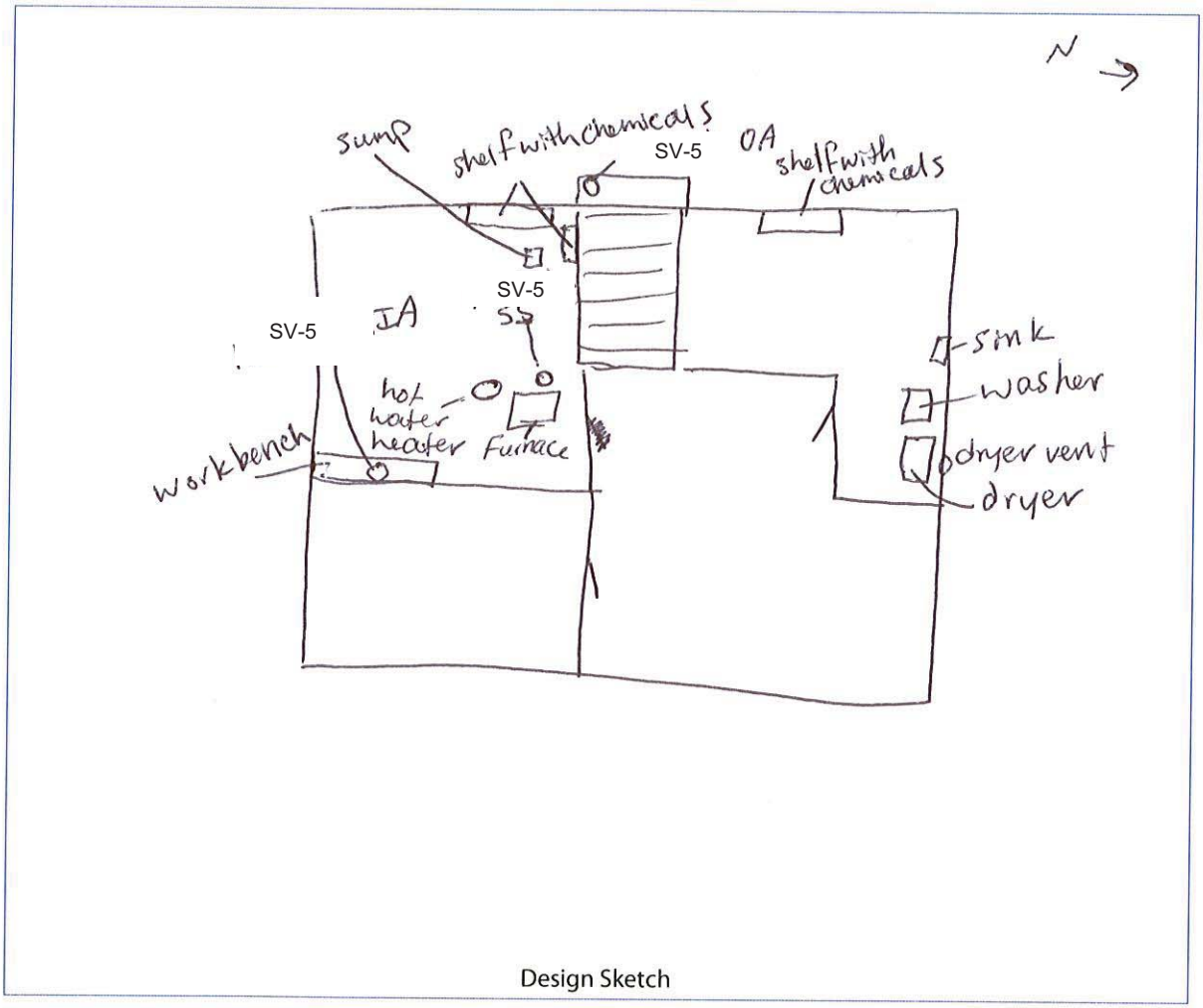
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level . The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaner Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-4 Apt/Suite No: NA

City: Cheektowaga State: NY Zip: 14225 County: Erie

Contact Information

Preparer's Name: Heather Hallett and Eric Rosenzweig Phone No: (518) 782-4500

Preparer's Affiliation: Company Code:

Purpose of Investigation: Date of Inspection: Apr 22, 2013

Contact Name: Anthony Schwab Affiliation: OWNER

Phone No: (716) 686-0573 Alt. Phone No: Email:

Number of Occupants (total): 1 Number of Children: 0

☐ Occupant Interviewed? ☐ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL

If Commercial or Industrial Facility, Select Operations:

If Residential Select Structure Type: RANCH HOME

Number of Floors: 1 Approx. Year Construction: 1956 ☒ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

na

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: POURED CONCRETE

Foundation Floor Thickness: 6

Foundation Wall Thickness: 6

Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: 4 INCH FLOOR DRAIN, FEW MINOR CRACKS

☒ Wall penetrations? Describe Wall Penetrations: in front of house in small crack in foundation wall

Basement is: UNFINISHED Basement is: DRY ☒ Sumps/Drains? Water In Sump?: YES

Describe Foundation Condition (cracks, seepage, etc.) : Several small cracks in floor

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS

Water Htr Vent Location: OUTSIDE Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: Apr 23, 2013

Bldg Address: SV-4 Apt/Suite No: NA

Bldg City/State/Zip: Cheektowaga NY, 14225

Make and Model of PID: Mini Rae 3000 Date of Calibration: Apr 22, 2013

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	paint		good		0	☐
Basement	Spray paint		good		0	☐
Basement	waterproofing spray for cloths		good		0	☐
Basement	Draino		good		0	☐
Basement	Lime-away		good		0	☐
Basement	Bleach		good		0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☒ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaner Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-4 Apt/Suite No: NA

City: Cheektowaga State: NY Zip: 14225 County: Erie

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: ☐ Is there smoking in the building?

☒ Air Fresheners? Description/Location of Air Freshener: kitchen Spray

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 55 °F

Current Building Use: RANCH HOME Barometric Pressure: in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: SV-4

Sampling Information

Sampler Name(s): HH ER

Sampler Company Code: _____

Sample Collection Date: Apr 22, 2013

Date Samples Sent To Lab: Apr 24, 2013

Sample Chain of Custody Number: NA

Outdoor Air Sample Location ID: SV-4 OA

SUMMA Canister Information

Sample ID:	SV-4 SS	SV-4 IA	SV-4 OA		
Location Code:					
Location Type:	SUBSLAB	BASEMENT	OUTDOOR		
Canister ID:	1805	1340	1649		
Regulator ID:	3518	3520	3517		
Matrix:	Subslab Soil Vap	Indoor Air	Ambient Outd		
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA		

Sampling Area Info

Slab Thickness (inches):	6				
Sub-Slab Material:	DIRT				
Sub-Slab Moisture:	DRY				
Seal Type:	WAX				
Seal Adequate?:	☐	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/22/13 1304	4/22/13 1305	4/22/13 1306		
Vacuum Gauge Start:	-30	-30	-30		
Sample End Date/Time:	4/23/13 1304	4/22/13 1305	4/22/13 1333		
Vacuum Gauge End:	-8.5	-6.5	-3		
Sample Duration (hrs):	24	24	23.4		
Vacuum Gauge Unit:	psi	in(hg)	in(hg)		

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☐	☐	☐
Purge PID Reading:	0.0				
Purge PID Unit:	ppm				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
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B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
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B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

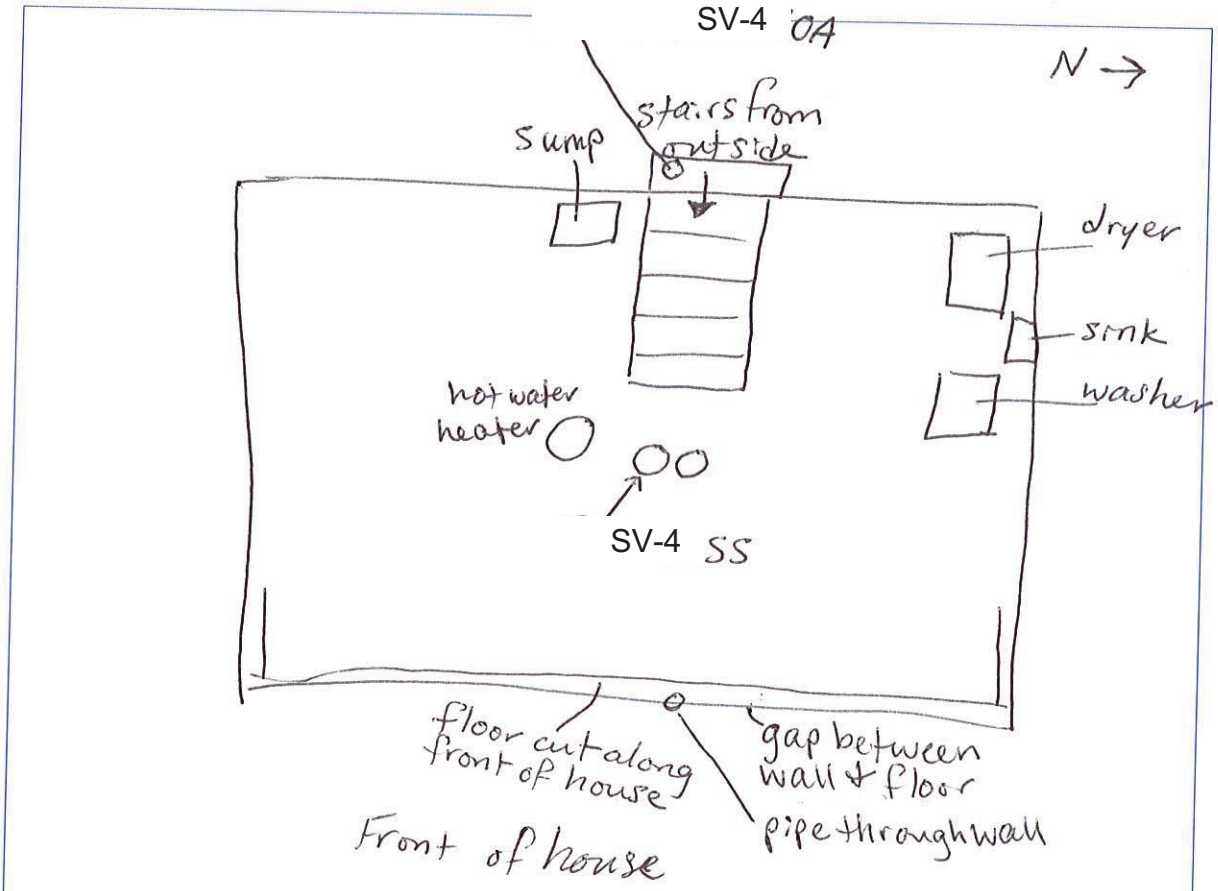
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level . The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-1/SV-2 1 of 2 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Contact Information

Preparer's Name: Heather Hallett and Eric Rosenzweig Phone No: (518)782-4500

Preparer's Affiliation: Company Code:

Purpose of Investigation: Date of Inspection:

Contact Name: Basil Korbut Affiliation: OWNER

Phone No: (716) 827-3770 Alt. Phone No: Email:

Number of Occupants (total): 2 Number of Children: 0

☐ Occupant Interviewed? ☐ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): MEDIUM

If Commercial or Industrial Facility, Select Operations: DRY CLEANER

If Residential Select Structure Type:

Number of Floors: 1 Approx. Year Construction: ☐ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Poor, leaky garage doors, open front door, garage door open before we arrived, closed during & sampling

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: CONCRETE BLOCK

Foundation Floor Thickness: 10

Foundation Wall Thickness:

Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: lrg cistern, trench, floor drains

☒ Wall penetrations? Describe Wall Penetrations: Several holes, wall fan on east wall

Basement is: Basement is: ☐ Sumps/Drains? Water In Sump?:

Describe Foundation Condition (cracks, seepage, etc.) : Some large cracks

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: NONE Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: NONE Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: Apr 22, 2013

Bldg Address: SV-1/SV-2 1 of 2 Apt/Suite No: _____

Bldg City/State/Zip: Cheektowaga NY, 14225

Make and Model of PID: Mini Rae 3000 Date of Calibration: Apr 22, 2013

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Back part of bu	Paints		good		0	☐
Back part of bu	Paint thinner		good		0	☐
Back part of bu	Mineral spirits		good		0	☐
Back part of bu	Rust oleum pint		good		0	☐
Back part of bu	Spray lubricant		good		0	☐
Back part of bu	steel polish		good		0	☐
Back part of bu	brake part cleaner		good		0	☐
Back part of bu	frosted glass spray		good		**0**	☐
Back part of bu	gasoline can		good		0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-1/SV-2 1 of 2 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: GAS ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☒ Recent Painting/Staining? Location of New Painting: Indoor walls recently painted

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 55 °F

Current Building Use: DRY CLEANER Barometric Pressure: nm in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: 3466 Genesee St 1 of 2 Cheektowaga, NY 14225

Sampling Information

Sampler Name(s): HH and ER

Sampler Company Code: _____

Sample Collection Date: Apr 22, 2013

Date Samples Sent To Lab: Apr 24, 2013

Sample Chain of Custody Number: NA

Outdoor Air Sample Location ID: 3466 Genesee

SUMMA Canister Information

Sample ID:	SV-2 SS1	SV-1 IA2	SV-1 SS2	SV-1 Dup 1	SV-2 OA
Location Code:					
Location Type:	SUBSLAB	FIRST FLOOR	SUBSLAB	FIRST FLOOR	OUTDOOR
Canister ID:	1271	1813	1458	1843	1105
Regulator ID:	3345	3516	3514	3515	3511
Matrix:	Subslab Soil Vap	Indoor Air	Subslab Soil	Indoor Air	Ambient Outd
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA

Sampling Area Info

Slab Thickness (inches):	10		6		
Sub-Slab Material:	DIRT		DIRT		
Sub-Slab Moisture:	DRY		DRY		
Seal Type:	WAX		WAX		
Seal Adequate?:	☒	☐	☒	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/22/13 1526	4/22/13 1538	4/22/13 1535	4/22/13 1535	4/22/13 1545
Vacuum Gauge Start:	-28.5	-29.5	-29	-29	-28
Sample End Date/Time:	4/23/13 1526	4/23/13 1538	4/23/13 1535	4/23/13 1535	4/23/13 1545
Vacuum Gauge End:	-7	-7	-5	-8	-4
Sample Duration (hrs):	24	24	24	24	24
Vacuum Gauge Unit:	in(hg)	in(hg)	in(hg)	in(hg)	in(hg)

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☒	☐	☐
Purge PID Reading:	0.4		1.2		
Purge PID Unit:	ppm		ppm		
Tracer Test Pass:	☒	☐	☒	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

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S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-1/SV-2 2 of 2 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Contact Information

Preparer's Name: Heather Hallett and Eric Rosenzweig Phone No: (518)782-4500

Preparer's Affiliation: Company Code:

Purpose of Investigation: Date of Inspection: Apr 22, 2013

Contact Name: Basil Korbut Affiliation: OWNER

Phone No: (716) 827-3770 Alt. Phone No: Email:

Number of Occupants (total): 2 Number of Children: 0

☐ Occupant Interviewed? ☐ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): MEDIUM

If Commercial or Industrial Facility, Select Operations: DRY CLEANER

If Residential Select Structure Type:

Number of Floors: 1 Approx. Year Construction: ☐ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Poor, leaky garage doors, open front door, garage door open before we arrived, closed during & sampling

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: CONCRETE BLOCK

Foundation Floor Thickness: 10

Foundation Wall Thickness:

Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: lrg cistern, trench, floor drains

☒ Wall penetrations? Describe Wall Penetrations: Several holes, wall fan on east wall

Basement is: Basement is: ☐ Sumps/Drains? Water In Sump?:

Describe Foundation Condition (cracks, seepage, etc.) : Some large cracks

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: NONE Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: NONE Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: Apr 22, 2013

Bldg Address: SV-1/SV-2 2 of 2 Apt/Suite No: _____

Bldg City/State/Zip: Cheektowaga NY, 14225

Make and Model of PID: Mini Rae 3000 Date of Calibration: Apr 22, 2013

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Back part of bu	Paints		good		0	☐
Back part of bu	Paint thinner		good		0	☐
Back part of bu	Mineral spirits		good		0	☐
Back part of bu	Rust oleum pint		good		0	☐
Back part of bu	Spray lubricant		good		0	☐
Back part of bu	steel polish		good		0	☐
Back part of bu	brake part cleaner		good		0	☐
Back part of bu	frosted glass spray		good		**0**	☐
Back part of bu	gasoline can		good		0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry Cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-1/SV-2 2 of 2 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: GAS ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☒ Recent Painting/Staining? Location of New Painting: Indoor walls recently painted

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 55 °F

Current Building Use: DRY CLEANER Barometric Pressure: nm in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: 3466 Genesee St 2 of 2 Cheektowaga, NY 14225

Sampling Information

Sampler Name(s): HH and ER

Sampler Company Code: _____

Sample Collection Date: Apr 22, 2013

Date Samples Sent To Lab: Apr 24, 2013

Sample Chain of Custody Number: _____

Outdoor Air Sample Location ID: 3466 Genesee

SUMMA Canister Information

Sample ID:	SV-1 Dup 2				
Location Code:					
Location Type:	SUBSLAB				
Canister ID:	1503				
Regulator ID:	3513				
Matrix:	Subslab Soil Vap				
Sampling Method:	SUMMA AIR SAMPLI				

Sampling Area Info

Slab Thickness (inches):	6				
Sub-Slab Material:	DIRT				
Sub-Slab Moisture:	DRY				
Seal Type:	WAX				
Seal Adequate?:	☒	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/22/13 1533				
Vacuum Gauge Start:	-27				
Sample End Date/Time:	4/23/13 1533				
Vacuum Gauge End:	-5				
Sample Duration (hrs):	24				
Vacuum Gauge Unit:	in(hg)				

Sample QA/QC Readings

Vapor Port Purge:	☐	☐	☐	☐	☐
Purge PID Reading:	1.2				
Purge PID Unit:	ppm				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
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Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

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W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
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Design Sketch

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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
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S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

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Design Sketch

Design Sketch Guidelines and Recommended Symbology

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@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
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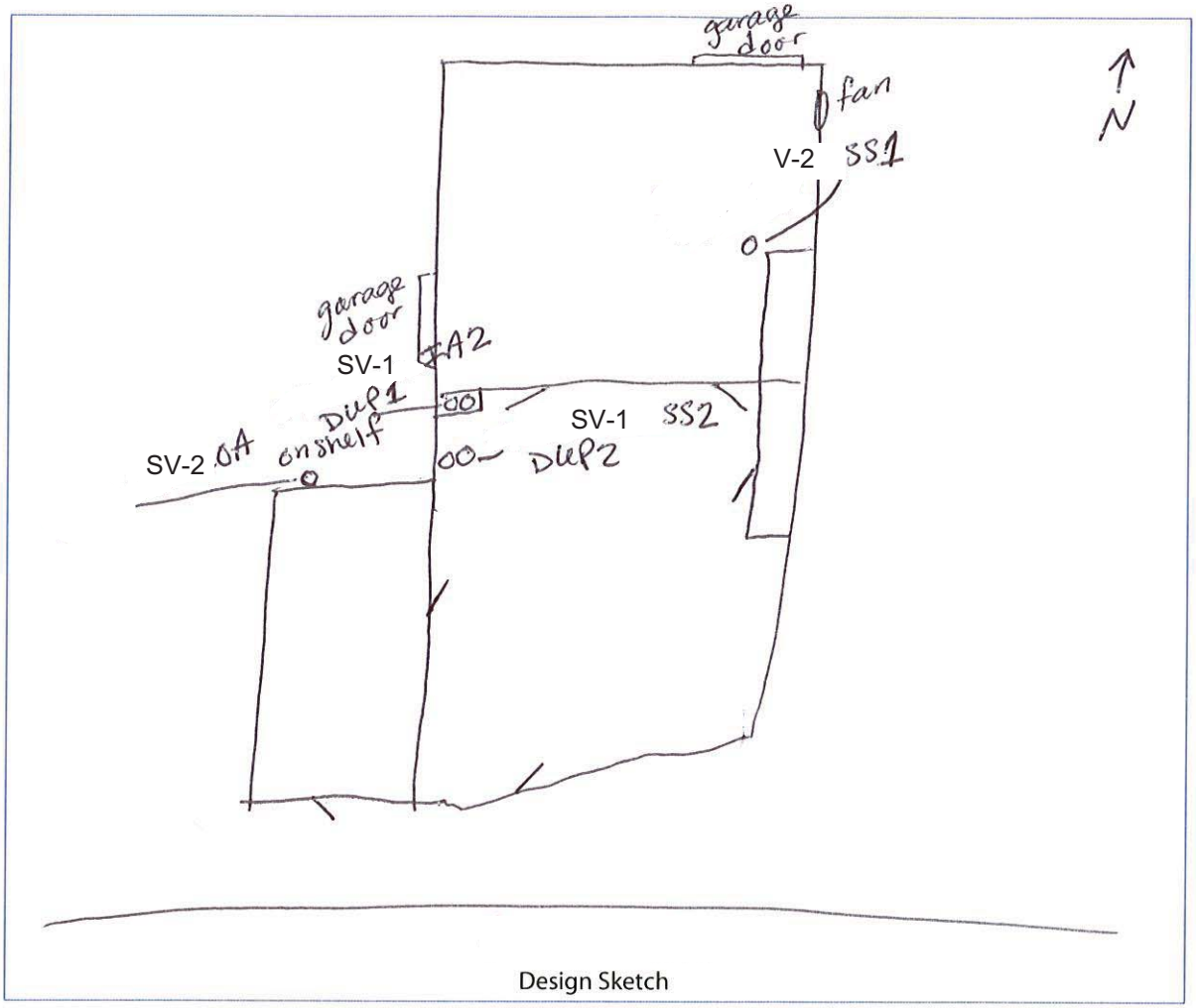
Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-3 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Contact Information

Preparer's Name: Heather Hallett and Eric Rosenzweig Phone No: (518) 782-4500

Preparer's Affiliation: Company Code:

Purpose of Investigation: Date of Inspection: Apr 22, 2013

Contact Name: Beth DeLillis Affiliation: MANAGER

Phone No: (716) 995-9121 Alt. Phone No: Email:

Number of Occupants (total): Number of Children:

☒ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?

Owner Name (if different): Phillip Terranova, 3500 Genesee Associates Owner Phone: (716) 634-4545

Owner Mailing Address: 35 Genesee St, Cheektowaga, NY 14225

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): LARGE

If Commercial or Industrial Facility, Select Operations: FOOD SERVICE

If Residential Select Structure Type:

Number of Floors: 1 Approx. Year Construction: ☒ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: NO BASEMENT/SLAB Foundation Depth (bgs): Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material:

Foundation Floor Thickness: 6

Foundation Wall Thickness: 5

Unit: INCHES

☐ Floor penetrations? Describe Floor Penetrations:

☐ Wall penetrations? Describe Wall Penetrations:

Basement is: Basement is: ☐ Sumps/Drains? Water In Sump?:

Describe Foundation Condition (cracks, seepage, etc.) :

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type:

Water Htr Vent Location: OUTSIDE Dryer Vent Location:

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: Apr 22, 2013

Bldg Address: SV-3 Apt/Suite No: _____

Bldg City/State/Zip: Cheektowaga NY, 14225

Make and Model of PID: Mini Rae 3000 Date of Calibration: Apr 22, 2013

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
West wall	Air freshener (Automatic)		good		0.0	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Doro Dry cleaners Site Code: 915238 Operable Unit:

Building Code: Building Name:

Address: SV-3 Apt/Suite No:

City: Cheektowaga State: NY Zip: 14225 County: Erie

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: OCCASIONALLY Floor Material: LINOLEUM/VINYL

☒ Inhabited? ☒ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☒ Recent Pesticide/Rodenticide? Description of Last Use: Pesticide man comes with traps. does not use

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 60 °F

Current Building Use: FOOD SERVICE Barometric Pressure: in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: SV-3

Sampling Information

Sampler Name(s): HH & ER

Sampler Company Code: _____

Sample Collection Date: Apr 22, 2013

Date Samples Sent To Lab: Apr 24, 2013

Sample Chain of Custody Number: _____

Outdoor Air Sample Location ID: SV-3 OA

SUMMA Canister Information

Sample ID:	SV-3 SS	SV-3 IA			
Location Code:					
Location Type:	SUBSLAB	FIRST FLOOR			
Canister ID:	1258	1312			
Regulator ID:	3524	3346			
Matrix:	Subslab Soil Vap	Indoor Air			
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA			

Sampling Area Info

Slab Thickness (inches):	6				
Sub-Slab Material:	DIRT				
Sub-Slab Moisture:	DRY				
Seal Type:	CLAY				
Seal Adequate?:	☒	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	4/22/13 1438	4/22/13 1439			
Vacuum Gauge Start:	-29	-30			
Sample End Date/Time:	4/23/13 1438	4/23/13 1439			
Vacuum Gauge End:	-7	-7			
Sample Duration (hrs):	24	24			
Vacuum Gauge Unit:	in(hg)	in(hg)			

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☐	☐	☐
Purge PID Reading:	0.0				
Purge PID Unit:	ppm				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
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Clear Image

Design Sketch

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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

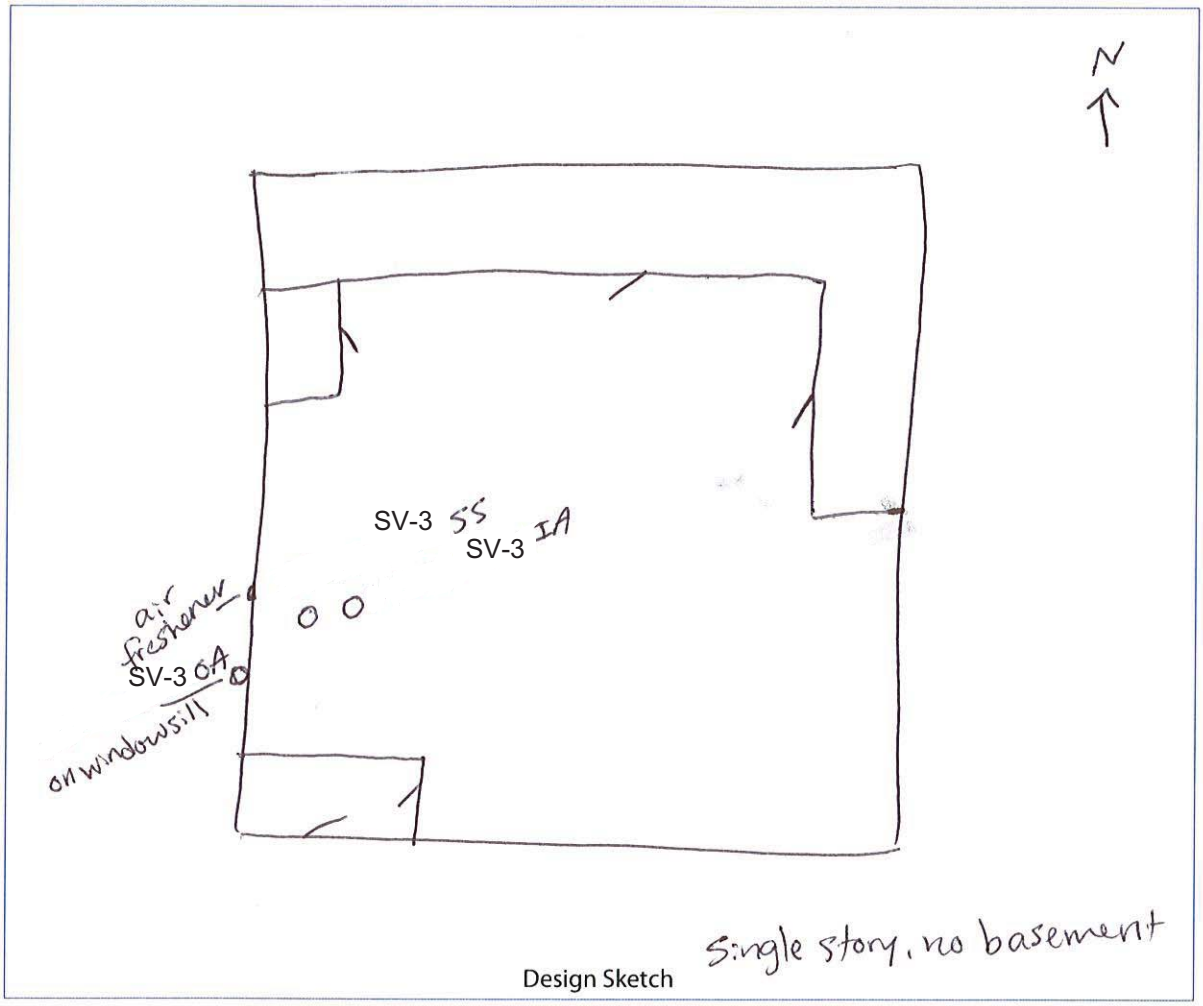
B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level . The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	######	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Appendix D

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 3, 2013

Heather Hallett
CDM Smith, Inc. - NY
11 British American Boulevard, Suite 200
Latham, NY 12110

Project Location: Former Doro Cleaners, Buffalo
Client Job Number:
Project Number: 0897-915238 94461
Laboratory Work Order Number: 13D1071

Enclosed are results of analyses for samples received by the laboratory on April 26, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paula E. Blakeborough
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CDM Smith, Inc. - NY
11 British American Boulevard, Suite 200
Latham, NY 12110
ATTN: Heather Hallett

REPORT DATE: 5/3/2013

PURCHASE ORDER NUMBER: D-006131-2

PROJECT NUMBER: 0897-915238 94461

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13D1071

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Doro Cleaners, Buffalo

FIELD SAMPLE #		LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-4	OA	13D1071-01	Ambient Air		EPA TO-15	
SV-4	SS	13D1071-02	Sub Slab		EPA TO-15	
SV-4	IA	13D1071-03	Indoor air		EPA TO-15	
SV-5	SS	13D1071-04	Sub Slab		EPA TO-15	
SV-5	IA	13D1071-05	Indoor air		EPA TO-15	
SV-5	OA	13D1071-06	Ambient Air		EPA TO-15	
SV-3	SS	13D1071-07	Sub Slab		EPA TO-15	
SV-3	IA	13D1071-08	Indoor air		EPA TO-15	
SV-2	SS1	13D1071-09	Sub Slab		EPA TO-15	
SV-1	IA2	13D1071-10	Indoor air		EPA TO-15	
SV-1	SS2	13D1071-11	Sub Slab		EPA TO-15	
DUP 1		13D1071-12	Air		EPA TO-15	
SV-2	OA	13D1071-13	Ambient Air		EPA TO-15	
DUP 2		13D1071-14	Air		EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane

B071996-BS1

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

4-Methyl-2-pentanone (MIBK), Acetone, Isopropanol

13D1071-02[SV-4 SS], 13D1071-03[SV-4 IA], 13D1071-04[SV-5 SS], 13D1071-05[SV-5 IA], 13D1071-07[SV-3 SS], 13D1071-10[SV-1 IA2], 13D1071-12[DUP 1], 13D1071-14[DUP 2], B071996-BS1, B071996-DUP1, 13D1071-01[SV-4 OA], 13D1071-06[SV-5 OA], 13D1071-08[SV-3 IA], 13D1071-09[SV-2 SS1], 13D1071-11[SV-1 SS2], 13D1071-13[SV-2 OA], 13D1071-05RE1[SV-5 IA]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)

13D1071-01[SV-4 OA], 13D1071-02[SV-4 SS], 13D1071-03[SV-4 IA], 13D1071-04[SV-5 SS], 13D1071-05[SV-5 IA], 13D1071-06[SV-5 OA], 13D1071-07[SV-3 SS], 13D1071-08[SV-3 IA], 13D1071-09[SV-2 SS1], 13D1071-10[SV-1 IA2], 13D1071-11[SV-1 SS2], 13D1071-12[DUP 1], 13D1071-13[SV-2 OA], 13D1071-14[DUP 2], B071996-BLK1, B071996-BS1, B071996-DUP1, S004129-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **OA**
Sample ID: 13D1071-01
Sample Matrix: Ambient Air
Sampled: 4/23/2013 12:33

Sample Description/Location:
Sub Description/Location:
Canister ID: 1649
Canister Size: 6 liter
Flow Controller ID: 3520
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -4.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	3.1	1.4	L-05	7.4	3.3	0.702	4/28/13 23:44	TPH
Benzene	0.13	0.035		0.42	0.11	0.702	4/28/13 23:44	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/28/13 23:44	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/28/13 23:44	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/28/13 23:44	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/28/13 23:44	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/28/13 23:44	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/28/13 23:44	TPH
Carbon Tetrachloride	0.074	0.035		0.47	0.22	0.702	4/28/13 23:44	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/28/13 23:44	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/28/13 23:44	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/28/13 23:44	TPH
Chloromethane	0.63	0.070		1.3	0.14	0.702	4/28/13 23:44	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/28/13 23:44	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/28/13 23:44	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/28/13 23:44	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/28/13 23:44	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/28/13 23:44	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/28/13 23:44	TPH
Dichlorodifluoromethane (Freon 12)	0.29	0.035		1.4	0.17	0.702	4/28/13 23:44	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/28/13 23:44	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/28/13 23:44	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/28/13 23:44	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/28/13 23:44	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/28/13 23:44	TPH
Ethanol	2.4	1.4		4.5	2.6	0.702	4/28/13 23:44	TPH
Ethyl Acetate	2.4	0.035		8.7	0.13	0.702	4/28/13 23:44	TPH
Ethylbenzene	ND	0.035		ND	0.15	0.702	4/28/13 23:44	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/28/13 23:44	TPH
Heptane	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/28/13 23:44	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **OA**
Sample ID: 13D1071-01
Sample Matrix: Ambient Air
Sampled: 4/23/2013 12:33

Sample Description/Location:
Sub Description/Location:
Canister ID: 1649
Canister Size: 6 liter
Flow Controller ID: 3520
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -4.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	1.4		ND	4.9	0.702	4/28/13 23:44	TPH
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
Isopropanol	ND	1.4		ND	3.4	0.702	4/28/13 23:44	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/28/13 23:44	TPH
Methylene Chloride	0.48	0.35		1.7	1.2	0.702	4/28/13 23:44	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	4/28/13 23:44	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	4/28/13 23:44	TPH
Propene	ND	1.4		ND	2.4	0.702	4/28/13 23:44	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/28/13 23:44	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/28/13 23:44	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	4/28/13 23:44	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/28/13 23:44	TPH
Toluene	0.46	0.035		1.8	0.13	0.702	4/28/13 23:44	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/28/13 23:44	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/28/13 23:44	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/28/13 23:44	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/28/13 23:44	TPH
Trichlorofluoromethane (Freon 11)	0.16	0.035		0.93	0.20	0.702	4/28/13 23:44	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.054	0.035	V-05	0.41	0.27	0.702	4/28/13 23:44	TPH
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/28/13 23:44	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/28/13 23:44	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/28/13 23:44	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/28/13 23:44	TPH
m&p-Xylene	0.073	0.070		0.32	0.30	0.702	4/28/13 23:44	TPH
o-Xylene	ND	0.035		ND	0.15	0.702	4/28/13 23:44	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.7	70-130	4/28/13 23:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **SS**
Sample ID: 13D1071-02
Sample Matrix: Sub Slab
Sampled: 4/23/2013 13:04

Sample Description/Location:
Sub Description/Location:
Canister ID: 1805
Canister Size: 6 liter
Flow Controller ID: 3518
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8.5
Receipt Vacuum(in Hg): -9.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	15	1.4	L-05	36	3.3	0.702	4/29/13 9:29	TPH
Benzene	0.20	0.035		0.64	0.11	0.702	4/29/13 9:29	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 9:29	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 9:29	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 9:29	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 9:29	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 9:29	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 9:29	TPH
Carbon Tetrachloride	0.081	0.035		0.51	0.22	0.702	4/29/13 9:29	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 9:29	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 9:29	TPH
Chloroform	0.060	0.035		0.29	0.17	0.702	4/29/13 9:29	TPH
Chloromethane	0.75	0.070		1.5	0.14	0.702	4/29/13 9:29	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 9:29	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 9:29	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 9:29	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 9:29	TPH
1,3-Dichlorobenzene	0.060	0.035		0.36	0.21	0.702	4/29/13 9:29	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 9:29	TPH
Dichlorodifluoromethane (Freon 12)	1.0	0.035		5.1	0.17	0.702	4/29/13 9:29	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 9:29	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 9:29	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 9:29	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 9:29	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 9:29	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 9:29	TPH
Ethanol	110	40		210	75	20	4/29/13 14:44	TPH
Ethyl Acetate	4.0	0.035		14	0.13	0.702	4/29/13 9:29	TPH
Ethylbenzene	0.32	0.035		1.4	0.15	0.702	4/29/13 9:29	TPH
4-Ethyltoluene	0.16	0.035		0.78	0.17	0.702	4/29/13 9:29	TPH
Heptane	0.15	0.035		0.63	0.14	0.702	4/29/13 9:29	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 9:29	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **SS**
Sample ID: 13D1071-02
Sample Matrix: Sub Slab
Sampled: 4/23/2013 13:04

Sample Description/Location:
Sub Description/Location:
Canister ID: 1805
Canister Size: 6 liter
Flow Controller ID: 3518
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8.5
Receipt Vacuum(in Hg): -9.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 9:29	TPH
2-Hexanone (MBK)	0.15	0.035		0.62	0.14	0.702	4/29/13 9:29	TPH
Isopropanol	5.8	1.4	L-05	14	3.4	0.702	4/29/13 9:29	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 9:29	TPH
Methylene Chloride	1.3	0.35		4.5	1.2	0.702	4/29/13 9:29	TPH
4-Methyl-2-pentanone (MIBK)	0.16	0.035	L-05	0.66	0.14	0.702	4/29/13 9:29	TPH
Naphthalene	0.11	0.035		0.58	0.18	0.702	4/29/13 9:29	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 9:29	TPH
Styrene	0.060	0.035		0.25	0.15	0.702	4/29/13 9:29	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 9:29	TPH
Tetrachloroethylene	0.11	0.035		0.74	0.24	0.702	4/29/13 9:29	TPH
Tetrahydrofuran	0.039	0.035		0.12	0.10	0.702	4/29/13 9:29	TPH
Toluene	1.5	0.035		5.8	0.13	0.702	4/29/13 9:29	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 9:29	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 9:29	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 9:29	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 9:29	TPH
Trichlorofluoromethane (Freon 11)	0.60	0.035		3.4	0.20	0.702	4/29/13 9:29	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.085	0.035	V-05	0.65	0.27	0.702	4/29/13 9:29	TPH
1,2,4-Trimethylbenzene	0.76	0.035		3.7	0.17	0.702	4/29/13 9:29	TPH
1,3,5-Trimethylbenzene	0.20	0.035		0.99	0.17	0.702	4/29/13 9:29	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 9:29	TPH
Vinyl Chloride	0.044	0.035		0.11	0.090	0.702	4/29/13 9:29	TPH
m&p-Xylene	1.0	0.070		4.4	0.30	0.702	4/29/13 9:29	TPH
o-Xylene	0.44	0.035		1.9	0.15	0.702	4/29/13 9:29	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.8	70-130	4/29/13 14:44
4-Bromofluorobenzene (1)	94.8	70-130	4/29/13 9:29

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **IA**
Sample ID: 13D1071-03
Sample Matrix: Indoor air
Sampled: 4/23/2013 13:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1340
Canister Size: 6 liter
Flow Controller ID: 3517
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6.5
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	9.8	1.4	L-05	23	3.3	0.702	4/29/13 0:29	TPH
Benzene	0.12	0.035		0.38	0.11	0.702	4/29/13 0:29	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 0:29	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 0:29	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 0:29	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 0:29	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 0:29	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 0:29	TPH
Carbon Tetrachloride	0.074	0.035		0.46	0.22	0.702	4/29/13 0:29	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 0:29	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 0:29	TPH
Chloroform	0.058	0.035		0.28	0.17	0.702	4/29/13 0:29	TPH
Chloromethane	0.75	0.070		1.5	0.14	0.702	4/29/13 0:29	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 0:29	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 0:29	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 0:29	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 0:29	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 0:29	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 0:29	TPH
Dichlorodifluoromethane (Freon 12)	1.2	0.035		6.1	0.17	0.702	4/29/13 0:29	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 0:29	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 0:29	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 0:29	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 0:29	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 0:29	TPH
Ethanol	120	40		220	75	20	4/29/13 12:51	TPH
Ethyl Acetate	12	0.035		44	0.13	0.702	4/29/13 0:29	TPH
Ethylbenzene	0.071	0.035		0.31	0.15	0.702	4/29/13 0:29	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/29/13 0:29	TPH
Heptane	ND	0.035		ND	0.14	0.702	4/29/13 0:29	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 0:29	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-4 **IA**
Sample ID: 13D1071-03
Sample Matrix: Indoor air
Sampled: 4/23/2013 13:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1340
Canister Size: 6 liter
Flow Controller ID: 3517
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6.5
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 0:29	TPH
2-Hexanone (MBK)	0.11	0.035		0.45	0.14	0.702	4/29/13 0:29	TPH
Isopropanol	11	1.4	L-05	27	3.4	0.702	4/29/13 0:29	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 0:29	TPH
Methylene Chloride	0.73	0.35		2.5	1.2	0.702	4/29/13 0:29	TPH
4-Methyl-2-pentanone (MIBK)	0.12	0.035	L-05	0.48	0.14	0.702	4/29/13 0:29	TPH
Naphthalene	0.044	0.035		0.23	0.18	0.702	4/29/13 0:29	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 0:29	TPH
Styrene	0.043	0.035		0.18	0.15	0.702	4/29/13 0:29	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 0:29	TPH
Tetrachloroethylene	0.055	0.035		0.38	0.24	0.702	4/29/13 0:29	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 0:29	TPH
Toluene	0.48	0.035		1.8	0.13	0.702	4/29/13 0:29	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 0:29	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 0:29	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 0:29	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 0:29	TPH
Trichlorofluoromethane (Freon 11)	0.54	0.035		3.1	0.20	0.702	4/29/13 0:29	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.035	V-05	0.46	0.27	0.702	4/29/13 0:29	TPH
1,2,4-Trimethylbenzene	0.081	0.035		0.40	0.17	0.702	4/29/13 0:29	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 0:29	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 0:29	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/29/13 0:29	TPH
m&p-Xylene	0.18	0.070		0.76	0.30	0.702	4/29/13 0:29	TPH
o-Xylene	0.065	0.035		0.28	0.15	0.702	4/29/13 0:29	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	86.7	70-130	4/29/13 12:51
4-Bromofluorobenzene (1)	93.3	70-130	4/29/13 0:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **SS**
Sample ID: 13D1071-04
Sample Matrix: Sub Slab
Sampled: 4/23/2013 13:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1627
Canister Size: 6 liter
Flow Controller ID: 3519
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	12	1.4	L-05	29	3.3	0.702	4/29/13 8:44	TPH
Benzene	0.18	0.035		0.58	0.11	0.702	4/29/13 8:44	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 8:44	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 8:44	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 8:44	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 8:44	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 8:44	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 8:44	TPH
Carbon Tetrachloride	0.072	0.035		0.45	0.22	0.702	4/29/13 8:44	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 8:44	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 8:44	TPH
Chloroform	0.084	0.035		0.41	0.17	0.702	4/29/13 8:44	TPH
Chloromethane	0.63	0.070		1.3	0.14	0.702	4/29/13 8:44	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 8:44	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 8:44	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 8:44	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 8:44	TPH
1,3-Dichlorobenzene	0.051	0.035		0.31	0.21	0.702	4/29/13 8:44	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 8:44	TPH
Dichlorodifluoromethane (Freon 12)	0.29	0.035		1.4	0.17	0.702	4/29/13 8:44	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 8:44	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 8:44	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 8:44	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 8:44	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 8:44	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 8:44	TPH
Ethanol	190	40		360	75	20	4/27/13 15:23	TPH
Ethyl Acetate	0.46	0.035		1.7	0.13	0.702	4/29/13 8:44	TPH
Ethylbenzene	0.22	0.035		0.96	0.15	0.702	4/29/13 8:44	TPH
4-Ethyltoluene	0.12	0.035		0.58	0.17	0.702	4/29/13 8:44	TPH
Heptane	0.16	0.035		0.64	0.14	0.702	4/29/13 8:44	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 8:44	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **SS**
Sample ID: 13D1071-04
Sample Matrix: Sub Slab
Sampled: 4/23/2013 13:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1627
Canister Size: 6 liter
Flow Controller ID: 3519
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -7.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 8:44	TPH
2-Hexanone (MBK)	0.067	0.035		0.28	0.14	0.702	4/29/13 8:44	TPH
Isopropanol	10	1.4	L-05	25	3.4	0.702	4/29/13 8:44	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 8:44	TPH
Methylene Chloride	1.4	0.35		4.9	1.2	0.702	4/29/13 8:44	TPH
4-Methyl-2-pentanone (MIBK)	0.098	0.035	L-05	0.40	0.14	0.702	4/29/13 8:44	TPH
Naphthalene	0.094	0.035		0.49	0.18	0.702	4/29/13 8:44	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 8:44	TPH
Styrene	0.088	0.035		0.38	0.15	0.702	4/29/13 8:44	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 8:44	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	4/29/13 8:44	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 8:44	TPH
Toluene	1.9	0.035		7.1	0.13	0.702	4/29/13 8:44	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 8:44	TPH
1,1,1-Trichloroethane	1.0	0.035		5.4	0.19	0.702	4/29/13 8:44	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 8:44	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 8:44	TPH
Trichlorofluoromethane (Freon 11)	0.25	0.035		1.4	0.20	0.702	4/29/13 8:44	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.035	V-05	0.65	0.27	0.702	4/29/13 8:44	TPH
1,2,4-Trimethylbenzene	0.57	0.035		2.8	0.17	0.702	4/29/13 8:44	TPH
1,3,5-Trimethylbenzene	0.15	0.035		0.75	0.17	0.702	4/29/13 8:44	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 8:44	TPH
Vinyl Chloride	0.078	0.035		0.20	0.090	0.702	4/29/13 8:44	TPH
m&p-Xylene	0.69	0.070		3.0	0.30	0.702	4/29/13 8:44	TPH
o-Xylene	0.31	0.035		1.4	0.15	0.702	4/29/13 8:44	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.0	70-130	4/27/13 15:23
4-Bromofluorobenzene (1)	94.9	70-130	4/29/13 8:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **IA**
Sample ID: 13D1071-05
Sample Matrix: Indoor air
Sampled: 4/23/2013 13:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1856
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	16	1.4	L-05	37	3.3	0.702	4/29/13 1:15	TPH
Benzene	0.14	0.035		0.44	0.11	0.702	4/29/13 1:15	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 1:15	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 1:15	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 1:15	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 1:15	TPH
2-Butanone (MEK)	2.1	1.4		6.1	4.1	0.702	4/29/13 1:15	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 1:15	TPH
Carbon Tetrachloride	0.073	0.035		0.46	0.22	0.702	4/29/13 1:15	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 1:15	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 1:15	TPH
Chloroform	0.078	0.035		0.38	0.17	0.702	4/29/13 1:15	TPH
Chloromethane	0.64	0.070		1.3	0.14	0.702	4/29/13 1:15	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 1:15	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 1:15	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 1:15	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 1:15	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 1:15	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 1:15	TPH
Dichlorodifluoromethane (Freon 12)	0.25	0.035		1.2	0.17	0.702	4/29/13 1:15	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 1:15	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 1:15	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 1:15	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 1:15	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 1:15	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 1:15	TPH
Ethanol	260	40		500	75	20	4/29/13 13:28	TPH
Ethyl Acetate	0.76	0.035		2.7	0.13	0.702	4/29/13 1:15	TPH
Ethylbenzene	0.070	0.035		0.30	0.15	0.702	4/29/13 1:15	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/29/13 1:15	TPH
Heptane	0.12	0.035		0.51	0.14	0.702	4/29/13 1:15	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 1:15	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **IA**
Sample ID: 13D1071-05
Sample Matrix: Indoor air
Sampled: 4/23/2013 13:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1856
Canister Size: 6 liter
Flow Controller ID: 3521
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 1:15	TPH
2-Hexanone (MBK)	0.19	0.035		0.78	0.14	0.702	4/29/13 1:15	TPH
Isopropanol	31	20	L-05	76	49	20	4/29/13 13:28	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 1:15	TPH
Methylene Chloride	1.0	0.35		3.6	1.2	0.702	4/29/13 1:15	TPH
4-Methyl-2-pentanone (MIBK)	0.11	0.035	L-05	0.44	0.14	0.702	4/29/13 1:15	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	4/29/13 1:15	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 1:15	TPH
Styrene	0.098	0.035		0.42	0.15	0.702	4/29/13 1:15	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 1:15	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	4/29/13 1:15	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 1:15	TPH
Toluene	1.3	0.035		4.8	0.13	0.702	4/29/13 1:15	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 1:15	TPH
1,1,1-Trichloroethane	1.3	0.035		7.1	0.19	0.702	4/29/13 1:15	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 1:15	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 1:15	TPH
Trichlorofluoromethane (Freon 11)	0.22	0.035		1.2	0.20	0.702	4/29/13 1:15	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.035	V-05	0.52	0.27	0.702	4/29/13 1:15	TPH
1,2,4-Trimethylbenzene	0.093	0.035		0.46	0.17	0.702	4/29/13 1:15	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 1:15	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 1:15	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/29/13 1:15	TPH
m&p-Xylene	0.17	0.070		0.73	0.30	0.702	4/29/13 1:15	TPH
o-Xylene	0.060	0.035		0.26	0.15	0.702	4/29/13 1:15	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	88.3	70-130	4/29/13 13:28
4-Bromofluorobenzene (1)	94.5	70-130	4/29/13 1:15

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **OA**
Sample ID: 13D1071-06
Sample Matrix: Ambient Air
Sampled: 4/23/2013 13:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1343
Canister Size: 6 liter
Flow Controller ID: 3522
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	4.0	1.4	L-05	9.5	3.3	0.702	4/29/13 2:00	TPH
Benzene	0.11	0.035		0.36	0.11	0.702	4/29/13 2:00	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 2:00	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 2:00	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 2:00	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 2:00	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 2:00	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 2:00	TPH
Carbon Tetrachloride	0.066	0.035		0.41	0.22	0.702	4/29/13 2:00	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 2:00	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 2:00	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 2:00	TPH
Chloromethane	0.66	0.070		1.4	0.14	0.702	4/29/13 2:00	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 2:00	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 2:00	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 2:00	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:00	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:00	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:00	TPH
Dichlorodifluoromethane (Freon 12)	0.28	0.035		1.4	0.17	0.702	4/29/13 2:00	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 2:00	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 2:00	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 2:00	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 2:00	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 2:00	TPH
Ethanol	4.4	1.4		8.4	2.6	0.702	4/29/13 2:00	TPH
Ethyl Acetate	0.46	0.035		1.7	0.13	0.702	4/29/13 2:00	TPH
Ethylbenzene	ND	0.035		ND	0.15	0.702	4/29/13 2:00	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/29/13 2:00	TPH
Heptane	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 2:00	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-5 **OA**
Sample ID: 13D1071-06
Sample Matrix: Ambient Air
Sampled: 4/23/2013 13:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1343
Canister Size: 6 liter
Flow Controller ID: 3522
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 2:00	TPH
2-Hexanone (MBK)	0.063	0.035		0.26	0.14	0.702	4/29/13 2:00	TPH
Isopropanol	ND	1.4		ND	3.4	0.702	4/29/13 2:00	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 2:00	TPH
Methylene Chloride	ND	0.35		ND	1.2	0.702	4/29/13 2:00	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	4/29/13 2:00	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	4/29/13 2:00	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 2:00	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 2:00	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 2:00	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	4/29/13 2:00	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 2:00	TPH
Toluene	0.15	0.035		0.58	0.13	0.702	4/29/13 2:00	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 2:00	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 2:00	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 2:00	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 2:00	TPH
Trichlorofluoromethane (Freon 11)	0.17	0.035		0.98	0.20	0.702	4/29/13 2:00	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.059	0.035	V-05	0.45	0.27	0.702	4/29/13 2:00	TPH
1,2,4-Trimethylbenzene	0.044	0.035		0.22	0.17	0.702	4/29/13 2:00	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 2:00	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 2:00	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/29/13 2:00	TPH
m&p-Xylene	ND	0.070		ND	0.30	0.702	4/29/13 2:00	TPH
o-Xylene	ND	0.035		ND	0.15	0.702	4/29/13 2:00	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.7	70-130	4/29/13 2:00

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-3 **SS**
Sample ID: 13D1071-07
Sample Matrix: Sub Slab
Sampled: 4/23/2013 14:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1258
Canister Size: 6 liter
Flow Controller ID: 3524
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	17	1.4	L-05	40	3.3	0.702	4/29/13 7:59	TPH
Benzene	0.22	0.035		0.70	0.11	0.702	4/29/13 7:59	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 7:59	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 7:59	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 7:59	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 7:59	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 7:59	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 7:59	TPH
Carbon Tetrachloride	0.046	0.035		0.29	0.22	0.702	4/29/13 7:59	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 7:59	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 7:59	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 7:59	TPH
Chloromethane	0.67	0.070		1.4	0.14	0.702	4/29/13 7:59	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 7:59	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 7:59	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 7:59	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 7:59	TPH
1,3-Dichlorobenzene	0.074	0.035		0.45	0.21	0.702	4/29/13 7:59	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 7:59	TPH
Dichlorodifluoromethane (Freon 12)	0.27	0.035		1.3	0.17	0.702	4/29/13 7:59	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 7:59	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 7:59	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 7:59	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 7:59	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 7:59	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 7:59	TPH
Ethanol	93	40		170	75	20	4/27/13 14:45	TPH
Ethyl Acetate	2.4	0.035		8.5	0.13	0.702	4/29/13 7:59	TPH
Ethylbenzene	0.28	0.035		1.2	0.15	0.702	4/29/13 7:59	TPH
4-Ethyltoluene	0.15	0.035		0.76	0.17	0.702	4/29/13 7:59	TPH
Heptane	0.16	0.035		0.65	0.14	0.702	4/29/13 7:59	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 7:59	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-3 **SS**
Sample ID: 13D1071-07
Sample Matrix: Sub Slab
Sampled: 4/23/2013 14:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1258
Canister Size: 6 liter
Flow Controller ID: 3524
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 7:59	TPH
2-Hexanone (MBK)	0.13	0.035		0.52	0.14	0.702	4/29/13 7:59	TPH
Isopropanol	4.0	1.4	L-05	9.9	3.4	0.702	4/29/13 7:59	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 7:59	TPH
Methylene Chloride	1.0	0.35		3.6	1.2	0.702	4/29/13 7:59	TPH
4-Methyl-2-pentanone (MIBK)	0.14	0.035	L-05	0.58	0.14	0.702	4/29/13 7:59	TPH
Naphthalene	0.23	0.035		1.2	0.18	0.702	4/29/13 7:59	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 7:59	TPH
Styrene	0.045	0.035		0.19	0.15	0.702	4/29/13 7:59	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 7:59	TPH
Tetrachloroethylene	0.046	0.035		0.31	0.24	0.702	4/29/13 7:59	TPH
Tetrahydrofuran	0.059	0.035		0.17	0.10	0.702	4/29/13 7:59	TPH
Toluene	1.7	0.035		6.3	0.13	0.702	4/29/13 7:59	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 7:59	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 7:59	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 7:59	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 7:59	TPH
Trichlorofluoromethane (Freon 11)	0.21	0.035		1.2	0.20	0.702	4/29/13 7:59	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.035	V-05	0.60	0.27	0.702	4/29/13 7:59	TPH
1,2,4-Trimethylbenzene	0.77	0.035		3.8	0.17	0.702	4/29/13 7:59	TPH
1,3,5-Trimethylbenzene	0.20	0.035		0.98	0.17	0.702	4/29/13 7:59	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 7:59	TPH
Vinyl Chloride	0.11	0.035		0.27	0.090	0.702	4/29/13 7:59	TPH
m&p-Xylene	0.92	0.070		4.0	0.30	0.702	4/29/13 7:59	TPH
o-Xylene	0.42	0.035		1.8	0.15	0.702	4/29/13 7:59	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.2	70-130	4/27/13 14:45
4-Bromofluorobenzene (1)	95.3	70-130	4/29/13 7:59

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-3 **IA**
Sample ID: 13D1071-08
Sample Matrix: Indoor air
Sampled: 4/23/2013 14:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1312
Canister Size: 6 liter
Flow Controller ID: 3346
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	15	1.4	L-05	36	3.3	0.702	4/29/13 2:45	TPH
Benzene	0.18	0.035		0.57	0.11	0.702	4/29/13 2:45	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 2:45	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 2:45	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 2:45	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 2:45	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 2:45	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 2:45	TPH
Carbon Tetrachloride	0.072	0.035		0.45	0.22	0.702	4/29/13 2:45	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 2:45	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 2:45	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 2:45	TPH
Chloromethane	0.65	0.070		1.3	0.14	0.702	4/29/13 2:45	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 2:45	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 2:45	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 2:45	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:45	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:45	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 2:45	TPH
Dichlorodifluoromethane (Freon 12)	0.26	0.035		1.3	0.17	0.702	4/29/13 2:45	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 2:45	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 2:45	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 2:45	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 2:45	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 2:45	TPH
Ethanol	18	1.4		34	2.6	0.702	4/29/13 2:45	TPH
Ethyl Acetate	1.9	0.035		6.8	0.13	0.702	4/29/13 2:45	TPH
Ethylbenzene	0.065	0.035		0.28	0.15	0.702	4/29/13 2:45	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/29/13 2:45	TPH
Heptane	0.098	0.035		0.40	0.14	0.702	4/29/13 2:45	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 2:45	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-3 **IA**
Sample ID: 13D1071-08
Sample Matrix: Indoor air
Sampled: 4/23/2013 14:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1312
Canister Size: 6 liter
Flow Controller ID: 3346
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 2:45	TPH
2-Hexanone (MBK)	0.17	0.035		0.71	0.14	0.702	4/29/13 2:45	TPH
Isopropanol	1.4	1.4	L-05	3.5	3.4	0.702	4/29/13 2:45	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 2:45	TPH
Methylene Chloride	0.41	0.35		1.4	1.2	0.702	4/29/13 2:45	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	4/29/13 2:45	TPH
Naphthalene	1.0	0.035		5.3	0.18	0.702	4/29/13 2:45	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 2:45	TPH
Styrene	0.036	0.035		0.15	0.15	0.702	4/29/13 2:45	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 2:45	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	4/29/13 2:45	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 2:45	TPH
Toluene	0.81	0.035		3.0	0.13	0.702	4/29/13 2:45	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 2:45	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 2:45	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 2:45	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 2:45	TPH
Trichlorofluoromethane (Freon 11)	0.18	0.035		1.0	0.20	0.702	4/29/13 2:45	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.035	V-05	0.47	0.27	0.702	4/29/13 2:45	TPH
1,2,4-Trimethylbenzene	0.072	0.035		0.36	0.17	0.702	4/29/13 2:45	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 2:45	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 2:45	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/29/13 2:45	TPH
m&p-Xylene	0.20	0.070		0.85	0.30	0.702	4/29/13 2:45	TPH
o-Xylene	0.078	0.035		0.34	0.15	0.702	4/29/13 2:45	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.2	70-130	4/29/13 2:45

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-2 **SS1**
Sample ID: 13D1071-09
Sample Matrix: Sub Slab
Sampled: 4/23/2013 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1271
Canister Size: 6 liter
Flow Controller ID: 3345
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -9.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	14	1.4	L-05	34	3.3	0.702	4/29/13 7:15	TPH
Benzene	2.7	0.035		8.6	0.11	0.702	4/29/13 7:15	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 7:15	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 7:15	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 7:15	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 7:15	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 7:15	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 7:15	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 7:15	TPH
Carbon Tetrachloride	0.048	0.035		0.30	0.22	0.702	4/29/13 7:15	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 7:15	TPH
Chloroethane	0.10	0.035		0.26	0.093	0.702	4/29/13 7:15	TPH
Chloroform	0.036	0.035		0.18	0.17	0.702	4/29/13 7:15	TPH
Chloromethane	0.77	0.070		1.6	0.14	0.702	4/29/13 7:15	TPH
Cyclohexane	0.95	0.035		3.3	0.12	0.702	4/29/13 7:15	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 7:15	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 7:15	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 7:15	TPH
1,3-Dichlorobenzene	0.046	0.035		0.28	0.21	0.702	4/29/13 7:15	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 7:15	TPH
Dichlorodifluoromethane (Freon 12)	0.27	0.035		1.4	0.17	0.702	4/29/13 7:15	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 7:15	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 7:15	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 7:15	TPH
cis-1,2-Dichloroethylene	1.7	0.035		6.8	0.14	0.702	4/29/13 7:15	TPH
trans-1,2-Dichloroethylene	0.067	0.035		0.26	0.14	0.702	4/29/13 7:15	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 7:15	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 7:15	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 7:15	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 7:15	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 7:15	TPH
Ethanol	86	40		160	75	20	4/27/13 14:07	TPH
Ethyl Acetate	0.72	0.035		2.6	0.13	0.702	4/29/13 7:15	TPH
Ethylbenzene	1.8	0.035		7.9	0.15	0.702	4/29/13 7:15	TPH
4-Ethyltoluene	0.59	0.035		2.9	0.17	0.702	4/29/13 7:15	TPH
Heptane	2.3	0.035		9.5	0.14	0.702	4/29/13 7:15	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 7:15	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-2 **SS1**
Sample ID: 13D1071-09
Sample Matrix: Sub Slab
Sampled: 4/23/2013 15:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1271
Canister Size: 6 liter
Flow Controller ID: 3345
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -9.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	7.8	1.4		28	4.9	0.702	4/29/13 7:15	TPH
2-Hexanone (MBK)	0.31	0.035		1.3	0.14	0.702	4/29/13 7:15	TPH
Isopropanol	3.2	1.4	L-05	8.0	3.4	0.702	4/29/13 7:15	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 7:15	TPH
Methylene Chloride	0.69	0.35		2.4	1.2	0.702	4/29/13 7:15	TPH
4-Methyl-2-pentanone (MIBK)	0.18	0.035		0.76	0.14	0.702	4/29/13 7:15	TPH
Naphthalene	0.10	0.035		0.55	0.18	0.702	4/29/13 7:15	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 7:15	TPH
Styrene	0.037	0.035		0.16	0.15	0.702	4/29/13 7:15	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 7:15	TPH
Tetrachloroethylene	28	0.035		190	0.24	0.702	4/29/13 7:15	TPH
Tetrahydrofuran	0.33	0.035		0.97	0.10	0.702	4/29/13 7:15	TPH
Toluene	14	0.035		51	0.13	0.702	4/29/13 7:15	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 7:15	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 7:15	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 7:15	TPH
Trichloroethylene	1.1	0.035		5.9	0.19	0.702	4/29/13 7:15	TPH
Trichlorofluoromethane (Freon 11)	1.8	0.035		10	0.20	0.702	4/29/13 7:15	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.069	0.035	V-05	0.53	0.27	0.702	4/29/13 7:15	TPH
1,2,4-Trimethylbenzene	2.1	0.035		10	0.17	0.702	4/29/13 7:15	TPH
1,3,5-Trimethylbenzene	0.52	0.035		2.6	0.17	0.702	4/29/13 7:15	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 7:15	TPH
Vinyl Chloride	0.13	0.035		0.33	0.090	0.702	4/29/13 7:15	TPH
m&p-Xylene	6.8	0.070		29	0.30	0.702	4/29/13 7:15	TPH
o-Xylene	2.4	0.035		10	0.15	0.702	4/29/13 7:15	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	90.3	70-130	4/27/13 14:07
4-Bromofluorobenzene (1)	101	70-130	4/29/13 7:15

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-1 **IA2**
Sample ID: 13D1071-10
Sample Matrix: Indoor air
Sampled: 4/23/2013 15:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1813
Canister Size: 6 liter
Flow Controller ID: 3516
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -7.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	9.9	1.4	L-05	23	3.3	0.702	4/29/13 3:30	TPH
Benzene	2.5	0.035		7.9	0.11	0.702	4/29/13 3:30	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 3:30	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 3:30	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 3:30	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 3:30	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 3:30	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 3:30	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 3:30	TPH
Carbon Tetrachloride	0.068	0.035		0.43	0.22	0.702	4/29/13 3:30	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 3:30	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 3:30	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 3:30	TPH
Chloromethane	0.67	0.070		1.4	0.14	0.702	4/29/13 3:30	TPH
Cyclohexane	0.90	0.035		3.1	0.12	0.702	4/29/13 3:30	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 3:30	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 3:30	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 3:30	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 3:30	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 3:30	TPH
Dichlorodifluoromethane (Freon 12)	0.27	0.035		1.3	0.17	0.702	4/29/13 3:30	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 3:30	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 3:30	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 3:30	TPH
cis-1,2-Dichloroethylene	1.1	0.035		4.5	0.14	0.702	4/29/13 3:30	TPH
trans-1,2-Dichloroethylene	0.042	0.035		0.17	0.14	0.702	4/29/13 3:30	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 3:30	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 3:30	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 3:30	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 3:30	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 3:30	TPH
Ethanol	42	40		79	75	20	4/29/13 14:06	TPH
Ethyl Acetate	0.68	0.035		2.5	0.13	0.702	4/29/13 3:30	TPH
Ethylbenzene	1.8	0.035		7.7	0.15	0.702	4/29/13 3:30	TPH
4-Ethyltoluene	0.58	0.035		2.8	0.17	0.702	4/29/13 3:30	TPH
Heptane	2.3	0.035		9.6	0.14	0.702	4/29/13 3:30	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 3:30	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-1 **IA2**
Sample ID: 13D1071-10
Sample Matrix: Indoor air
Sampled: 4/23/2013 15:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 1813
Canister Size: 6 liter
Flow Controller ID: 3516
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -7.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	7.4	1.4		26	4.9	0.702	4/29/13 3:30	TPH
2-Hexanone (MBK)	0.28	0.035		1.2	0.14	0.702	4/29/13 3:30	TPH
Isopropanol	1.8	1.4	L-05	4.3	3.4	0.702	4/29/13 3:30	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 3:30	TPH
Methylene Chloride	0.64	0.35		2.2	1.2	0.702	4/29/13 3:30	TPH
4-Methyl-2-pentanone (MIBK)	0.28	0.035	L-05	1.1	0.14	0.702	4/29/13 3:30	TPH
Naphthalene	0.26	0.035		1.4	0.18	0.702	4/29/13 3:30	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 3:30	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 3:30	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 3:30	TPH
Tetrachloroethylene	30	0.035		200	0.24	0.702	4/29/13 3:30	TPH
Tetrahydrofuran	0.11	0.035		0.31	0.10	0.702	4/29/13 3:30	TPH
Toluene	12	0.035		46	0.13	0.702	4/29/13 3:30	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 3:30	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 3:30	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 3:30	TPH
Trichloroethylene	1.0	0.035		5.4	0.19	0.702	4/29/13 3:30	TPH
Trichlorofluoromethane (Freon 11)	2.2	0.035		12	0.20	0.702	4/29/13 3:30	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.066	0.035	V-05	0.51	0.27	0.702	4/29/13 3:30	TPH
1,2,4-Trimethylbenzene	2.3	0.035		11	0.17	0.702	4/29/13 3:30	TPH
1,3,5-Trimethylbenzene	0.53	0.035		2.6	0.17	0.702	4/29/13 3:30	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 3:30	TPH
Vinyl Chloride	0.051	0.035		0.13	0.090	0.702	4/29/13 3:30	TPH
m&p-Xylene	6.5	0.070		28	0.30	0.702	4/29/13 3:30	TPH
o-Xylene	2.4	0.035		10	0.15	0.702	4/29/13 3:30	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	85.6	70-130	4/29/13 14:06
4-Bromofluorobenzene (1)	96.1	70-130	4/29/13 3:30

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-1 **SS2**
Sample ID: 13D1071-11
Sample Matrix: Sub Slab
Sampled: 4/23/2013 15:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1458
Canister Size: 6 liter
Flow Controller ID: 3514
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	12	1.4	L-05	28	3.3	0.702	4/29/13 6:29	TPH
Benzene	1.9	0.035		5.9	0.11	0.702	4/29/13 6:29	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 6:29	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 6:29	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 6:29	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 6:29	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 6:29	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 6:29	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 6:29	TPH
Carbon Tetrachloride	0.066	0.035		0.41	0.22	0.702	4/29/13 6:29	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 6:29	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 6:29	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 6:29	TPH
Chloromethane	0.56	0.070		1.2	0.14	0.702	4/29/13 6:29	TPH
Cyclohexane	0.60	0.035		2.1	0.12	0.702	4/29/13 6:29	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 6:29	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 6:29	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 6:29	TPH
1,3-Dichlorobenzene	0.036	0.035		0.22	0.21	0.702	4/29/13 6:29	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 6:29	TPH
Dichlorodifluoromethane (Freon 12)	0.29	0.035		1.4	0.17	0.702	4/29/13 6:29	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 6:29	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 6:29	TPH
1,1-Dichloroethylene	0.039	0.035		0.16	0.14	0.702	4/29/13 6:29	TPH
cis-1,2-Dichloroethylene	1.1	0.035		4.2	0.14	0.702	4/29/13 6:29	TPH
trans-1,2-Dichloroethylene	0.048	0.035		0.19	0.14	0.702	4/29/13 6:29	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 6:29	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 6:29	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 6:29	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 6:29	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 6:29	TPH
Ethanol	90	40		170	75	20	4/27/13 13:29	TPH
Ethyl Acetate	1.1	0.035		4.0	0.13	0.702	4/29/13 6:29	TPH
Ethylbenzene	1.2	0.035		5.1	0.15	0.702	4/29/13 6:29	TPH
4-Ethyltoluene	0.35	0.035		1.7	0.17	0.702	4/29/13 6:29	TPH
Heptane	1.6	0.035		6.5	0.14	0.702	4/29/13 6:29	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 6:29	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-1 **SS2**
Sample ID: 13D1071-11
Sample Matrix: Sub Slab
Sampled: 4/23/2013 15:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1458
Canister Size: 6 liter
Flow Controller ID: 3514
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	5.6	1.4		20	4.9	0.702	4/29/13 6:29	TPH
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.702	4/29/13 6:29	TPH
Isopropanol	2.9	1.4	L-05	7.2	3.4	0.702	4/29/13 6:29	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 6:29	TPH
Methylene Chloride	0.89	0.35		3.1	1.2	0.702	4/29/13 6:29	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	4/29/13 6:29	TPH
Naphthalene	0.11	0.035		0.60	0.18	0.702	4/29/13 6:29	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 6:29	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 6:29	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 6:29	TPH
Tetrachloroethylene	22	0.035		150	0.24	0.702	4/29/13 6:29	TPH
Tetrahydrofuran	0.045	0.035		0.13	0.10	0.702	4/29/13 6:29	TPH
Toluene	9.1	0.035		34	0.13	0.702	4/29/13 6:29	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 6:29	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 6:29	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 6:29	TPH
Trichloroethylene	0.84	0.035		4.5	0.19	0.702	4/29/13 6:29	TPH
Trichlorofluoromethane (Freon 11)	1.6	0.035		8.7	0.20	0.702	4/29/13 6:29	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.035	V-05	0.55	0.27	0.702	4/29/13 6:29	TPH
1,2,4-Trimethylbenzene	1.3	0.035		6.2	0.17	0.702	4/29/13 6:29	TPH
1,3,5-Trimethylbenzene	0.32	0.035		1.6	0.17	0.702	4/29/13 6:29	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 6:29	TPH
Vinyl Chloride	0.068	0.035		0.17	0.090	0.702	4/29/13 6:29	TPH
m&p-Xylene	4.3	0.070		19	0.30	0.702	4/29/13 6:29	TPH
o-Xylene	1.5	0.035		6.5	0.15	0.702	4/29/13 6:29	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.4	70-130	4/27/13 13:29
4-Bromofluorobenzene (1)	96.5	70-130	4/29/13 6:29

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: DUP 1
Sample ID: 13D1071-12
Sample Matrix: Air
Sampled: 4/22/2013 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1843
Canister Size: 6 liter
Flow Controller ID: 3515
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	9.8	1.4	L-05	23	3.3	0.702	4/29/13 5:44	TPH
Benzene	2.5	0.035		7.9	0.11	0.702	4/29/13 5:44	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 5:44	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 5:44	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 5:44	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 5:44	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 5:44	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 5:44	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 5:44	TPH
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	4/29/13 5:44	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 5:44	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 5:44	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 5:44	TPH
Chloromethane	0.67	0.070		1.4	0.14	0.702	4/29/13 5:44	TPH
Cyclohexane	0.91	0.035		3.1	0.12	0.702	4/29/13 5:44	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 5:44	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 5:44	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 5:44	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 5:44	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 5:44	TPH
Dichlorodifluoromethane (Freon 12)	0.27	0.035		1.3	0.17	0.702	4/29/13 5:44	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 5:44	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 5:44	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 5:44	TPH
cis-1,2-Dichloroethylene	1.1	0.035		4.5	0.14	0.702	4/29/13 5:44	TPH
trans-1,2-Dichloroethylene	0.048	0.035		0.19	0.14	0.702	4/29/13 5:44	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 5:44	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 5:44	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 5:44	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 5:44	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 5:44	TPH
Ethanol	40	40		76	75	20	4/27/13 12:51	TPH
Ethyl Acetate	0.63	0.035		2.3	0.13	0.702	4/29/13 5:44	TPH
Ethylbenzene	1.8	0.035		7.7	0.15	0.702	4/29/13 5:44	TPH
4-Ethyltoluene	0.58	0.035		2.8	0.17	0.702	4/29/13 5:44	TPH
Heptane	2.3	0.035		9.5	0.14	0.702	4/29/13 5:44	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 5:44	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: DUP 1
Sample ID: 13D1071-12
Sample Matrix: Air
Sampled: 4/22/2013 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1843
Canister Size: 6 liter
Flow Controller ID: 3515
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	7.5	1.4		26	4.9	0.702	4/29/13 5:44	TPH
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.702	4/29/13 5:44	TPH
Isopropanol	1.7	1.4	L-05	4.3	3.4	0.702	4/29/13 5:44	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 5:44	TPH
Methylene Chloride	0.73	0.35		2.5	1.2	0.702	4/29/13 5:44	TPH
4-Methyl-2-pentanone (MIBK)	0.26	0.035	L-05	1.1	0.14	0.702	4/29/13 5:44	TPH
Naphthalene	0.23	0.035		1.2	0.18	0.702	4/29/13 5:44	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 5:44	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 5:44	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 5:44	TPH
Tetrachloroethylene	30	0.035		210	0.24	0.702	4/29/13 5:44	TPH
Tetrahydrofuran	0.11	0.035		0.33	0.10	0.702	4/29/13 5:44	TPH
Toluene	12	0.035		47	0.13	0.702	4/29/13 5:44	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 5:44	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 5:44	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 5:44	TPH
Trichloroethylene	1.0	0.035		5.4	0.19	0.702	4/29/13 5:44	TPH
Trichlorofluoromethane (Freon 11)	2.3	0.035		13	0.20	0.702	4/29/13 5:44	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.067	0.035	V-05	0.52	0.27	0.702	4/29/13 5:44	TPH
1,2,4-Trimethylbenzene	2.2	0.035		11	0.17	0.702	4/29/13 5:44	TPH
1,3,5-Trimethylbenzene	0.52	0.035		2.6	0.17	0.702	4/29/13 5:44	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 5:44	TPH
Vinyl Chloride	0.048	0.035		0.12	0.090	0.702	4/29/13 5:44	TPH
m&p-Xylene	6.6	0.070		29	0.30	0.702	4/29/13 5:44	TPH
o-Xylene	2.4	0.035		10	0.15	0.702	4/29/13 5:44	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.6	70-130	4/29/13 5:44
4-Bromofluorobenzene (1)	91.2	70-130	4/27/13 12:51

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-2 **OA**
Sample ID: 13D1071-13
Sample Matrix: Ambient Air
Sampled: 4/23/2013 15:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1105
Canister Size: 6 liter
Flow Controller ID: 3511
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	3.6	1.4	L-05	8.6	3.3	0.702	4/29/13 4:14	TPH
Benzene	0.12	0.035		0.39	0.11	0.702	4/29/13 4:14	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 4:14	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 4:14	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 4:14	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 4:14	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 4:14	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 4:14	TPH
Carbon Tetrachloride	0.071	0.035		0.45	0.22	0.702	4/29/13 4:14	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 4:14	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 4:14	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 4:14	TPH
Chloromethane	0.65	0.070		1.3	0.14	0.702	4/29/13 4:14	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	4/29/13 4:14	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 4:14	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 4:14	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:14	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:14	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:14	TPH
Dichlorodifluoromethane (Freon 12)	0.30	0.035		1.5	0.17	0.702	4/29/13 4:14	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 4:14	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 4:14	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 4:14	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 4:14	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 4:14	TPH
Ethanol	2.7	1.4		5.1	2.6	0.702	4/29/13 4:14	TPH
Ethyl Acetate	0.59	0.035		2.1	0.13	0.702	4/29/13 4:14	TPH
Ethylbenzene	ND	0.035		ND	0.15	0.702	4/29/13 4:14	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	4/29/13 4:14	TPH
Heptane	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 4:14	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: SV-2 **OA**
Sample ID: 13D1071-13
Sample Matrix: Ambient Air
Sampled: 4/23/2013 15:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1105
Canister Size: 6 liter
Flow Controller ID: 3511
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	4/29/13 4:14	TPH
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
Isopropanol	ND	1.4		ND	3.4	0.702	4/29/13 4:14	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 4:14	TPH
Methylene Chloride	0.65	0.35		2.2	1.2	0.702	4/29/13 4:14	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	4/29/13 4:14	TPH
Naphthalene	ND	0.035		ND	0.18	0.702	4/29/13 4:14	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 4:14	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 4:14	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 4:14	TPH
Tetrachloroethylene	0.11	0.035		0.73	0.24	0.702	4/29/13 4:14	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 4:14	TPH
Toluene	0.21	0.035		0.80	0.13	0.702	4/29/13 4:14	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 4:14	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 4:14	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 4:14	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	4/29/13 4:14	TPH
Trichlorofluoromethane (Freon 11)	0.19	0.035		1.1	0.20	0.702	4/29/13 4:14	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.067	0.035	V-05	0.51	0.27	0.702	4/29/13 4:14	TPH
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 4:14	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	4/29/13 4:14	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 4:14	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	4/29/13 4:14	TPH
m&p-Xylene	0.088	0.070		0.38	0.30	0.702	4/29/13 4:14	TPH
o-Xylene	0.038	0.035		0.16	0.15	0.702	4/29/13 4:14	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.6	70-130	4/29/13 4:14

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: DUP 2
Sample ID: 13D1071-14
Sample Matrix: Air
Sampled: 4/22/2013 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1503
Canister Size: 6 liter
Flow Controller ID: 3513
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	12	1.4	L-05	29	3.3	0.702	4/29/13 4:59	TPH
Benzene	1.8	0.035		5.8	0.11	0.702	4/29/13 4:59	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	4/29/13 4:59	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	4/29/13 4:59	TPH
Bromoform	ND	0.035		ND	0.36	0.702	4/29/13 4:59	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	4/29/13 4:59	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	4/29/13 4:59	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	4/29/13 4:59	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	4/29/13 4:59	TPH
Carbon Tetrachloride	0.068	0.035		0.43	0.22	0.702	4/29/13 4:59	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	4/29/13 4:59	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	4/29/13 4:59	TPH
Chloroform	ND	0.035		ND	0.17	0.702	4/29/13 4:59	TPH
Chloromethane	0.55	0.070		1.1	0.14	0.702	4/29/13 4:59	TPH
Cyclohexane	0.58	0.035		2.0	0.12	0.702	4/29/13 4:59	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	4/29/13 4:59	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	4/29/13 4:59	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:59	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:59	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	4/29/13 4:59	TPH
Dichlorodifluoromethane (Freon 12)	0.27	0.035		1.3	0.17	0.702	4/29/13 4:59	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 4:59	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	4/29/13 4:59	TPH
1,1-Dichloroethylene	0.039	0.035		0.15	0.14	0.702	4/29/13 4:59	TPH
cis-1,2-Dichloroethylene	1.0	0.035		4.1	0.14	0.702	4/29/13 4:59	TPH
trans-1,2-Dichloroethylene	0.044	0.035		0.18	0.14	0.702	4/29/13 4:59	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	4/29/13 4:59	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 4:59	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	4/29/13 4:59	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	4/29/13 4:59	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	4/29/13 4:59	TPH
Ethanol	77	40		150	75	20	4/27/13 12:13	TPH
Ethyl Acetate	0.62	0.035		2.2	0.13	0.702	4/29/13 4:59	TPH
Ethylbenzene	1.1	0.035		4.9	0.15	0.702	4/29/13 4:59	TPH
4-Ethyltoluene	0.36	0.035		1.8	0.17	0.702	4/29/13 4:59	TPH
Heptane	1.6	0.035		6.4	0.14	0.702	4/29/13 4:59	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	4/29/13 4:59	TPH

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ANALYTICAL RESULTS

Project Location: Former Doro Cleaners, Buffalo
Date Received: 4/26/2013
Field Sample #: DUP 2
Sample ID: 13D1071-14
Sample Matrix: Air
Sampled: 4/22/2013 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1503
Canister Size: 6 liter
Flow Controller ID: 3513
Sample Type: 24 hr

Work Order: 13D1071
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	5.4	1.4		19	4.9	0.702	4/29/13 4:59	TPH
2-Hexanone (MBK)	0.22	0.035		0.90	0.14	0.702	4/29/13 4:59	TPH
Isopropanol	2.3	1.4	L-05	5.7	3.4	0.702	4/29/13 4:59	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	4/29/13 4:59	TPH
Methylene Chloride	0.68	0.35		2.3	1.2	0.702	4/29/13 4:59	TPH
4-Methyl-2-pentanone (MIBK)	0.21	0.035	L-05	0.88	0.14	0.702	4/29/13 4:59	TPH
Naphthalene	0.14	0.035		0.75	0.18	0.702	4/29/13 4:59	TPH
Propene	ND	1.4		ND	2.4	0.702	4/29/13 4:59	TPH
Styrene	ND	0.035		ND	0.15	0.702	4/29/13 4:59	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	4/29/13 4:59	TPH
Tetrachloroethylene	23	0.035		150	0.24	0.702	4/29/13 4:59	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	4/29/13 4:59	TPH
Toluene	8.5	0.035		32	0.13	0.702	4/29/13 4:59	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	4/29/13 4:59	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 4:59	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	4/29/13 4:59	TPH
Trichloroethylene	0.85	0.035		4.6	0.19	0.702	4/29/13 4:59	TPH
Trichlorofluoromethane (Freon 11)	1.5	0.035		8.3	0.20	0.702	4/29/13 4:59	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.065	0.035	V-05	0.49	0.27	0.702	4/29/13 4:59	TPH
1,2,4-Trimethylbenzene	1.5	0.035		7.3	0.17	0.702	4/29/13 4:59	TPH
1,3,5-Trimethylbenzene	0.38	0.035		1.8	0.17	0.702	4/29/13 4:59	TPH
Vinyl Acetate	ND	0.70		ND	2.5	0.702	4/29/13 4:59	TPH
Vinyl Chloride	0.067	0.035		0.17	0.090	0.702	4/29/13 4:59	TPH
m&p-Xylene	4.2	0.070		18	0.30	0.702	4/29/13 4:59	TPH
o-Xylene	1.5	0.035		6.5	0.15	0.702	4/29/13 4:59	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.6	70-130	4/27/13 12:13
4-Bromofluorobenzene (1)	94.6	70-130	4/29/13 4:59

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13D1071-01	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-02	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-02RE1	B071996	1.5	1	N/A	1000	400	30	04/28/13
13D1071-03	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-03RE1	B071996	1.5	1	N/A	1000	400	30	04/28/13
13D1071-04	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-05	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-05RE1	B071996	1.5	1	N/A	1000	400	30	04/28/13
13D1071-06	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-07	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-08	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-09	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-10	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-10RE1	B071996	1.5	1	N/A	1000	400	30	04/28/13
13D1071-11	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-12	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-13	B071996	1.5	1	N/A	1000	400	855	04/28/13
13D1071-14	B071996	1.5	1	N/A	1000	400	855	04/28/13

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13D1071-04RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13
13D1071-07RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13
13D1071-09RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13
13D1071-11RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13
13D1071-12RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13
13D1071-14RE1	B071997	1.5	1	N/A	1000	400	30	04/26/13

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B071996 - TO-15 Prep											
Blank (B071996-BLK1)					Prepared & Analyzed: 04/28/13						
Acetone	ND	1.0									
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.050									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
1,4-Dioxane	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Naphthalene	ND	0.025									
Propene	ND	1.0									
Styrene	ND	0.025									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B071996 - TO-15 Prep												
Blank (B071996-BLK1)					Prepared & Analyzed: 04/28/13							
1,1,2,2-Tetrachloroethane	ND	0.025										
Tetrachloroethylene	ND	0.025										
Tetrahydrofuran	ND	0.025										
Toluene	ND	0.025										
1,2,4-Trichlorobenzene	ND	0.025										
1,1,1-Trichloroethane	ND	0.025										
1,1,2-Trichloroethane	ND	0.025										
Trichloroethylene	ND	0.025										
Trichlorofluoromethane (Freon 11)	ND	0.025										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025										V-05
1,2,4-Trimethylbenzene	ND	0.025										
1,3,5-Trimethylbenzene	ND	0.025										
Vinyl Acetate	ND	0.50										
Vinyl Chloride	ND	0.025										
m&p-Xylene	ND	0.050										
o-Xylene	ND	0.025										
Surrogate: 4-Bromofluorobenzene (1)	*7.22*				*8.00*		*90.2*		*70-130*			
LCS (B071996-BS1)					Prepared & Analyzed: 04/28/13							
Acetone	6.96				5.00		**139**	*	70-130			L-05
Benzene	4.96				5.00		99.2		70-130			
Benzyl chloride	6.25				5.00		125		70-130			
Bromodichloromethane	6.00				5.00		120		70-130			
Bromoform	5.26				5.00		105		70-130			
Bromomethane	4.50				5.00		89.9		70-130			
1,3-Butadiene	5.54				5.00		111		70-130			
2-Butanone (MEK)	4.75				5.00		95.0		70-130			
Carbon Disulfide	4.48				5.00		89.6		70-130			
Carbon Tetrachloride	5.17				5.00		103		70-130			
Chlorobenzene	5.25				5.00		105		70-130			
Chloroethane	5.70				5.00		114		70-130			
Chloroform	4.20				5.00		84.1		70-130			
Chloromethane	5.44				5.00		109		70-130			
Cyclohexane	5.10				5.00		102		70-130			
Dibromochloromethane	5.14				5.00		103		70-130			
1,2-Dibromoethane (EDB)	5.26				5.00		105		70-130			
1,2-Dichlorobenzene	6.08				5.00		122		70-130			
1,3-Dichlorobenzene	6.12				5.00		122		70-130			
1,4-Dichlorobenzene	5.91				5.00		118		70-130			
Dichlorodifluoromethane (Freon 12)	4.59				5.00		91.7		70-130			
1,1-Dichloroethane	4.49				5.00		89.8		70-130			
1,2-Dichloroethane	4.65				5.00		92.9		70-130			
1,1-Dichloroethylene	4.30				5.00		86.0		70-130			
cis-1,2-Dichloroethylene	4.74				5.00		94.7		70-130			
trans-1,2-Dichloroethylene	4.49				5.00		89.8		70-130			
1,2-Dichloropropane	6.18				5.00		124		70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B071996 - TO-15 Prep												
LCS (B071996-BS1)					Prepared & Analyzed: 04/28/13							
cis-1,3-Dichloropropene	5.91				5.00		118		70-130			
trans-1,3-Dichloropropene	6.31				5.00		126		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.02				5.00		100		70-130			
1,4-Dioxane	5.51				5.00		110		70-130			
Ethanol	5.21				5.00		104		70-130			
Ethyl Acetate	5.27				5.00		105		70-130			
Ethylbenzene	5.43				5.00		109		70-130			
4-Ethyltoluene	5.58				5.00		112		70-130			
Heptane	5.98				5.00		120		70-130			
Hexachlorobutadiene	6.18				5.00		124		70-130			
Hexane	5.05				5.00		101		70-130			
2-Hexanone (MBK)	6.44				5.00		129		70-130			
Isopropanol	7.09				5.00		**142**	*	70-130			L-05
Methyl tert-Butyl Ether (MTBE)	4.21				5.00		84.2		70-130			
Methylene Chloride	4.61				5.00		92.2		70-130			
4-Methyl-2-pentanone (MIBK)	6.94				5.00		**139**	*	70-130			L-05
Naphthalene	5.27				5.00		105		70-130			
Propene	5.99				5.00		120		70-130			
Styrene	5.79				5.00		116		70-130			
1,1,2,2-Tetrachloroethane	6.68				5.00		**134**	*	70-130			L-01
Tetrachloroethylene	5.01				5.00		100		70-130			
Tetrahydrofuran	4.60				5.00		92.1		70-130			
Toluene	5.24				5.00		105		70-130			
1,2,4-Trichlorobenzene	6.23				5.00		125		70-130			
1,1,1-Trichloroethane	5.12				5.00		102		70-130			
1,1,2-Trichloroethane	5.56				5.00		111		70-130			
Trichloroethylene	5.36				5.00		107		70-130			
Trichlorofluoromethane (Freon 11)	4.00				5.00		80.0		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.76				5.00		75.1		70-130			V-05
1,2,4-Trimethylbenzene	6.13				5.00		123		70-130			
1,3,5-Trimethylbenzene	5.81				5.00		116		70-130			
Vinyl Acetate	4.28				5.00		85.5		70-130			
Vinyl Chloride	5.37				5.00		107		70-130			
m&p-Xylene	11.7				10.0		117		70-130			
o-Xylene	5.85				5.00		117		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.16*				*8.00*		*102*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B071996 - TO-15 Prep											
Duplicate (B071996-DUP1)			**Source: 13D1071-02**		Prepared: 04/28/13 Analyzed: 04/29/13						
Acetone	15	1.4	35	3.3		15			0.673	25	L-05
Benzene	0.20	0.035	0.63	0.11		0.20			0.704	25	
Benzyl chloride	ND	0.035	ND	0.18		ND				25	
Bromodichloromethane	ND	0.035	ND	0.24		ND				25	
Bromoform	ND	0.035	ND	0.36		ND				25	
Bromomethane	ND	0.035	ND	0.14		ND				25	
1,3-Butadiene	ND	0.035	ND	0.078		ND				25	
2-Butanone (MEK)	0.91	1.4	2.7	4.1		0.93			2.51	25	
Carbon Disulfide	ND	0.35	ND	1.1		ND				25	
Carbon Tetrachloride	0.080	0.035	0.50	0.22		0.081			0.873	25	
Chlorobenzene	ND	0.035	ND	0.16		ND				25	
Chloroethane	ND	0.035	ND	0.093		ND				25	
Chloroform	0.060	0.035	0.29	0.17		0.060			0.00	25	
Chloromethane	0.73	0.070	1.5	0.14		0.75			1.81	25	
Cyclohexane	ND	0.035	ND	0.12		ND				25	
Dibromochloromethane	ND	0.035	ND	0.30		ND				25	
1,2-Dibromoethane (EDB)	ND	0.035	ND	0.27		ND				25	
1,2-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,3-Dichlorobenzene	0.057	0.035	0.34	0.21		0.060			4.82	25	
1,4-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
Dichlorodifluoromethane (Freon 12)	1.1	0.035	5.2	0.17		1.0			1.61	25	
1,1-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,2-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,1-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
cis-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
trans-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
1,2-Dichloropropane	ND	0.035	ND	0.16		ND				25	
cis-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
trans-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	ND	0.25		ND				25	
1,4-Dioxane	ND	0.035	ND	0.13		ND				25	
Ethyl Acetate	3.9	0.035	14	0.13		4.0			2.72	25	
Ethylbenzene	0.31	0.035	1.4	0.15		0.32			0.895	25	
4-Ethyltoluene	0.16	0.035	0.76	0.17		0.16			2.24	25	
Heptane	0.15	0.035	0.62	0.14		0.15			1.39	25	
Hexachlorobutadiene	ND	0.035	ND	0.37		ND				25	
Hexane	0.47	1.4	1.7	4.9		0.48			1.76	25	
2-Hexanone (MBK)	0.15	0.035	0.62	0.14		0.15			0.462	25	
Isopropanol	5.7	1.4	14	3.4		5.8			2.18	25	L-05
Methyl tert-Butyl Ether (MTBE)	ND	0.035	ND	0.13		ND				25	
Methylene Chloride	1.3	0.35	4.4	1.2		1.3			1.93	25	
4-Methyl-2-pentanone (MIBK)	0.16	0.035	0.67	0.14		0.16			0.866	25	L-05
Naphthalene	0.11	0.035	0.59	0.18		0.11			0.627	25	
Propene	ND	1.4	ND	2.4		ND				25	
Styrene	0.058	0.035	0.25	0.15		0.060			2.38	25	
1,1,2,2-Tetrachloroethane	ND	0.035	ND	0.24		ND				25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B071996 - TO-15 Prep											
Duplicate (B071996-DUP1)		**Source: 13D1071-02**			Prepared: 04/28/13 Analyzed: 04/29/13						
Tetrachloroethylene	0.11	0.035	0.75	0.24		0.11			0.639	25	
Tetrahydrofuran	0.046	0.035	0.13	0.10		0.039			14.9	25	
Toluene	1.5	0.035	5.8	0.13		1.5			0.956	25	
1,2,4-Trichlorobenzene	ND	0.035	ND	0.26		ND				25	
1,1,1-Trichloroethane	ND	0.035	ND	0.19		ND				25	
1,1,2-Trichloroethane	ND	0.035	ND	0.19		ND				25	
Trichloroethylene	ND	0.035	ND	0.19		ND				25	
Trichlorofluoromethane (Freon 11)	0.58	0.035	3.3	0.20		0.60			3.22	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.035	0.63	0.27		0.085			3.36	25	V-05
1,2,4-Trimethylbenzene	0.76	0.035	3.7	0.17		0.76			0.277	25	
1,3,5-Trimethylbenzene	0.21	0.035	1.0	0.17		0.20			1.72	25	
Vinyl Acetate	ND	0.70	ND	2.5		ND				25	
Vinyl Chloride	0.044	0.035	0.11	0.090		0.044			0.00	25	
m&p-Xylene	1.0	0.070	4.4	0.30		1.0			0.276	25	
o-Xylene	0.45	0.035	2.0	0.15		0.44			2.04	25	
Surrogate: 4-Bromofluorobenzene (1)	*7.61*				*8.00*		*95.1*	*70-130*			
Duplicate (B071996-DUP2)		**Source: 13D1071-02RE1**			Prepared: 04/28/13 Analyzed: 04/29/13						
Ethanol	120	40	230	75		110			10.0	25	
Surrogate: 4-Bromofluorobenzene (1)	*7.22*				*8.00*		*90.2*	*70-130*			
Batch B071997 - TO-15 Prep											
Blank (B071997-BLK1)					Prepared & Analyzed: 04/26/13						
Ethanol	ND	1.0									
Surrogate: 4-Bromofluorobenzene (1)	*7.60*				*8.00*		*95.0*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B071997 - TO-15 Prep											
LCS (B071997-BS1)					Prepared & Analyzed: 04/26/13						
Ethanol	5.35				5.00		107	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.80*				*8.00*		*97.5*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S004129-CCV1)			Lab File ID: B042802.D			Analyzed: 04/28/13 18:44			
Bromochloromethane (1)	271114	8.279	241397	8.28	112	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	377926	10.166	438709	10.172	86	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	363457	14.937	404360	14.947	90	60 - 140	-0.0100	+/-0.50	
LCS (B071996-BS1)			Lab File ID: B042803.D			Analyzed: 04/28/13 19:25			
Bromochloromethane (1)	271682	8.282	271114	8.279	100	60 - 140	0.0030	+/-0.50	
1,4-Difluorobenzene (1)	385079	10.168	377926	10.166	102	60 - 140	0.0020	+/-0.50	
Chlorobenzene-d5 (1)	367063	14.939	363457	14.937	101	60 - 140	0.0020	+/-0.50	
Blank (B071996-BLK1)			Lab File ID: B042807.D			Analyzed: 04/28/13 22:15			
Bromochloromethane (1)	261217	8.278	271114	8.279	96	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	363512	10.165	377926	10.166	96	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	339904	14.936	363457	14.937	94	60 - 140	-0.0010	+/-0.50	
(13D1071-01)			Lab File ID: B042809.D			Analyzed: 04/28/13 23:44			
Bromochloromethane (1)	249755	8.274	271114	8.279	92	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	337707	10.167	377926	10.166	89	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	316413	14.932	363457	14.937	87	60 - 140	-0.0050	+/-0.50	
(13D1071-03)			Lab File ID: B042810.D			Analyzed: 04/29/13 00:29			
Bromochloromethane (1)	256660	8.274	271114	8.279	95	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	351750	10.167	377926	10.166	93	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	334123	14.938	363457	14.937	92	60 - 140	0.0010	+/-0.50	
(13D1071-05)			Lab File ID: B042811.D			Analyzed: 04/29/13 01:15			
Bromochloromethane (1)	265663	8.279	271114	8.279	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	368519	10.166	377926	10.166	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	356288	14.937	363457	14.937	98	60 - 140	0.0000	+/-0.50	
(13D1071-06)			Lab File ID: B042812.D			Analyzed: 04/29/13 02:00			
Bromochloromethane (1)	278440	8.274	271114	8.279	103	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	403308	10.167	377926	10.166	107	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	378350	14.932	363457	14.937	104	60 - 140	-0.0050	+/-0.50	
(13D1071-08)			Lab File ID: B042813.D			Analyzed: 04/29/13 02:45			
Bromochloromethane (1)	271259	8.279	271114	8.279	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	394539	10.166	377926	10.166	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	374723	14.931	363457	14.937	103	60 - 140	-0.0060	+/-0.50	
(13D1071-10)			Lab File ID: B042814.D			Analyzed: 04/29/13 03:30			
Bromochloromethane (1)	292440	8.279	271114	8.279	108	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	444451	10.166	377926	10.166	118	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	421418	14.937	363457	14.937	116	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
(13D1071-13)			Lab File ID: B042815.D			Analyzed: 04/29/13 04:14			
Bromochloromethane (1)	295086	8.273	271114	8.279	109	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	468564	10.166	377926	10.166	124	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	436004	14.931	363457	14.937	120	60 - 140	-0.0060	+/-0.50	
(13D1071-14)			Lab File ID: B042816.D			Analyzed: 04/29/13 04:59			
Bromochloromethane (1)	300667	8.276	271114	8.279	111	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	470015	10.169	377926	10.166	124	60 - 140	0.0030	+/-0.50	
Chlorobenzene-d5 (1)	445108	14.934	363457	14.937	122	60 - 140	-0.0030	+/-0.50	
(13D1071-12)			Lab File ID: B042817.D			Analyzed: 04/29/13 05:44			
Bromochloromethane (1)	304759	8.28	271114	8.279	112	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	480882	10.166	377926	10.166	127	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	454197	14.931	363457	14.937	125	60 - 140	-0.0060	+/-0.50	
(13D1071-11)			Lab File ID: B042818.D			Analyzed: 04/29/13 06:29			
Bromochloromethane (1)	303902	8.278	271114	8.279	112	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	496827	10.165	377926	10.166	131	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	463842	14.936	363457	14.937	128	60 - 140	-0.0010	+/-0.50	
(13D1071-09)			Lab File ID: B042819.D			Analyzed: 04/29/13 07:15			
Bromochloromethane (1)	309011	8.278	271114	8.279	114	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	503041	10.165	377926	10.166	133	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	449584	14.936	363457	14.937	124	60 - 140	-0.0010	+/-0.50	
(13D1071-07)			Lab File ID: B042820.D			Analyzed: 04/29/13 07:59			
Bromochloromethane (1)	311597	8.277	271114	8.279	115	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	505595	10.164	377926	10.166	134	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	473946	14.935	363457	14.937	130	60 - 140	-0.0020	+/-0.50	
(13D1071-04)			Lab File ID: B042821.D			Analyzed: 04/29/13 08:44			
Bromochloromethane (1)	305606	8.279	271114	8.279	113	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	492275	10.166	377926	10.166	130	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	461609	14.931	363457	14.937	127	60 - 140	-0.0060	+/-0.50	
(13D1071-02)			Lab File ID: B042822.D			Analyzed: 04/29/13 09:29			
Bromochloromethane (1)	305570	8.279	271114	8.279	113	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	497750	10.165	377926	10.166	132	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	465118	14.93	363457	14.937	128	60 - 140	-0.0070	+/-0.50	
Duplicate (B071996-DUP1)			Lab File ID: B042823.D			Analyzed: 04/29/13 10:16			
Bromochloromethane (1)	312312	8.274	271114	8.279	115	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	498973	10.167	377926	10.166	132	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	465072	14.932	363457	14.937	128	60 - 140	-0.0050	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
(13D1071-03RE1)			Lab File ID: B042825.D			Analyzed: 04/29/13 12:51			
Bromochloromethane (1)	326922	8.275	271114	8.279	121	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	466194	10.161	377926	10.166	123	60 - 140	-0.0050	+/-0.50	
Chlorobenzene-d5 (1)	418972	14.926	363457	14.937	115	60 - 140	-0.0110	+/-0.50	
(13D1071-05RE1)			Lab File ID: B042826.D			Analyzed: 04/29/13 13:28			
Bromochloromethane (1)	281900	8.277	271114	8.279	104	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	404955	10.164	377926	10.166	107	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	353569	14.929	363457	14.937	97	60 - 140	-0.0080	+/-0.50	
(13D1071-10RE1)			Lab File ID: B042827.D			Analyzed: 04/29/13 14:06			
Bromochloromethane (1)	296038	8.277	271114	8.279	109	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	412943	10.164	377926	10.166	109	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	370723	14.929	363457	14.937	102	60 - 140	-0.0080	+/-0.50	
(13D1071-02RE1)			Lab File ID: B042828.D			Analyzed: 04/29/13 14:44			
Bromochloromethane (1)	290030	8.278	271114	8.279	107	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	386697	10.164	377926	10.166	102	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	351014	14.929	363457	14.937	97	60 - 140	-0.0080	+/-0.50	
Duplicate (B071996-DUP2)			Lab File ID: B042829.D			Analyzed: 04/29/13 15:22			
Bromochloromethane (1)	255803	8.278	271114	8.279	94	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	350784	10.164	377926	10.166	93	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	303118	14.929	363457	14.937	83	60 - 140	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S004130-CCV1)			Lab File ID: B042602.D			Analyzed: 04/26/13 15:22			
Bromochloromethane (1)	328969	8.28	241397	8.28	136	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	525058	10.166	438709	10.172	120	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	496007	14.931	404360	14.947	123	60 - 140	-0.0160	+/-0.50	
LCS (B071997-BS1)			Lab File ID: B042603.D			Analyzed: 04/26/13 16:00			
Bromochloromethane (1)	327043	8.279	328969	8.28	99	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	518128	10.166	525058	10.166	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	495543	14.931	496007	14.931	100	60 - 140	0.0000	+/-0.50	
Blank (B071997-BLK1)			Lab File ID: B042607.D			Analyzed: 04/26/13 18:42			
Bromochloromethane (1)	310112	8.28	328969	8.28	94	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	484194	10.167	525058	10.166	92	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	450428	14.938	496007	14.931	91	60 - 140	0.0070	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
DUP 2 (13D1071-14RE1)			Lab File ID: B042631.D			Analyzed: 04/27/13 12:13			
Bromochloromethane (1)	263512	8.28	328969	8.28	80	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	371118	10.167	525058	10.166	71	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	350272	14.938	496007	14.931	71	60 - 140	0.0070	+/-0.50	
DUP 1 (13D1071-12RE1)			Lab File ID: B042632.D			Analyzed: 04/27/13 12:51			
Bromochloromethane (1)	258935	8.278	328969	8.28	79	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	355475	10.165	525058	10.166	68	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	333013	14.936	496007	14.931	67	60 - 140	0.0050	+/-0.50	
(13D1071-11RE1)			Lab File ID: B042633.D			Analyzed: 04/27/13 13:29			
Bromochloromethane (1)	258779	8.279	328969	8.28	79	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	351919	10.166	525058	10.166	67	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	330590	14.931	496007	14.931	67	60 - 140	0.0000	+/-0.50	
(13D1071-09RE1)			Lab File ID: B042634.D			Analyzed: 04/27/13 14:07			
Bromochloromethane (1)	252118	8.279	328969	8.28	77	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	339145	10.166	525058	10.166	65	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	320865	14.931	496007	14.931	65	60 - 140	0.0000	+/-0.50	
(13D1071-07RE1)			Lab File ID: B042635.D			Analyzed: 04/27/13 14:45			
Bromochloromethane (1)	248390	8.279	328969	8.28	76	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	331340	10.166	525058	10.166	63	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	312493	14.931	496007	14.931	63	60 - 140	0.0000	+/-0.50	
(13D1071-04RE1)			Lab File ID: B042636.D			Analyzed: 04/27/13 15:23			
Bromochloromethane (1)	246270	8.279	328969	8.28	75	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	324393	10.166	525058	10.166	62	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	309950	14.931	496007	14.931	62	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S004129-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	6.19	0.8283546	1.025906	0.05	23.8	30
Benzene	A	5.00	4.57	0.9413508	0.8610913	0.05	-8.5	30
Benzyl chloride	A	5.00	5.46	0.9366321	1.023007	0.05	9.2	30
Bromodichloromethane	A	5.00	5.55	0.6896837	0.7653138	0.05	11.0	30
Bromoform	A	5.00	4.61	0.6450373	0.5949667	0.05	-7.8	30
Bromomethane	A	5.00	4.17	0.6831357	0.5699684	0.05	-16.6	30
1,3-Butadiene	A	5.00	5.13	0.3631511	0.3726609	0.05	2.6	30
2-Butanone (MEK)	A	5.00	4.19	1.545372	1.293873	0.05	-16.3	30
Carbon Disulfide	A	5.00	3.66	1.787941	1.308999	0.05	-26.8	30
Carbon Tetrachloride	A	5.00	4.67	0.5349463	0.4999921	0.05	-6.5	30
Chlorobenzene	A	5.00	4.64	0.7508891	0.6970574	0.05	-7.2	30
Chloroethane	A	5.00	5.29	0.2783443	0.2945182	0.05	5.8	30
Chloroform	A	5.00	3.80	1.212155	0.9218262	0.05	-24.0	30
Chloromethane	A	5.00	5.17	0.5418058	0.5603252	0.05	3.4	30
Cyclohexane	A	5.00	4.69	0.3674421	0.3447024	0.05	-6.2	30
Dibromochloromethane	A	5.00	4.62	0.7473385	0.6899963	0.05	-7.7	30
1,2-Dibromoethane (EDB)	A	5.00	4.74	0.6600501	0.6262397	0.05	-5.1	30
1,2-Dichlorobenzene	A	5.00	5.29	0.6481301	0.6853961	0.05	5.7	30
1,3-Dichlorobenzene	A	5.00	5.37	0.7015668	0.7536605	0.05	7.4	30
1,4-Dichlorobenzene	A	5.00	5.18	0.7096668	0.73474	0.05	3.5	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.24	1.429498	1.213423	0.05	-15.1	30
1,1-Dichloroethane	A	5.00	4.09	1.092829	0.8936993	0.05	-18.2	30
1,2-Dichloroethane	A	5.00	4.23	0.7865236	0.6655031	0.05	-15.4	30
1,1-Dichloroethylene	A	5.00	3.96	0.9569238	0.7585473	0.05	-20.7	30
cis-1,2-Dichloroethylene	A	5.00	4.23	0.8321314	0.7036332	0.05	-15.4	30
trans-1,2-Dichloroethylene	A	5.00	4.03	0.8759026	0.7063597	0.05	-19.4	30
1,2-Dichloropropane	A	5.00	5.80	0.360087	0.4179781	0.05	16.1	30
cis-1,3-Dichloropropene	A	5.00	5.45	0.523818	0.5710028	0.05	9.0	30
trans-1,3-Dichloropropene	A	5.00	5.73	0.4919749	0.5635093	0.05	14.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.68	1.685769	1.577869	0.05	-6.4	30
1,4-Dioxane	A	5.00	4.98	0.193588	0.1926557	0.05	-0.5	30
Ethanol	A	5.00	5.22	0.1820862	0.1901193	0.05	4.4	30
Ethyl Acetate	A	5.00	4.46	0.1888158	0.1684251	0.05	-10.8	30
Ethylbenzene	A	5.00	4.85	1.243091	1.205262	0.05	-3.0	30
4-Ethyltoluene	A	5.00	5.05	1.17607	1.188441	0.05	1.1	30
Heptane	A	5.00	5.70	0.2781826	0.3168282	0.05	13.9	30
Hexachlorobutadiene	A	5.00	4.99	0.3871347	0.3861012	0.05	-0.3	30
Hexane	A	5.00	4.54	0.7062516	0.6418732	0.05	-9.1	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S004129-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone (MBK)	A	5.00	5.27	0.9700782	1.022418	0.05	5.4	30	
Isopropanol	A	5.00	6.11	0.8060302	0.9844597	0.05	22.1	30	
Methyl tert-Butyl Ether (MTBE)	A	5.00	3.78	1.499911	1.133404	0.05	-24.4	30	
Methylene Chloride	A	5.00	4.20	0.8355231	0.7022935	0.05	-15.9	30	
4-Methyl-2-pentanone (MIBK)	A	5.00	6.00	0.9094714	1.091507	0.05	20.0	30	
Naphthalene	A	5.00	4.04	1.246215	1.007538	0.05	-19.2	30	
Propene	A	5.00	5.64	0.4557526	0.5136201	0.05	12.7	30	
Styrene	A	5.00	5.10	0.6679813	0.6812844	0.05	2.0	30	
1,1,2,2-Tetrachloroethane	A	5.00	6.01	0.9452754	1.136152	0.05	20.2	30	
Tetrachloroethylene	A	5.00	4.45	0.4528223	0.4029087	0.05	-11.0	30	
Tetrahydrofuran	A	5.00	4.01	0.2562512	0.2055932	0.05	-19.8	30	
Toluene	A	5.00	4.73	0.957834	0.9055399	0.05	-5.5	30	
1,2,4-Trichlorobenzene	A	5.00	4.93	0.4479159	0.4419296	0.05	-1.3	30	
1,1,1-Trichloroethane	A	5.00	4.72	0.5392166	0.5094246	0.05	-5.5	30	
1,1,2-Trichloroethane	A	5.00	4.99	0.3705677	0.3715389	0.05	0.3	30	
Trichloroethylene	A	5.00	4.98	0.3742704	0.372475	0.05	-0.5	30	
Trichlorofluoromethane (Freon 11)	A	5.00	3.62	1.248934	0.9035786	0.05	-27.7	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	3.38	1.044253	0.7048312	0.05	-32.5	30	*
1,2,4-Trimethylbenzene	A	5.00	5.27	0.9274325	0.9772116	0.05	5.4	30	
1,3,5-Trimethylbenzene	A	5.00	5.14	0.9520193	0.9785191	0.05	2.8	30	
Vinyl Acetate	A	5.00	3.90	1.995075	1.555431	0.05	-22.0	30	
Vinyl Chloride	A	5.00	4.99	0.5783172	0.5772981	0.05	-0.2	30	
m&p-Xylene	A	10.0	10.4	1.013541	1.050878	0.05	3.7	30	
o-Xylene	A	5.00	5.28	0.9589857	1.011716	0.05	5.5	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S004130-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethanol	A	5.00	5.32	0.1820862	0.1938712	0.05	6.5	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA
Benzene	AIHA,FL,NJ,NY,VA
Benzyl chloride	AIHA,FL,NJ,NY,VA
Bromodichloromethane	AIHA,NJ,VA
Bromoform	AIHA,NJ,VA
Bromomethane	AIHA,FL,NJ,NY
1,3-Butadiene	AIHA,NJ,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA
Carbon Disulfide	AIHA,NJ,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA
Chlorobenzene	AIHA,FL,NJ,NY,VA
Chloroethane	AIHA,FL,NJ,NY,VA
Chloroform	AIHA,FL,NJ,NY,VA
Chloromethane	AIHA,FL,NJ,NY,VA
Cyclohexane	AIHA,NJ,VA
Dibromochloromethane	AIHA,NY
1,2-Dibromoethane (EDB)	AIHA,NJ,NY
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA
1,3-Dichlorobenzene	AIHA,NJ,NY
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA
trans-1,3-Dichloropropene	AIHA,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,VA
1,4-Dioxane	AIHA,NJ,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,VA
Hexachlorobutadiene	AIHA,NJ,NY,VA
Hexane	AIHA,FL,NJ,NY,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA
Methylene Chloride	AIHA,FL,NJ,NY,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Naphthalene	NY
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Acetate	AIHA,FL,NJ,NY,VA
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA
o-Xylene	AIHA,FL,NJ,NY,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

13D1071

Company Name: CDM Smith
Address: 11 British American Blvd
Latham, NY 12110
Attention: Heather Hallett
Project Location: Former Doro Cleaners, Buffalo
Sampled By: E Rosenzweig, H Hallett

Telephone: (518) 782-4500
Project # 94461
Client PO #

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax # :
Email: HallettHL@CDMSmith.com
Format: ☒EXCEL ☒PDF ☐GIS KEY ☒OTHER Cat B NYSDEC EDD

Proposal Provided? (For Billing purposes)
☒yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS: Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED: TO-15	" Hg: Initial pressure	" Hg: Final Pressure	" Hg: Lab Receipt Pressure	Summa Canister ID	Flow Control ID
01	SV-4 OA	S		4/22/13 13:06	4/23/13 12:33				AMB	X	-30	-3	4.1	1649	3517
02	SV-4 SS	S		4/22/13 13:04	4/23/13 13:04				SS	X	-30	-8.5	9.1	1805	3516
03	SV-4 IA	S		4/22/13 13:05	4/23/13 13:05				IA	X	-30	-6.5	7.8	1340	3517
04	SV-5 SS	S		4/22/13 13:38	4/23/13 13:38				SS	X	-29	-7.5	2.5	1627	3519
05	SV-5 IA	S		4/22/13 13:39	4/23/13 13:39				IA	X	-29.5	-7	8.6	1856 ~~5300~~	3521
06	SV-5 OA	S		4/22/13 13:40	4/23/13 13:40				AMB	X	-30	-6	6.1	1343	3522
07	SV-3 SS	S		4/22/13 14:38	4/23/13 14:38				SS	X	-29	-7	8.7	1258	3524
08	SV-3 IA	S		4/22/13 14:39	4/23/13 14:39				IA	X	-30	-7	8	1312	3346

Please fill out completely, sign, da and retain the yellow copy for your record

Summa canisters ar flow controllers mus returned within 14 d of receipt or rental f will apply.

Summa canisters wi retained for a minim of 14 days after sampling date prior cleaning.

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
[signature]	4/23/13 1000	[signature]	4/23/13 1322
Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: _____
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☒ Y ☐ N
(Surchage Applies) NYSDEC EDD
Required Detection Limits: _____
Other: NYSDEC Contract Rates

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

13D1071

Company Name: CDM Smith
Address: 11 British American Blvd, Latham, NY 12110
Attention: Heather Hallett
Project Location: Former Doro Cleaners, Buffalo
Sampled By: E Rosenzweig, H Hallett

Telephone: (518) 782-4500
Project # 94461
Client PO #

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email: HallettHL@CDMSmith.com NYSDEC CategoryB
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☒ OTHER EDD

Proposal Provided? (For Billing purposes)
☒ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED TO-15				" Hg Initial pressure	" Hg Final Pressure	Lab Receipt Pressure	Summa Canister ID	Flow Control ID
09	SV-2 SS1	S		4/22/13 15:26	4/23/13 15:26				SS	X				-28.5	-7	9.6	1271	334
10	SV-1 IA2	S		4/22/13 15:38	4/23/13 15:38				IA	X				-29.5	-7	7.1	1813	351
11	SV-1 SS2	S		4/22/13 15:35	4/23/13 15:35				SS	X				-29	-5	6.4	1458	3514
12	DUP1	S							[redacted]	X				-29	-8	8.6	1843	3515
13	SV-2 OA	S		4/22/13 15:45	4/23/13				AMB	X				-28	-4	6.4	1105	3511
14	DUP2	S		#						X				-27	-5	7.3	1503	3513

Please fill out completely, sign, da and retain the yellow copy for your record

Summa canisters ar flow controllers mus returned within 14 d of receipt or rental f will apply.

Summa canisters w retained for a minim of 14 days after sampling date prior cleaning.

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
E Rosenzweig	4/24/13 1000
Received by: (signature)	Date/Time:
[signature]	4/24/13 1424
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: _____
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☒ Y ☐ N
(Surchage Applies) NYSDECEDD
Required Detection Limits: CategoryB
Other: NYSDEC Contract Rates

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

FedEx.

961201934357561500374 3

Ship (P/U) date:
Thur 4/25/2013
LATHAM, NY US

Delivered
Signed for by: B.FERRARA

Actual delivery:
Fri 4/26/2013 1:23 pm
EAST LONGMEADOW, MA US

4 Piece shipment

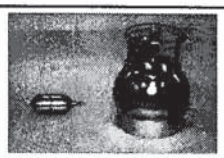
Travel History

Date/Time	Activity	Location
- 4/26/2013 - Friday		
1:23 pm	Delivered	East Longmeadow, MA
6:11 am	On FedEx vehicle for delivery	CHICOPEE, MA
5:43 am	At local FedEx facility	CHICOPEE, MA
2:36 am	Left FedEx origin facility	RENSSELAER, NY
- 4/25/2013 - Thursday		
7:45 pm	Arrived at FedEx location	RENSSELAER, NY
2:52 pm	Picked up	RENSSELAER, NY
- 4/24/2013 - Wednesday		
11:27 am	Shipment information sent to FedEx	

Local Scan Time

Shipment Facts

Tracking number	961201934357561500374 3	**Service**	FedEx Ground
Reference	0897-94461-TASK2.FIELD.P1	**Master tracking number**	343575615003712
Weight	15 lbs	**Dimensions**	22x18x13 in.
Total pieces	4	**Total shipment weight**	60 lbs / 27.2 kgs
Purchase order number	3735	**Packaging**	Package



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AIR Only Receipt Checklist

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

CLIENT NAME: CDM Smith RECEIVED BY: MF DATE: 4/26/13

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

6) Location where samples are stored: AIR LAB

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans	14	6 L
Tedlar Bags		
Tubes		
Regulators	19	24 hr.
Restrictors		
Tubing		
Other		

Unused Summas:

Unused Regulators: 3512 3414 3525 3526 3523

1) Was all media (used & unused checked into the WASP?

2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1649 1805 1340 1627 1856 1343 1258 1312 1271 1813 1458 1843 1105 1503 3520 3518 3517 3519 3521 3522 3524 3346 3345 3516 3514 3515 3511 3513

Air Sampling Media Certificate of Analysis

Date Analyzed: 4/11/2013 **Batch #:** 13CC0201

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:	BC1856	BC1343	BC1312

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 4/29/13

Air Sampling Media Certificate of Analysis

Date Analyzed: 4/11/2013 **Batch #:** 13CC0202

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1258 BC1271

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 4/29/13

Air Sampling Media Certificate of Analysis

Date Analyzed: 4/14/2013 **Batch #:** 13CC0207

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:		
BC1649	BC1805	BC1340
BC1813	BC1458	BC1843
BC1105	BC1503	

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 4/29/13

Air Sampling Media Certificate of Analysis

Date Analyzed: 4/22/2013 **Batch #:** 13CC0211

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1627

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 4/29/13

Appendix E

DATA USABILITY SUMMARY REPORT
(DUSR)

DATA USABILITY SUMMARY REPORT
Volatile Organics
by EPA Compendium Method TO-15
Laboratory SDG: Data Package # 13D1071

Sample Identification

Field Sample ID	Lab ID	Matrix
SV-4 OA	13D1071-01	Air
SV-4 SS	13D1071-02	Air
SV-4 IA	13D1071-03	Air
SV-5 OA	13D1071-04	Air
SV-5 SS	13D1071-05	Air
SV-5 IA	13D1071-06	Air
SV-3 SS	13D1071-07	Air
SV-3 IA	13D1071-08	Air
SV-2 SS1	13D1071-09	Air
SV-1 IA2	13D1071-10	Air
SV-1 SS2	13D1071-11	Air
DUP 1	13D1071-12	Air
SV-2 OA	13D1071-13	Air
DUP 2	13D1071-14	Air

I. DATA PACKAGE COMPLETENESS AND CASE NARRATIVE

The laboratory submitted required deliverables. It is noted that the electronic copy was not bookmarked thoroughly for content, and no Table of Contents was included.

II. TECHNICAL DATA VALIDATION

The quality control elements that were reviewed are listed below:

Holding Times
Blanks
Reported Results
Accuracy
Precision
Instrument Performance and Calibration

Holding Times

Prescribed holding times for all samples were met. Canister pressures pre- and post-sampling were recorded on the chain-of-custody and were acceptable.

Blanks

All method blanks were reported free of contamination below the analyte PQL values.

Reported Results

Reported positive results in field samples were qualitatively verified from raw data chromatograms and spectral match.

Accuracy

Surrogate recoveries and internal standard responses were within limits. It is noted that NYSDEC and method guidance do not require surrogate spikes for TO-15 canister samples.

Blank Spike (LCS) samples were reported; the following target compound recoveries exceeded the upper limits: 4-methyl-2-pentanone (MIBK), acetone, isopropanol (IPA), and 1,1,2,2-tetrachloroethane.

Positive results for MIBK, acetone and IPA were qualified as estimated values (J) in associated samples, with indication of high bias. No positives were reported for 1,1,2,2-tetrachloroethane and therefore no qualifiers were assigned for this compound.

Precision

Samples SV-1 IA-2 and SV-2 SS1 were identified as the parent samples of field duplicate samples DUP-1 and DUP-2. RPD values for positive target compounds in field duplicates were within laboratory limits, as were laboratory duplicate RPD values for sample SV-4 SS.

Instrument Performance and Calibration

Calibration parameters were within acceptable limits, with the following exception: target compound Freon-113 presented %D value above the method limit of 30%, with reduced sensitivity.

Freon-113 was qualified as estimated (UJ or J) in all SDG air samples, with indication of low bias due to reduced sensitivity relative to average ICAL RRF.

CALIBRATION AND QC SUMMARY
EPA METHOD TO-15, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Sample Preservation	All samples	Certified clean & leak-free canisters per method Acceptable pressures	None found	
Holding Times	All samples	Analysis within 30 days from collection	None found	
MS Tuning	Every 24 hours, prior to calibrations	Method TO-15, Sect. 10.4 and Table 3 criteria	None found	
Initial Calibration	Prior to sample analysis, and whenever continuing calibrations fail to meet acceptance criteria (minimum 5 levels)	RSD of mean RRF each target must be ≤ 30.0% Note: Linear regression is optional for targets w/ RSD >30%; r must be >0.99	None found	
Retention Time Windows	Each sample analyzed	Relative retention time (RRT) of each positive analyte within ± 0.06 of associated IS RRT	None found	
Continuing Calibration Verification (CCV)	Daily, before sample analysis, and after each successive 24 hours of sample analysis	Response %D for each Target must be ≤ 30.0% %D = (RRFc - RRFi) / RRFi *100	Freon-113 (-32.5%) CCV 04/28 13D1071-01-14; LCS, DUP-1, DUP-2	Flag Freon-113 in associated samples as estimated (UJ or J) with indication of low bias
		%D = (True - Found) / True Value *100	None found CCV 04/26 13D1071-(04,07,09,11)RE; LCS, (DUP-1,DUP-2)RE	n/a
Method Blank (certified clean canister; w/ ultra-pure zero air)	After ICV or CCV, before sample analysis, minimum once per 24-hour period	No analytes detected ≥ PQL* for method blank * PQL = 3x MDL	04/28/13 B071996-BLK1 All targets <PQL 13D1071-01-14; LCS, DUP-1, DUP-2	
			04/26/13 B071997-BLK1 EtOH <PQL 13D1071-(04,07,09,11)RE; LCS, (DUP-1,DUP-2)RE	

Notes:
[1] See DV report for details.

Data Reviewer: Chris Taylor
For: CDM-Smith / NYSDEC

CALIBRATION AND QC SUMMARY
EPA METHOD TO-15, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Surrogates	Note: per NYSDEC and method guidance, use of surrogates for TO-15 is not required	All surrogates recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	None found	
Internal Standards (IS)	Every sample, blank and standard	Retention time (RT): ± 20 seconds max from CCAL or average of ICAL	None found	
		IS area: max. ± 40% from corresponding CCAL	None found	
Laboratory Control Sample (LCS) aka Laboratory-Fortified Blank (LFB) aka Blank Spike	Once per each analytical batch (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	B071996-BS1 Acetone, IPA, MIBK, 1,1,2,2-tetrachloroethane out (>130%)	Flag positives only for noted compounds in associated samples as estimated (J) with indication of high bias
Field Duplicates	As submitted to laboratory and identified to reviewer	Not established; use lab-derived limits. Calculate RPD values and report.	DUP 1 SV-1 IA2	n/a All RPD values w/in lab limits
			DUP 2 SV-2 SS1	n/a All RPD values w/in lab limits
Lab Duplicates	As analyzed by laboratory	Not established; use lab-derived limits.	B071996-DUP1 SV-4 SS None found	

Notes:
[1] See DV report for details.

Data Reviewer: Chris Taylor
For: CDM-Smith / NYSDEC

Tables

Table 1
NYSDEC Work Assignment # D007621-6
Former Doro Dry Cleaners Site No. 9-15-238
Sub-Slab Soil Vapor, Indoor Air and Outdoor Ambient Air Sample Information Summary

Sample ID	Start Date	End Date	Start Time	Stop Time	Canister #	Regulator #	Helium Tracer Test Reading (ppm)	Start Vac (in. of Hg)	End Vac (in. of Hg)	PID Reading (ppm)
SV-5 SS	4/22/2013	4/23/2012	1338	1338	1627	3519	0	-29	-7.5	0
SV-5 IA	4/22/2013	4/23/2013	1339	1339	5300	3521	NA	-29.5	-7	NA
SV-5 OA	4/22/2013	4/23/2013	1340	1340	1343	3522	NA	-30	-6	NA
SV-4 SS	4/22/2013	4/23/2013	1304	1304	1805	3518	0	-30	-6.5	0
SV-4 IA	4/22/2013	4/23/2013	1305	1305	1340	3520	NA	-30	-6.5	NA
SV-4 OA	4/22/2013	4/23/2013	1306	1333	1649	3517	NA	-30	-3	NA
SV-2 SS1	4/22/2013	4/23/2013	1526	1526	1271	3345	0	-28.5	-7	0
SV-1 IA2	4/22/2013	4/23/2013	1538	1538	1813	3516	NA	-29.5	-7	NA
SV-1 SS2	4/22/2013	4/23/2013	1535	1535	1458	3514	0	-29	-5	0
Dup 1 (SV-1 IA2)	4/22/2013	4/23/2013	1535	1535	1843	3515	0	-29	-8	0
SV-2 OA	4/22/2013	4/23/2013	1545	1545	1105	3511	NA	-28	-4	NA
Dup 2 (SV-2 SS1)	4/22/2013	4/23/2013	1533	1533	1503	3513	0	-27	-5	0
SV-3 SS	4/22/2013	4/23/2013	1438	1438	1258	3524	0	-29	-30	0
SV-3 IA	4/22/2013	4/23/2013	1439	1439	1312	3346	NA	-30	-7	NA

Notes
IA - Indoor Air Sample
OA - Ambient Outdoor Air Sample
SS - Sub Slab Sample
NA - Not Applicable
PID - Photoionization Detector
PPM - Part per Million
in. of Hg - Inches of Mercury

Table 2
Vapor Sampling Results
Former Doro Dry Cleaners - Site No. 9-15-238
NYSDEC Work Assignment No. D007621-6

				Sample Identification	13D1071-01		13D1071-02		13D1071-03		13D1071-04		13D1071-05		13D1071-06		13D1071-07	
				Sample Location	SV-4 OA		SV-4 SS		SV-4 IA		SV-5 SS		SV-5 IA		SV-5 OA		SV-3 SS	
				Sample Date	23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13	
Chemical Name[1]	Indoor Air Statistical Value[2]	Outdoor Air Statistical Value[3]	Air Guideline Value[4]	Unit														
1,1,1-Trichloroethane	20.60	2.60	NL	ug/m^3	ND	U	ND	U	ND	U	5.40		7.10		ND	U	ND	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NL	NL	NL	ug/m^3	0.05	J	0.65	J	0.46	J	0.65	J	0.52	J	0.45	J	0.60	J
1,1-Dichloroethene	1.4	1.4	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	9.5	5.8	NL	ug/m^3	ND	U	3.70		0.40		2.80		0.46		0.22		3.80	
1,3,5-Trimethylbenzene	3.7	2.7	NL	ug/m^3	ND	U	0.99		ND	U	0.75		ND	U	ND	U	0.98	
1,3-Dichlorobenzene	2.4	2.2	NL	ug/m^3	ND	U	0.36		ND	U	0.31		ND	U	ND	U	0.45	
2-Butanone (MEK)	12	11.3	NL	ug/m^3	ND	U	ND		ND	U	ND	U	6.10		ND	U	ND	U
2-Hexanone (MBK)	NL	NL	NL	ug/m^3	ND	U	0.62		0.45		0.28		0.78		0.26		0.52	
4-Ethyltoluene	3.6	3	NL	ug/m^3	ND	U	0.78		ND	U	0.58		ND	U	ND	U	0.76	
4-Methyl-2-pentanone (MIBK)	6	1.9	NL	ug/m^3	ND	U	0.66	J	0.48	J	0.40	J	0.44	J	ND	U	0.58	J
Acetone	98.9	43.7	NL	ug/m^3	7.40	J	36.00	J	23.00	J	29.00	J	37.00	J	9.50	J	70.00	J
Benzene	9.4	6.6	NL	ug/m^3	0.42		0.64		0.38		0.58		0.44		0.36		0.70	
Carbon tetrachloride	1.3	0.7	NL	ug/m^3	0.47		0.51		0.46		0.45		0.46		0.41		0.29	
Chloroethane	1.1	1.2	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	1.1	0.6	NL	ug/m^3	ND	U	0.29		0.28		0.41		0.38		ND	U	ND	U
Chloromethane	3.7	3.7	NL	ug/m^3	1.30		1.50		1.50		1.30		1.30		1.40		1.40	
cis-1,2-Dichloroethene	1.9	1.8	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NL	NL	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane (Freon 12)	16.5	8.1	NL	ug/m^3	1.40		5.10		6.10		1.40		1.20		1.40		1.30	
Ethanol	210.0	57.0	NL	ug/m^3	4.50		210.00		220.00		360.00		500.00		8.40		170.00	
Ethyl Acetate	5.4	1.5	NL	ug/m^3	8.70		14.00		44.00		1.70		2.70		1.70		8.50	
Ethylbenzene	5.7	3.5	NL	ug/m^3	ND	U	1.40		0.31		0.96		0.30		ND	U	1.20	
Heptane	NL	NL	NL	ug/m^3	ND	U	0.63		ND	U	0.64		0.51		ND	U	0.65	
Hexachlorobutadiene	6.8	6.4	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Hexane*	10.2	6.4	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropanol	NL	NL	NL	ug/m^3	ND	U	14.00	J	27.00	J	25.00	J	76.00	J	ND	U	9.90	J
m,p-Xylene	22.2	12.8	NL	ug/m^3	0.07		4.40		0.76		3.00		0.73		ND	U	4.00	
Methylene chloride	10	6.1	60.00	ug/m^3	0.48		4.50		2.50		4.90		3.60		ND	U	3.60	
Naphthalene	5.1	4.9	NL	ug/m^3	ND	U	0.58		0.23		0.49		ND	U	ND	U	1.20	
o-Xylene	7.9	4.6	NL	ug/m^3	ND	U	1.90		0.28		1.40		0.26		ND	U	1.80	
Styrene	1.9	1.3	NL	ug/m^3	ND	U	0.25		0.18		0.38		0.42		ND	U	0.19	
Tetrachloroethene	15.9	6.5	100.00	ug/m^3	ND	U	0.74		0.38		ND	U	ND	U	ND	U	0.31	
Tetrahydrofuran	NL	NL	NL	ug/m^3	ND	U	0.12		ND	U	ND	U	ND	U	ND	U	0.17	
Toluene	43	33.7	NL	ug/m^3	0.46		5.80		1.80		7.10		4.80		0.58		6.30	
trans-1,2-Dichloroethene	NL	NL	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	4.2	1.3	5.00	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichlorofluoromethane (Freon 11)	18.1	4.3	NL	ug/m^3	0.16		3.40		3.10		1.40		1.20		0.95		1.20	
Vinyl Chloride	1.9	1.8	NL	ug/m^3	ND	U	0.11		ND	U	0.20		ND	U	ND	U	0.27	

Notes:

1 - EPA Method TO-15

2 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Appendix C Table C2 - EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® cainster method, 90th percentile for indoor air.

3 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Appendix C Table C2 - EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® cainster method, 90th percentile for outdoor air.

4 - Final NYSDOH Soil Vapor Intrusion Guidance, October 2006. Table 3.1 Air Guideline Values Derived by the NYSDOH.

* - Value for n-Hexane

Acronyms:

bgs - below ground surface NL - not listed ug/m^3- microgram per meters cubed

Lab Qualifiers:

U - non-detect

J - estimated

Color Legend:

Yellow - Exceedance

Table 2
Vapor Sampling Results
Former Doro Dry Cleaners - Site No. 9-15-238
NYSDEC Work Assignment No. D007621-6

				Sample Identification	13D1071-08		13D1071-09		13D1071-10		13D1071-11		13D1071-13	
				Sample Location	SV-3 IA		SV-2 SS1		SV-1 IA2		SV-1 SS2		SV-2 OA	
				Sample Date	23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13		23-Apr-13	
Chemical Name[1]	Indoor Air Statistical Value[2]	Outdoor Air Statistical Value[3]	Air Guideline Value[4]	Unit										
1,1,1-Trichloroethane	20.60	2.60	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NL	NL	NL	ug/m^3	0.47	J	0.53	J	0.51	J	0.55	J	0.51	J
1,1-Dichloroethene	1.4	1.4	NL	ug/m^3	ND	U	ND	U	ND	U	0.16		ND	U
1,2,4-Trimethylbenzene	9.5	5.8	NL	ug/m^3	0.36		10.00		11.00		6.20		ND	U
1,3,5-Trimethylbenzene	3.7	2.7	NL	ug/m^3	ND	U	2.60		2.60		1.60		ND	U
1,3-Dichlorobenzene	2.4	2.2	NL	ug/m^3	ND	U	0.28		ND	U	0.22		ND	U
2-Butanone (MEK)	12	11.3	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone (MBK)	NL	NL	NL	ug/m^3	0.71		1.30		1.20		ND	U	ND	U
4-Ethyltoluene	3.6	3	NL	ug/m^3	ND	U	2.90		2.80		1.70		ND	U
4-Methyl-2-pentanone (MIBK)	6	1.9	NL	ug/m^3	ND	U	0.76		1.10	J	ND	U	ND	U
Acetone	98.9	43.7	NL	ug/m^3	36.00	J	34.00	J	23.00	J	28.00	J	8.60	J
Benzene	9.4	6.6	NL	ug/m^3	0.57		8.60		7.90		5.90		0.39	
Carbon tetrachloride	1.3	0.7	NL	ug/m^3	0.45		0.30		0.43		0.41		0.45	
Chloroethane	1.1	1.2	NL	ug/m^3	ND	U	0.26		ND	U	ND	U	ND	U
Chloroform	1.1	0.6	NL	ug/m^3	ND	U	0.18		ND	U	ND	U	ND	U
Chloromethane	3.7	3.7	NL	ug/m^3	1.30		1.60		1.40		1.20		1.30	
cis-1,2-Dichloroethene	1.9	1.8	NL	ug/m^3	ND	U	6.80		4.50		4.20		ND	U
Cyclohexane	NL	NL	NL	ug/m^3	ND	U	3.30		3.10		2.10		ND	U
Dichlorodifluoromethane (Freon 12)	16.5	8.1	NL	ug/m^3	1.30		1.40		1.30		1.40		1.50	
Ethanol	210.0	57.0	NL	ug/m^3	34.00		160.00		79.00		170.00		5.10	
Ethyl Acetate	5.4	1.5	NL	ug/m^3	6.80		2.60		2.50		4.00		2.10	
Ethylbenzene	5.7	3.5	NL	ug/m^3	0.28		7.90		7.70		5.10		ND	U
Heptane	NL	NL	NL	ug/m^3	0.40		9.50		9.60		6.50		ND	U
Hexachlorobutadiene	6.8	6.4	NL	ug/m^3	ND	U	ND	U	ND	U	ND	U	ND	U
Hexane*	10.2	6.4	NL	ug/m^3	ND	U	28.00		26.00		20.00		ND	U
Isopropanol	NL	NL	NL	ug/m^3	3.50	J	8.00	J	4.30	J	7.20	J	ND	U
m,p-Xylene	22.2	12.8	NL	ug/m^3	0.85		29.00		28.00		19.00		0.38	
Methylene chloride	10	6.1	60.00	ug/m^3	1.40		2.40		2.20		3.10		2.20	
Naphthalene	5.1	4.9	NL	ug/m^3	5.30		0.55		1.40		0.60		ND	U
o-Xylene	7.9	4.6	NL	ug/m^3	0.34		10.00		10.00		6.50		0.16	
Styrene	1.9	1.3	NL	ug/m^3	0.15		0.16		ND	U	ND	U	ND	U
Tetrachloroethene	15.9	6.5	100.00	ug/m^3	ND	U	190.00		200.00		150.00		0.73	
Tetrahydrofuran	NL	NL	NL	ug/m^3	ND	U	0.97		0.31		0.13		ND	U
Toluene	43	33.7	NL	ug/m^3	3.00		51.00		46.00		34.00		0.80	
trans-1,2-Dichloroethene	NL	NL	NL	ug/m^3	ND	U	0.26		0.17		0.19		ND	U
Trichloroethene	4.2	1.3	5.00	ug/m^3	ND	U	5.90		5.40		4.50		ND	U
Trichlorofluoromethane (Freon 11)	18.1	4.3	NL	ug/m^3	1.00		10.00		12.00		8.70		1.10	
Vinyl Chloride	1.9	1.8	NL	ug/m^3	ND	U	0.33		0.13		0.17		ND	U

Notes:

1 - EPA Method TO-15

2 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Appendix C Table C2 - EPA Building assessment and survey evaluation (BASE) database, SUMMA® cainster method, 90th percentile for indoor air.

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4 - Final NYSDOH Soil Vapor Intrusion Guidance, October 2006. Table 3.1 Air Guideline Values Derived by the NYSDOH.

* - Value for n-Hexane

Acronyms:

bgs - below ground surface NL - not listed ug/m^3- microgram per meters cubed

Lab Qualifiers:

U - non-detect

J - estimated

Color Legend:

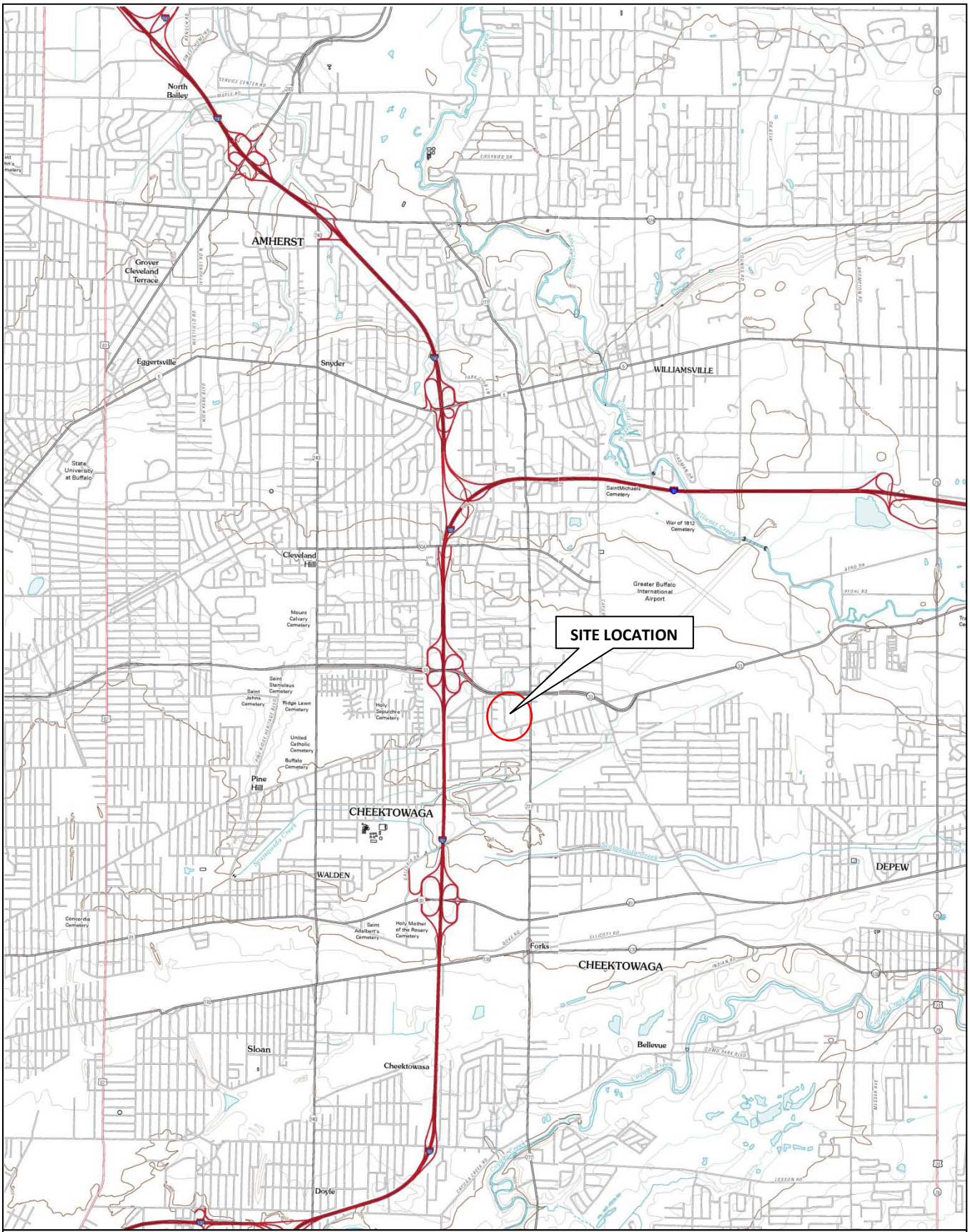
Yellow - Exceedance

Table 3
NYSDEC Work Assignment # D007621-6
Former Doro Dry Cleaners Site No. 9-15-238
Soil Vapor Intrusion Recommendations Based on NYSDOH Decision Matrices[1]

Location	Compound	Sub-Slab Air Concentrations	Indoor Air Concentrations	Outdoor Air Concentrations[2]	Action Recommended[3]	Final Action Recommended[3]
SV-1 Front Building, Cheektowaga, New York	PCE	150	200	0.73	Mitigation	Based on PCE results, mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
	TCE	4.5	5.4	ND	Reasonable Action	
	Carbon Tetrachloride	0.41	0.43	0.45	Reasonable Action	
	1,1,1-TCA	ND	ND	ND	No Further Action	
SV-2 Rear Building, Cheektowaga, New York	PCE	190	200	0.73	Mitigation	Based on PCE and TCE mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
	TCE	5.9	5.4	ND	Mitigation	
	Carbon Tetrachloride	0.3	0.43	0.45	Reasonable Action	
	1,1,1-TCA	ND	ND	ND	No Further Action	
SV-3 Cheektowaga, New York	PCE	0.31	ND	0.73	No Further Action	Based on carbon tetrachloride results reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.
	TCE	ND	ND	ND	No Further Action	
	Carbon Tetrachloride	0.29	0.45	0.45	Reasonable Action	
	1,1,1-TCA	ND	ND	ND	No Further Action	
SV-4 Cheektowaga, New York	PCE	0.74	0.38	ND	No Further Action	Based on carbon tetrachloride results reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.
	TCE	ND	ND	ND	No Further Action	
	Carbon Tetrachloride	0.51	0.46	0.47	Reasonable Action	
	1,1,1-TCA	ND	ND	ND	No Further Action	
SV-5 Cheektowaga, New York	PCE	ND	ND	ND	No Further Action	Based on carbon tetrachloride and 1,1,1-TCA results reasonable and practical action should be taken to identify source(s) and reduce exposure, as concentrations are likely due to sources other than soil vapor intrusion.
	TCE	ND	ND	ND	No Further Action	
	Carbon Tetrachloride	0.45	0.46	0.41	Reasonable Action	
	1,1,1-TCA	5.4	7.1	ND	Reasonable Action	

Notes:
1. "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", NYSDOH, October 2006
2. Outdoor ambient air sample SV-2 OA was used for comparison with SV-1, SV-2, and SV-3 sub-slab and indoor air samples
3. Action levels based on NYSDOH Matrix 1 for TCE and carbon tetrachloride and Matrix 2 for PCE and 1,1,1-TCA,
All Concentrations in $\mu g/m^3$
PCE = Tetrachloroethene
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
ND = indicates the compound was not detected at or above the quanititation limit

Figures



Source: USGS Topography Map, Buffalo, NY, 2010.

Site Location Map

*Map is not to scale

Figure 1
Former Doro Dry Cleaners
Cheektowaga, NY

CDM Smith

NOTES

1) HORIZONTAL CONTROL BASED UPON NEW YORK STATE PLANE COORDINATE SYSTEM WEST ZONE (NAD 83/2011)

2) VERTICAL CONTROL BASED UPON NAVD 88

3) NO SOIL SAMPLES WERE COLLECTED FROM LOCATIONS B-39, B-43, B-42, AND B-37 AS PER DIRECTION FROM NYSDEC PROJECT MANAGER

4) NO SOIL SAMPLE WAS COLLECTED FROM B-36 LOCATION, GROUNDWATER ONLY

SV-3

SV-2

SV-1

N

Legend

⊗ Soil Vapor Sampling Locations

Sample Location Plan

75 37.5 0 75 Feet

Figure 2
Former Doro Dry Cleaners
Cheektowaga, NY

CDM Smith

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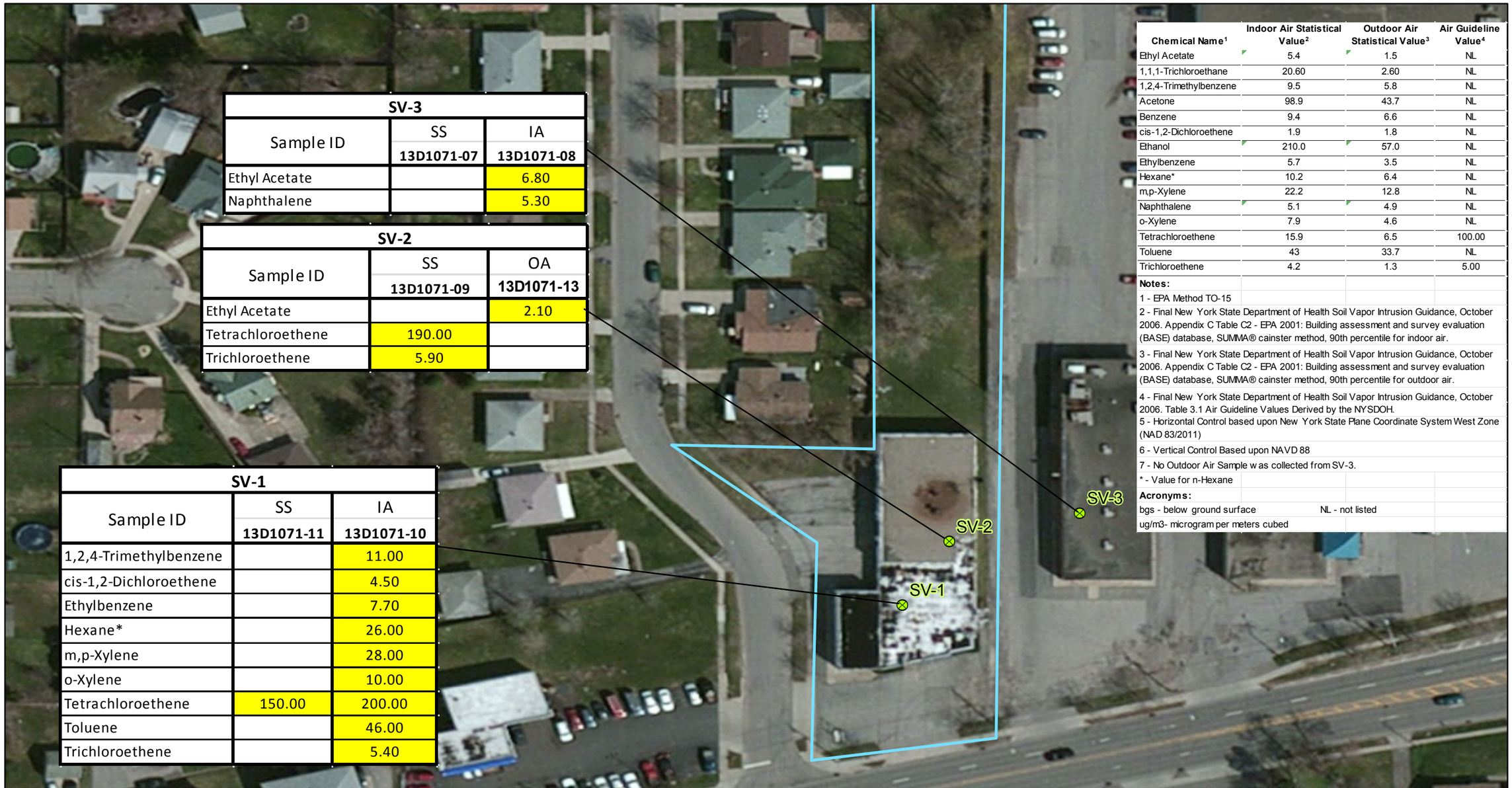

SV-3		
Sample ID	SS	IA
	13D1071-07	13D1071-08
Ethyl Acetate		6.80
Naphthalene		5.30

SV-2		
Sample ID	SS	OA
	13D1071-09	13D1071-13
Ethyl Acetate		2.10
Tetrachloroethene	190.00	
Trichloroethene	5.90	

SV-1		
Sample ID	SS	IA
	13D1071-11	13D1071-10
1,2,4-Trimethylbenzene		11.00
cis-1,2-Dichloroethene		4.50
Ethylbenzene		7.70
Hexane*		26.00
m,p-Xylene		28.00
o-Xylene		10.00
Tetrachloroethene	150.00	200.00
Toluene		46.00
Trichloroethene		5.40

Chemical Name[1]	Indoor Air Statistical Value[2]	Outdoor Air Statistical Value[3]	Air Guideline Value[4]
Ethyl Acetate	5.4	1.5	NL
1,1,1-Trichloroethane	20.60	2.60	NL
1,2,4-Trimethylbenzene	9.5	5.8	NL
Acetone	98.9	43.7	NL
Benzene	9.4	6.6	NL
cis-1,2-Dichloroethene	1.9	1.8	NL
Ethanol	210.0	57.0	NL
Ethylbenzene	5.7	3.5	NL
Hexane*	10.2	6.4	NL
m,p-Xylene	22.2	12.8	NL
Naphthalene	5.1	4.9	NL
o-Xylene	7.9	4.6	NL
Tetrachloroethene	15.9	6.5	100.00
Toluene	43	33.7	NL
Trichloroethene	4.2	1.3	5.00

Notes:

1 - EPA Method TO-15

2 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Appendix C Table C2 - EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® cainster method, 90th percentile for indoor air.

3 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Appendix C Table C2 - EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® cainster method, 90th percentile for outdoor air.

4 - Final New York State Department of Health Soil Vapor Intrusion Guidance, October 2006. Table 3.1 Air Guideline Values Derived by the NYSDOH.

5 - Horizontal Control based upon New York State Plane Coordinate System West Zone (NAD 83/2011)

6 - Vertical Control Based upon NAVD 88

7 - No Outdoor Air Sample was collected from SV-3.

* - Value for n-Hexane

Acronyms:

bgs - below ground surface NL - not listed

ug/m3- microgram per meters cubed

N

Legend

- SVI Locations
- Site Boundary

Vapor Intrusion Analytical Results

75 37.5 0 75 Feet

Figure 3
Former Doro Dry Cleaners
Cheektowaga, NY

CDM Smith

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