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NMED
Hazardous Waste Bureau

Mr. John E. Kieling, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

Subject: Transmittal of the Semi-Annual Volatile Organic Compound, Hydrogen, and Methane Data Summary Report

Dear Mr. Kieling:

The purpose of this letter is to provide you with the Semi-Annual Volatile Organic Compound, Hydrogen, and Methane Data Summary Report for the reporting period January 1, 2014, through June 30, 2014. This report is required by Part 4, Sections 4.6.2.2 and 4.6.5.2 of the Waste Isolation Pilot Plant Hazardous Waste Facility Permit No. NM4890139088-TSDF.

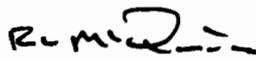
In addition, an errata sheet for the Semi-Annual Volatile Organic Compound, Hydrogen, and Methane Data Summary Report for the reporting period January 1, 2013, through June 30, 2013, is enclosed. During the annual review of the Annual Site Environmental Report for 2013, it was discovered that a correction needed to be made to a value in Table 2 of the semi-annual report. The maximum running annual average for methylene chloride was shown as 4.83 parts per billion by volume (ppbv) and should be shown as 5.18 ppbv. Both levels are far below the concentration of concern of 1,930 ppbv.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

If you have any questions regarding this data transmittal, please contact Ms. Susan McCauslin at (575) 234-7349.

Sincerely,


Jose R. Franco, Manager
Carlsbad Field Office


Robert L. McQuinn, Project Manager
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**SEMI-ANNUAL VOC, HYDROGEN, AND
METHANE DATA SUMMARY REPORT
FOR
REPORTING PERIOD
January 1, 2014 through June 30, 2014**

United States Department of Energy

Waste Isolation Pilot Plant
Carlsbad, New Mexico

WIPP Hazardous Waste Facility Permit
New Mexico Environment Department
Permit Number NM4890139088-TSDF

September 2014



**Semi-Annual VOC, Hydrogen, and Methane Data Summary Report for
Reporting Period January 1, 2014 through June 30, 2014
DOE/WIPP-14-3536 Rev. 0**

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LIST OF ABBREVIATIONS, ACRONYMS, AND UNITS

ATL	Eurofins Air Toxics Inc., Laboratory
CAS	Chemical Abstracts Service
CEMRC	Carlsbad Environmental Monitoring & Research Center
CFR	Code of Federal Regulations
CH	contact-handled
COC	concentration of concern
DOE	U.S. Department of Energy
EDD	electronic data deliverable
HEPA	high-efficiency particulate air
HWDU	hazardous waste disposal unit (panel)
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
MRL	method reporting limit
N/A	not applicable
NCR	nonconformance report
NMED	New Mexico Environment Department
Permit	Hazardous Waste Facility Permit NM4890139088-TSDF
PPA	property protection area
ppbv	parts per billion by volume
ppmv	parts per million by volume
QA	quality assurance
QC	quality control
RH	remote-handled
RPD	relative percent difference
TCE	trichloroethylene
TIC	tentatively identified compound
TRU	transuranic
UCP	Underground Compliance Plan
VOC	volatile organic compound
WIPP	Waste Isolation Pilot Plant

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1.0 INTRODUCTION

This report is submitted by the U.S. Department of Energy (DOE) Carlsbad Field Office and Nuclear Waste Partnership LLC (the Permittees) in accordance with Permit Part 4, Permit sections 4.6.2.2 and 4.6.5.2 of the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit NM4890139088-TSDF (Permit). This report documents the Volatile Organic Compound (VOC) Monitoring Program and Hydrogen and Methane Monitoring Program results for the 6-month period of January 1, 2014 through June 30, 2014.

Volatile Organic Compound and, hydrogen and methane monitoring, as required by Permit Part 4 and Attachments N and N1, has not been conducted since early February due to the occurrence of two separate events in the WIPP underground, a fire occurred on February 5th and an event that resulted in the release of radioactive material on February 14th. Monitoring has not been possible for the remainder of the reporting period due to inaccessibility of the portions of the underground necessary to conduct sampling. The last samples from the underground for this reporting period were collected on February 4.

The Permittees initiated post-event VOC sampling activities at surface locations at the WIPP facility on February 12. Surface VOC monitoring is being evaluated to determine its feasibility in lieu of collecting Repository VOC Monitoring samples. Per New Mexico Environment Department (NMED) Administrative Order dated February 27, 2014, the Permittees submitted weekly reports to NMED showing analytical data results for surface VOC monitoring samples. Report submission was changed to bi-weekly per NMED Administrative Order dated May 12, 2014. The May 12 Administrative Order also required that the Permittees begin monitoring for the VOC trichloroethylene (TCE) as a target analyte and submit an appropriate permit modification request to add TCE to the Permit list of target analytes. Room based limits and action levels for TCE prescribed by the May 12, 2014 Administrative Order are included in tables 3 and 4. However, quality assurance (QA) objectives for accuracy, precision, sensitivity, and completeness, and a concentration of concern (COC) for Repository VOC Monitoring were not assigned for TCE. This report includes the results of the post-event surface sampling activities from February 12 through the end of this reporting period (see attachment 8) and includes TCE as a target analyte in attachments reporting target VOC results.

The Permittees have prepared an Underground Compliance Plan (UCP) that provides the Permittees' approach to restoring normal monitoring operations in the underground. The UCP was submitted to the NMED for review and comment on June 26, 2014. In the UCP, the Permittees address the inability to currently take underground measurements and provide a projected date for resuming monitoring in the underground. Each of the Permit requirements is addressed in the UCP to include a projected date for resumption if that date is known. Otherwise, future revisions of the UCP will provide definitive resumption dates when available.

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1.1 Monitoring Programs

The VOC Monitoring Program was originally designed to monitor transuranic (TRU) mixed waste-related VOC concentrations in ventilation exhaust air (Repository VOC Monitoring). Monitoring for VOCs from within disposal rooms of open/active panels (Disposal Room VOC Monitoring) was later incorporated, as well as monitoring of Room 1 within specific filled panels (Ongoing Disposal Room VOC Monitoring). Sampling for each program was in progress at the start of the reporting period but has not been performed since the February events when sampling locations became inaccessible. In lieu of collecting Repository VOC Monitoring samples, post-event surface VOC sampling is being used to evaluate the feasibility of using these data to identify VOC exposure to the non-waste surface workers at the WIPP facility Training Building. One location chosen for monitoring is near the Training Building, the other location is on the property protection area (PPA) fence line. Samples collected at these locations may contain VOCs exhausted from the underground exhaust ventilation air to the environment through high-efficiency particulate air (HEPA) filters used to mitigate the release of particulate. Results for surface VOC sampling activities are included in attachment 8.

The Hydrogen and Methane Monitoring Program was designed to monitor hydrogen and methane concentrations in Panels 3 through 8 as specified in Permit Part 4, Permit section 4.6.5, and Permit Attachment N1. This monitoring was implemented for Panel 3 in April 2008 and for Panel 4 in May 2009. Monitoring was not initiated in Panel 5 as it was filled in July 2011 and an explosion-isolation wall was constructed in the panel. Sampling from Panels 3 and 4 was ongoing at the start of the reporting period, but has not been performed since the February events when sampling locations became inaccessible.

1.2 Reporting Limits and Qualifier Descriptions

The following terms apply to this report:

Method detection limit (MDL) – The MDL is the limit at which concentrations are measured and reported with 99 percent confidence that the analyte concentration is greater than zero. The subcontract laboratory, Carlsbad Environmental Monitoring & Research Center (CEMRC), reported MDLs for target VOCs, including trichloroethylene, in the range of 0.02 to 0.06 parts per billion by volume (ppbv). Some co-located surface VOC monitoring samples were also sent to Eurofins Air Toxics Inc. Laboratory (ATL) to evaluate laboratory sensitivity and analytical options. The MDLs reported by ATL were in the range of 0.001 ppbv to 0.05 ppbv. The CEMRC reported hydrogen and methane MDLs for this reporting period in the range of 14.87 to 16.29 parts per million by volume (ppmv).

Method reporting limit (MRL) – The MRL is the lowest concentration that can be reliably measured and is determined by the analytical laboratory. For this reporting period, the analytical laboratory determination for MRLs is the nominal concentration of the lowest standard used for calibration. The CEMRC analyzed samples collected in the underground and reported a MRL of 1 ppbv for target VOCs including trichloroethylene.

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The CEMRC initially used the same MRL for target VOCs in surface VOC monitoring samples, but it was immediately recognized that the MRLs needed to be lower since concentrations of VOCs seen in these samples were very low. The Permittees requested that the subcontract laboratory (i.e., CEMRC) work to achieve lower MRLs. The CEMRC revised the analytical methodology for surface VOC samples and reported a MRL of 0.2 ppbv for target VOCs including trichloroethylene. Some co-located surface VOC monitoring samples were also sent to ATL to evaluate laboratory sensitivity and analytical options. The MRLs are included in the ATL data set. The MRL reported by CEMRC for hydrogen and methane is 50 ppmv. The MRLs presented here are for samples not requiring dilutions. The analytical methods allow for adjusting the MRLs to compensate for dilutions (e.g., a MRL of 1 ppbv is corrected to 100 ppbv for a VOC sample diluted by a factor of 100, a MRL of 0.2 ppbv is corrected to 0.4 ppbv for a surface VOC sample diluted by a factor of two, and a MRL of 50 ppmv is corrected to 100 ppmv for a hydrogen and methane sample diluted by a factor of two). The MRLs reported by CEMRC for the analysis of underground samples met the requirements as specified in Permit Attachment N, table N-2, and shown in table 1.

Table 1 – VOC Monitoring Program – Target VOCs and Required MRLs

Target Compound	Required Repository MRL (ppbv)	Required Disposal Room MRL (ppbv)
Carbon Tetrachloride	2	500
Chlorobenzene	2	500
Chloroform	2	500
1,1-Dichloroethylene	5	500
1,2-Dichloroethane	2	500
Methylene Chloride	5	500
1,1,2,2-Tetrachloroethane	2	500
Toluene	5	500
1,1,1-Trichloroethane	5	500
Trichloroethylene	N/A	N/A

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Required MRLs were not assigned in the Administrative Order; however, the Permittees specified MRLs in their statement of work with CEMRC.

ppbv = parts per billion by volume

MRL = maximum method reporting limit for undiluted samples

Qualifiers (data flags) may be used for data and are reflected in reports, as appropriate. These qualifiers are described as follows;

QUALIFIER DESCRIPTIONS

- U Indicates target analyte was analyzed for, but not detected above, MDL.
- J Estimated value – the target analyte was detected at a concentration below the MRL but above the MDL.
- R Sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample. This qualifier may also be used for data anomalies.

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- Q Results are useable, but were not associated with analyses that met QA/quality control (QC) requirements for precision, accuracy, or completeness.
- NJ Presumptive evidence of the presence of the compound at an estimated quantity. Only used for tentatively identified compounds (TICs).

2.0 REPOSITORY VOC MONITORING

Sampling frequency for Repository VOC Monitoring is twice per week for the two air sampling locations designated as Repository VOC Monitoring stations, in accordance with Permit Attachment N, section N-3. This sampling was ongoing at the start of the reporting period, but has not been performed since the February events when the sampling locations became inaccessible. The monitoring stations are identified as Station VOC-A, sample inlet located in the E-300 drift downstream from the Underground Hazardous Waste Disposal Unit (Underground HWDU) designated as Panel 1, and Station VOC-B, sample inlet located upstream from the most recently activated Underground HWDU.

The Permittees did not anticipate that the use of location Station VOC-A would change. However, because of the February 14 event, the Permittees will re-evaluate the use of the location due to the likely presence of radioactive contamination. Any proposal for new sampling locations will be presented to the NMED in an appropriate Permit modification request.

Concentrations found at Station VOC-A represent both the VOCs in the mine air not attributable to disposed TRU mixed waste plus any releases of VOCs from the TRU mixed waste in the repository. As new Underground HWDUs are opened and closed, Station VOC-A will continue to reflect non-waste-emplacement-related VOCs plus TRU mixed waste emissions from the current open/active Underground HWDUs and closed/filled Underground HWDUs.

Detections of VOCs for Station VOC-B represent the concentrations in the ventilation air found in the mine before passing through the areas of the repository containing TRU mixed waste. The VOCs detected for this location are considered to be non-waste-related concentrations. As TRU mixed waste is placed in new Underground HWDUs, the location of Station VOC-B is changed as needed to sample the air upstream from Underground HWDUs that are receiving TRU mixed waste. For this reporting period, waste disposal activities took place in the HWDUs designated as Panels 6 and 7. The location of Station VOC-B was in the inlet ventilation air of Panel 7 in S-2520 for samples collected during this reporting period.

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The measured concentrations of Permit-specified target analytes collected at Stations VOC-A and VOC-B are normalized to assess the concentration of VOCs attributable to the TRU mixed waste disposed of at the WIPP facility (i.e., Underground HWDU VOC emission concentration). Section 2.2 describes the normalization process and how the running annual averages of Underground HWDU VOC emission concentrations are calculated.

For repository VOC monitoring, the target compounds and their respective COCs, as specified in Permit Part 4, table 4.6.2.3, are shown in table 2. The Permittees are required to notify the Secretary of the NMED, as specified in Permit Part 4, Permit section 4.6.2.3, should emission concentrations between the two stations or the running annual average concentrations exceed the Permit-specified COC.

2.1 Repository VOC Monitoring Results

The repository VOC monitoring results for this reporting period are discussed in section 2.3 and summarized in table 2. The individual monitoring results for original samples, emission concentrations, and comparisons to the COC for each sample set collected at Stations VOC-A and VOC-B are provided in attachment 1.

2.2 Normalization and Usage Rules for Repository VOC Monitoring Reporting

Analytical results not qualified as "U" are normalized to the typical operating conditions, in accordance with Permit Attachment N, section N-3e(1). The normalized concentration of each target VOC detected at Station VOC-B is subtracted from the normalized concentration detected at Station VOC-A, and the difference is the Underground HWDU VOC emission concentration. The resulting concentration for each target analyte is compared to its COC listed in Permit Part 4, table 4.6.2.3.

Results qualified as "U" indicate that the laboratory's quantitative results were not greater than the MDL and are assigned a value of zero for determination of emission concentrations.

Analytical results qualified as "J" indicate that the laboratory's quantitative results were at a concentration greater than the MDL but less than the laboratory's MRL. Results qualified as "J" are normalized but are considered to be estimated values and are assigned a value of zero for determination of emission concentrations.

When the normalized concentration at Station VOC-A is less than Station VOC-B, the emission concentration is reported as zero.

The running annual average concentration for each target VOC is determined, in accordance with Permit Attachment N, section N-3e(1), by averaging the Underground HWDU VOC emission concentration for each target VOC for each sampling event with concentrations for the previous 12 months. The running annual average concentrations are compared to the COC listed in Permit Part 4, table 4.6.2.3, and shown in table 2.

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2.3 Discussion of Repository VOC Monitoring Results

For the reporting period, there were 9 sample sets (18 original samples from Stations VOC-A and VOC-B) analyzed for each of the target compounds. The emission concentration for each individual sample set was determined and compared to the COC and reported in attachment 1. Table 2 and attachment 1 show that no exceedances of a COC occurred for the nine individual sample sets.

Table 2 also shows that during this reporting period, none of the target VOC running annual averages exceeded the COC. Remedial action, as described in Permit Part 4, Permit section 4.6.2.4, was not required during this reporting period.

One field duplicate sample was collected at each repository VOC monitoring station, for a total of two field duplicates. Normalized results are reported in attachment 6D and field precision for the VOC Monitoring Program is discussed in section 7.1.

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Table 2 – Summary of Repository VOC Monitoring Results

Target Compound	Running Annual Average Max. Value (ppbv)*	Emission Concentration Max. Value (ppbv)	COC (ppbv)	Total Exceedances
Carbon Tetrachloride	382.45	825.73	960	0
Chlorobenzene	0	0	220	0
Chloroform	34.09	73.24	180	0
1,1-Dichloroethylene	0	0	100	0
1,2-Dichloroethane	0	0	45	0
Methylene Chloride	4.65	9.66	1,930	0
1,1,2,2-Tetrachloroethane	0	0	50	0
Toluene	0	0	190	0
1,1,1-Trichloroethane	54.42	104.82	590	0
Trichloroethylene	131.70	341.19	N/A	N/A

*The running annual average is for the 12 months prior to and including the final sample collected on February 4, 2014. Subsequent surface samples have not been averaged in since they represent a different sampling configuration than the samples taken at Station VOC-A.

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. A COC was not assigned for trichloroethylene in the Administrative Order.

ppbv = parts per billion by volume
COC = concentration of concern

3.0 DISPOSAL ROOM VOC MONITORING

Collection and analysis of VOC samples from each room containing waste in an active Underground HWDU was implemented on November 20, 2006. Sampling frequency is conducted in accordance with Permit Attachment N, section N-3d(2). This sampling was ongoing at the start of the reporting period, but has not been performed since the February events when sampling locations became inaccessible. For this reporting period, sampling frequency was once every two weeks for sampling locations up until the time they became inaccessible. Room-based limits and action levels, as specified in Permit Part 4, tables 4.4.1 and 4.6.3.2 respectively, are shown in table 3. Sample locations are determined in accordance with Permit Attachment N, section N-3a(2). Results from disposal room VOC monitoring samples are presented in section 3.1 and are compared to the action levels and room-based limits.

The number of disposal room VOC monitoring locations increases as waste emplacement proceeds from room to room. As waste is placed into a room, VOC monitoring in that room commences at the exhaust end of the room. After the room is filled, VOC monitoring begins at a second location in that room at the inlet side. Rooms within an Underground HWDU that receive waste are actively monitored until waste emplacement in the Underground HWDU is complete. At that point, VOC monitoring in that Underground HWDU will be reduced to Room 1 (i.e., Ongoing Disposal Room VOC Monitoring) unless an explosion-isolation wall is installed in the panel. Sample location data are identified by the source panel number, room number, and intake (I) or exhaust (E) function. For example, the Panel 6 Room 7 exhaust location is P6R7E.

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3.1 Disposal Room VOC Monitoring Results

During this reporting period, 17 original samples (20 total samples) were collected for Disposal Room VOC Monitoring in Panels 6 and 7. Original sample results were compared to the levels as shown in table 3 to determine if any action levels or room-based limits were exceeded. Associated data for original samples are reported in attachment 2. The original sample results for Panels 6 and 7 are summarized in table 3. Results for field duplicate samples are reported in attachment 6D and field precision for the VOC Monitoring Program is discussed in section 7.1.

Table 3 – Summary of Disposal Room VOC Monitoring Results

Target Compound	Maximum Detected Value (ppmv)	Location of Maximum Detected Value	50% Action Level (ppmv)	95% Action Level (ppmv)	Room-based Limits (ppmv)	Total Exceedances
Panel 6						
Carbon Tetrachloride	2,440	P6R7E	4,813	9,145	9,625	0
Chlorobenzene	<MDL	N/A	6,500	12,350	13,000	0
Chloroform	140.5	P6R7E	4,965	9,433	9,930	0
1,1-Dichloroethylene	<MDL	N/A	2,745	5,215	5,490	0
1,2-Dichloroethane	<MDL	N/A	1,200	2,280	2,400	0
Methylene Chloride	16.53J	P6R7E	50,000	95,000	100,000	0
1,1,2,2-Tetrachloroethane	<MDL	N/A	1,480	2,812	2,960	0
Toluene	2.76J	P6R7E	5,500	10,450	11,000	0
1,1,1-Trichloroethane	597.6	P6R7E	16,850	32,015	33,700	0
Trichloroethylene	1.883	P6R7E	24,000	45,600	48,000	0
Panel 7						
Carbon Tetrachloride	<1	P7R7E	4,813	9,145	9,625	0
Chlorobenzene	<MDL	N/A	6,500	12,350	13,000	0
Chloroform	<1	P7R7E	4,965	9,433	9,930	0
1,1-Dichloroethylene	<MDL	N/A	2,745	5,215	5,490	0
1,2-Dichloroethane	<MDL	N/A	1,200	2,280	2,400	0
Methylene Chloride	<1	P7R7E	50,000	95,000	100,000	0
1,1,2,2-Tetrachloroethane	<1	P7R7E	1,480	2,812	2,960	0
Toluene	<1	P7R7E	5,500	10,450	11,000	0
1,1,1-Trichloroethane	<1	P7R7E	16,850	32,015	33,700	0
Trichloroethylene	<1	P7R7E	24,000	45,600	48,000	0

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

ppmv = parts per million by volume

MDL = method detection limit

J = Estimated value, below method reporting limits (MRL), but above method detection limits (MDL)

N/A = not applicable

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3.2 Discussion of Disposal Room VOC Monitoring Results

During this reporting period, Panels 6 and 7 received TRU waste. The highest concentration for any compound in any sample was carbon tetrachloride at a maximum value of 2,440 ppmv (table 3). Maximum concentrations were below the 50 percent action level for each compound. Data were validated in accordance with Permit Attachment N, section N-5d.

3.3 Waste Disposal Activities

Waste disposal activities occurred in the Underground HWDUs designated as Panels 6 and 7 during this reporting period. Waste disposal progress determines which room-based VOC monitoring locations are sampled. When waste is initially emplaced in a room, it is subject to monitoring at one location (exhaust side). When waste disposal activities are complete in the disposal room, the exhaust side continues to be monitored and the inlet side is added to the sampling schedule. On January 1, 2014, active contact-handled (CH) TRU mixed waste emplacement was occurring in Panel 6 Room 1, and active remote-handled (RH) TRU mixed waste emplacement was occurring in Panel 7 Room 7. As of January 1, 2014, Panel 6 Rooms 7, 6, 5, 4, 3, and 2 each had two monitoring locations (exhaust and inlet), while Panel 6 Room 1 and Panel 7 Room 7 had one monitoring location (exhaust). Sampling in Panel 6 was terminated during this reporting period when Room 1 of Panel 6 was filled on January 22. The last samples from Panel 6 were collected on January 15. On February 4, 2014, active CH TRU mixed waste emplacement was occurring in Panel 7 Room 7, and active RH TRU mixed waste emplacement was occurring in Panel 7 Room 6. As of February 4, 2014, Panel 7 Rooms 7 and 6 each had one monitoring location (exhaust). Since the February events, sampling has not been performed due to the inaccessibility of the sampling locations.

4.0 ONGOING DISPOSAL ROOM VOC MONITORING

After completion of waste emplacement, monitoring for VOCs in Room 1 of Panels 3 through 8 will occur until final panel closure, unless an explosion-isolation wall is installed in the panel per Permit Attachment N, section N-3a(3). This Ongoing Disposal Room VOC Monitoring was conducted in Panels 3 and 4 during this reporting period. Monitoring was not instituted in Panel 5 as it was filled in July 2011 and an explosion-isolation wall was constructed in the panel. Monitoring was conducted at the exhaust side of Room 1 in Panels 3 and 4 at the required frequency (i.e., once per month) until the sampling locations became inaccessible due to the two February events. Only one sample in Panel 3 and two samples in Panel 4 were collected. A field duplicate sample was collected with each original sample. Sample location data are identified by the source panel number, room number, and intake (I) or exhaust (E) side. For example, the Panel 3 Room 1 exhaust location is P3R1E.

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The original sample results for Panels 3 and 4 are summarized in table 4. Sample results were well below action levels and remedial action was not required as described in Permit Part 4, Permit section 4.6.3.3. The associated data for original samples are reported in attachment 3. Results for field duplicate samples are reported in attachment 6D and field precision for the VOC Monitoring Program is discussed in section 7.1.

Table 4 – Summary of Ongoing Disposal Room VOC Monitoring Results

Target Compound	Maximum Detected Value (ppmv)	50% Action Level (ppmv)	95% Action Level (ppmv)	Room-based Limits (ppmv)	Total Exceedances
Panel 3					
Carbon Tetrachloride	4.2	4,813	9,145	9,625	0
Chlorobenzene	<MDL	6,500	12,350	13,000	0
Chloroform	<1	4,965	9,433	9,930	0
1,1-Dichloroethylene	<1	2,745	5,215	5,490	0
1,2-Dichloroethane	<1	1,200	2,280	2,400	0
Methylene Chloride	<1	50,000	95,000	100,000	0
1,1,2,2-Tetrachloroethane	<MDL	1,480	2,812	2,960	0
Toluene	<1	5,500	10,450	11,000	0
1,1,1-Trichloroethane	2.8	16,850	32,015	33,700	0
Trichloroethylene	<1	24,000	45,600	48,000	0
Panel 4					
Carbon Tetrachloride	365.8	4,813	9,145	9,625	0
Chlorobenzene	<MDL	6,500	12,350	13,000	0
Chloroform	18.95	4,965	9,433	9,930	0
1,1-Dichloroethylene	<MDL	2,745	5,215	5,490	0
1,2-Dichloroethane	<MDL	1,200	2,280	2,400	0
Methylene Chloride	9.74	50,000	95,000	100,000	0
1,1,2,2-Tetrachloroethane	<MDL	1,480	2,812	2,960	0
Toluene	<1	5,500	10,450	11,000	0
1,1,1-Trichloroethane	65.44	16,850	32,015	33,700	0
Trichloroethylene	94.71	24,000	45,600	48,000	0

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

ppmv = parts per million by volume
MDL = method detection limit

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5.0 NON-TARGET VOCs

The Permittees are required to evaluate non-target VOCs (including additional requested analytes and/or TICs) in VOC Monitoring Program compliance samples to determine if the non-target VOCs qualify for addition to the target analyte list(s) as specified by Permit Attachment N, section N-3b. Additional requested analytes are comprised of TICs that previously met the criteria for addition to the target analyte list that have not been assigned a COC, or that have been added for quantitation for other purposes. The TICs and additional requested analytes that meet the following criteria will be added to or maintained on the target analyte list(s) for Repository, Disposal Room, and Ongoing Disposal Room VOC Monitoring, unless the Permittees can justify the exclusion from the target analyte list(s):

- 1) Listed in Appendix VIII of 40 *Code of Federal Regulations* (CFR) Part 261 (incorporated by reference in 20.4.1.200 of the New Mexico Administrative Code); and
- 2) Detected in 10 percent or more of the VOC monitoring samples (exclusive of those collected from Station VOC-B).

For the 12-month timeframe from July 1, 2013 to June 30, 2014, non-target VOCs were evaluated in original VOC samples (excluding VOC-B) to determine if they were detected in a minimum of 10 percent of the samples and listed in Appendix VIII of 40 CFR Part 261. Collection of compliance samples from the WIPP underground discontinued after the two February events. The last sample was collected on February 4. After evaluation of non-target VOCs in 240 original VOC samples for the previous reporting period (see Semi-annual VOC, Hydrogen, and Methane Data Summary Report for Reporting Period July 1, 2013 through December 31, 2013) and 29 samples in this report for a total of 269 samples for the 12-month period, it was determined that 1,1,2-trichloro-1,2,2-trifluoroethane, tetrachloroethylene, trichloroethylene, and trichloromonofluoromethane meet the criteria for addition to the target analyte list(s). Excluding 1,1,2-trichloro-1,2,2-trifluoroethane, these compounds were previously added to the laboratory's quantitation list as additional requested analytes.

A facility emission rate (source term) for VOCs present in TRU mixed waste is modeled from measured concentrations in the waste. The relative contribution of each VOC to overall risk is calculated from the source term using a concentration/toxicity screening procedure. The revised risk criteria indicate 1,1,2-trichloro-1,2,2-trifluoroethane and tetrachloroethylene contribute less than one percent of the risk and are detected in emissions at low concentrations; therefore, these two compounds are being excluded from the laboratory's quantitation list. Trichloromonofluoromethane was not on the list of VOCs that were analyzed in waste container headspace volumes; therefore, a concentration/toxicity screen has not been performed for this compound. The compound is detected in emissions at low concentrations. In addition, the U.S. Environmental Protection Agency Integrated Risk Information System database does not indicate any specific risk factor for cancer and non-cancer effects; therefore, trichloromonofluoromethane is being excluded from the laboratory's quantitation list.

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Trichloroethylene is being retained on the laboratory's quantitation list as discussed below.

To gain a better understanding of potential concentrations and associated risk, trichloroethylene, tetrachloroethylene, and benzene were included on the laboratory quantitation list as additional requested analytes starting with samples collected on January 25, 2011. Five other compounds (methyl chloride [chloromethane], trans-1,2-dichloroethylene, 1,2,4-trimethylbenzene, p,m-xylene, and trichloromonofluoromethane) were also included in the laboratory quantitation list as additional requested analytes. These latter five compounds were added beginning with samples collected on May 3, 2011. None of the added analytes have an associated COC.

Starting with the samples collected on September 4, 2012, the list of additional requested analytes was reduced to two VOCs: trichloroethylene and 1,2,4-trimethylbenzene. Starting with the samples collected on January 7, 2014, the list was further reduced to include only trichloroethylene. Initially, trichloroethylene was retained as an additional requested analyte since it is a qualifying compound and there is no justification for exclusion. However, NMED Administrative Order dated May 12, 2014, requires the Permittees to monitor for trichloroethylene as a target analyte. The results for trichloroethylene in original samples are included in attachments reporting VOC results. These results are also summarized in table 5 since trichloroethylene was classified as an additional requested analyte for the first part of the reporting period.

The results for TICs in original samples are listed in attachment 4. The TICs reported in attachment 4 are not normalized.

Table 5 – Summary of Additional Requested Analytes

Additional Requested Analytes	CAS #	Maximum Station VOC-A Detected Value (ppbv)*	Maximum Disposal Room Detected Value (ppmv)†	Maximum Disposal Room Detection Location
Trichloroethylene	79-01-6	341.19	1,883	P6R7E

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. The last samples collected in the underground for this reporting period were taken on February 4.

CAS # = Chemical Abstracts Service registry number

ppbv = parts per billion by volume

ppmv=parts per million by volume

* This maximum detected value occurred on January 7, 2014 and is a normalized concentration.

† Includes Ongoing Disposal Room VOC Monitoring samples

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6.0 HYDROGEN AND METHANE MONITORING

Monitoring of hydrogen and methane within filled Panels 3 through 8 is required in accordance with Permit Part 4, Permit section 4.6.5.1, and Permit Attachment N1. A filled panel is an Underground HWDU that will no longer receive waste for emplacement. Monitoring is required until final panel closure, unless an explosion-isolation wall is installed. Sampling frequency is monthly unless action level 1 (shown in table 6) is exceeded, in which case the sampling frequency would increase to weekly. For this reporting period, monitoring was required for Panels 3 and 4. Monitoring was not instituted in Panel 5 as it was filled in July 2011 and an explosion-isolation wall was constructed in the panel.

Hydrogen and methane monitoring required by Permit Attachment N1 was implemented in April 2008. Two sample head locations for each monitored room of a panel correspond to intake and exhaust locations. Bulkheads separate Room 1 from the main access drift and the bulkhead areas also contain sampling points on both sides (waste [W] and accessible [A]). Sample data are identified by the source panel number, room number or "B" for bulkhead, and intake (I) or exhaust (E) function. For example, the Panel 3 Room 7 exhaust location is P3R7E. Similarly, the Panel 3 Exhaust Bulkhead waste side is coded P3EBW. No sample lines were determined to be unusable during this reporting period.

The sample locations previously determined to have unusable sampling lines and the determination dates are as follows:

- P3R7I and P3R1I on July 14, 2008
- P3R7E on August 30, 2010
- P3R6I on September 22, 2010
- P4R4E on April 7, 2011
- P4R6E on December 13, 2011
- P4R5E on August 14, 2012
- P3R6E on October 10, 2012

The P3IBW sampling line was determined to be unusable on April 21, 2010, and was replaced; sampling resumed on May 25, 2010.

For this reporting period, a total of 13 original samples (14 total samples) were collected in Panel 3, and 30 original samples (32 total samples) were collected in Panel 4 until the sampling locations became inaccessible following the two February events. Samples were collected using sub-atmospheric sampling methods; thus, a pressure dilution was performed by the analytical lab prior to analysis.

Sample results continued to demonstrate that very low concentrations of hydrogen and no measurable concentrations of methane are found in the HWDUs required to be monitored and are well below the conservative Action Levels shown in Table 6. The maximum detected value for an original sample was a value of 179 ppmv for hydrogen. This detection is considerably lower than the action levels (4.5 percent of action level 1 and 2.2 percent of action level 2). None of the samples yielded methane detections and

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are therefore flagged with a "U" qualifier. Associated data for original samples are reported in attachment 5. Original sample results are summarized in table 6. Field duplicate sample results are reported in attachment 7 and field precision for the Hydrogen and Methane Monitoring Program is discussed in section 7.2.

Table 6 – Summary of Hydrogen and Methane Monitoring Results

Target Compound	Maximum Detected Value (ppmv)	Location of Maximum Detected Value	Action Level 1 (ppmv)	Action Level 2 (ppmv)	Total Exceedances
Panel 3					
Hydrogen	< MDL	N/A	4,000	8,000	0
Methane	< MDL	N/A	5,000	10,000	0
Panel 4					
Hydrogen	179	P4R2E	4,000	8,000	0
Methane	< MDL	N/A	5,000	10,000	0

ppmv = parts per million by volume

MDL = method detection limit

N/A = not applicable

7.0 RESULTS OF PROGRAM OBJECTIVES

The results of program objectives presented in this section only apply to the samples collected as required by Permit Part 4 and Attachments N and N1 (i.e., underground samples), and cover the reporting period up to the point when sampling locations became inaccessible. Trichloroethylene is included in attachments relative to this section even though QA objectives for accuracy, precision, sensitivity, and completeness were not assigned for trichloroethylene in NMED Administrative Order dated May 12, 2014. As applicable, the QA/QC analyses associated with surface VOC monitoring samples are also included in the attachments listed in section 7.1 (field duplicates were not collected for surface samples).

The electronic data deliverables (EDDs) submitted by the analytical laboratory are required to be reviewed within five calendar days of receipt. For samples collected during this reporting period, EDDs were reviewed within five calendar days.

The data package validation is required to be completed within 14 calendar days of receipt for packages that do not include data that exceed COC or action levels, and within five calendar days of receipt for packages that do contain data that exceed COC or action levels. During this reporting period, data were validated within the required time period.

A comprehensive QA/QC program is an integral part of the VOC and hydrogen and methane monitoring effort. A number of QA/QC analyses are performed, including laboratory control samples (LCS), laboratory method blanks, field duplicates, and laboratory duplicate analyses of samples and LCS (i.e., LCS duplicate [LCSD]). The laboratory QA/QC analyses indicate that the laboratory was performing within specifications and was capable of detecting and quantifying the target analytes when they were present. The analytical laboratory used for analyses of compliance

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monitoring samples during this reporting period performed analyses under an established QA/QC program. Results of QA/QC analyses and completeness for VOCs and hydrogen and methane are discussed in sections 7.1 and 7.2, respectively.

7.1 VOC QA/QC Analyses and Completeness

The QA/QC analyses and completeness results indicate that the VOC data collected during this reporting period met the program objectives and the data are accurate and defensible. The following is a discussion of the results.

Attachment 6A (VOCs – Precision of Laboratory Sample Duplicates) shows that during the reporting period, laboratory sample duplicates met the technical acceptance criterion (≤ 25 relative percent difference [RPD]) for precision, which is only applicable if one or both values are not flagged "U" or "J."

Attachment 6B (VOCs – Precision/Accuracy of Laboratory Control Samples) shows that during the reporting period, 100 percent of LCS/LCSD results met the technical acceptance criteria for precision (≤ 25 RPD) and accuracy (60 to 140 percent recovery). LCS/LCSD is synonymous with blank spike/blank spike duplicate in the Permit.

Attachment 6C (VOCs – Laboratory Method Blanks) shows that target compound concentrations in each method blank met the contract-specified blank technical acceptance criterion (i.e., all target analytes < 0.5 ppbv).

Attachment 6D (VOCs – Field Duplicate Precision) shows the results of field duplicates collected during this reporting period. Two field duplicates were collected at repository VOC monitoring locations, three at disposal room VOC monitoring locations, and three while conducting the ongoing disposal room VOC monitoring. All field duplicates met the RPD criteria of ≤ 35 , which is only applicable if one or both values are not flagged "U" or "J."

Completeness is defined as the percentage of the ratio of the number of valid sample results received (i.e., those that meet data quality objectives) versus the total number of samples required to be collected. Completeness may be affected by, for example, sample loss or destruction during shipping, laboratory sample handling errors, inability to collect the required samples, or rejection of analytical data during data validation. Field duplicates, with a prescribed frequency of at least 5 percent, are included in the total. The QA objective (i.e., goal) for the program is 95 percent completeness or greater. During this reporting period, 20 Repository VOC Monitoring samples (includes two field duplicates), 20 Disposal Room VOC Monitoring samples (includes 3 field duplicates), and 6 Ongoing Disposal Room VOC Monitoring samples (includes 3 field duplicates) were collected for a total of 46 samples. All field duplicates met the technical acceptance criterion. The overall completeness for the reporting period was 100 percent.

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7.2 Hydrogen and Methane QA/QC Analyses and Completeness

The QA/QC analyses and completeness results indicate that the hydrogen and methane data collected during this reporting period met the program objectives and the data are accurate and defensible. The following is a discussion of the results.

Attachment 7 shows that during the reporting period:

- 100 percent of the LCS/LCSD results met the technical acceptance criteria for precision (≤ 25 RPD) and accuracy (70 to 130 percent recovery).
- All results for both hydrogen and methane met the blank technical acceptance criterion (i.e., \leq MDL).
- 100 percent of the laboratory sample duplicates met the technical acceptance criterion (≤ 25 RPD) for precision.
- The 12 field duplicates met the RPD criteria of ≤ 35 , which is only applicable if one or both values are not flagged "U" or "J."

Completeness is defined as the percentage of the ratio of the number of valid sample results received (i.e., those which meet data quality objectives) versus the total number of samples required to be collected. Completeness may be affected by, for example, sample loss or destruction during shipping, laboratory sample handling errors, inability to collect the required samples, or rejection of analytical data during data validation. Field duplicates, with a prescribed frequency of at least 5 percent, are included in the total. The QA objective (i.e., goal) for the program is a completeness of 95 percent or greater. During this reporting period, a total of 46 samples (includes 3 field duplicates) were collected for hydrogen and methane analysis. The laboratory provided valid results for the samples that were submitted. The completeness for the reporting period was 100 percent.

8.0 REPORTING OF OTHER NONCOMPLIANCE

Permit Part 1, section 1.7.14 addresses the reporting of other instances of noncompliance not otherwise required to be reported pursuant to Permit Part 1, sections 1.7.10 through 1.7.13. Permit section 1.7.14 requires that this information be reported to the NMED Secretary annually in October with the submittal of monitoring reports. Beginning with the Semi-annual VOC Data Summary Report of October 2008, other noncompliance information has been submitted with semi-annual reports due in October. These semi-annual reports will continue to be the means for reporting other noncompliance. During the period from July 1, 2013 to June 30, 2014, three noncompliances were identified that were not otherwise reported to the NMED.

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The Permittees failed to notify the NMED of a nonconformance report (NCR) within seven days. On May 27, 2014, during an audit, two radiography operators were identified on the list of qualified operators but, upon investigation, had incomplete training records. A non-administrative nonconformance report (NCR-RHINL-0359-14) resulted from this training deficiency but the Permittees were not notified within seven days as required by Attachment C3, section C3-7, of the Permit. However, the NCR was reported to NMED in the June 2014 monthly summarization report for site-generated nonconformances as required by the Permit. The radiography operators were briefed on the required training to correct this discrepancy.

The Permittees failed to send the Carlsbad Field Office Procedure Change Report for March 2014. This is inconsistent with the Permit condition at Permit Attachment C3, Section C3-9. This condition requires the Permittees to send NMED a monthly summary briefly describing the changes to WAP-related plans and procedures identified during the previous month. The March 2014 report was transmitted to NMED on May 23, 2014, which was not within the reporting timeframe.

On April 15, 2014, the NMED posted a revision to the Permit. The Permittees are required to upload current versions of the Permit to the Information Repository within 10 calendar days of issuance. The revised Permit was uploaded to the Information Repository as required. On August 20, 2014, during a review of the WIPP Permit link in the Information Repository, it was discovered that although the correct version of the Permit was posted, Attachment F1 was inadvertently excluded. Once the oversight was discovered, the correction was made.

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Attachment 1 – Comparison of the Underground HWDU VOC Emission Concentration and COC – Repository VOC Monitoring

Sample Date (A and B)	VOC-A Sample ID	VOC-A Analysis Date	VOC-A MRL (ppbv)	VOC-B Sample ID	VOC-B Analysis Date	VOC-B MRL (ppbv)	Compound	VOC-A (ppbv)	VOC-B (ppbv)	Emission (ppbv) ¹	COC (ppbv)
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	1,1,1-Trichloroethane	104.82*	U	104.82	590
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	1,1,2,2-Tetrachloroethane	U	0.08* J	0	50
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	1,1-Dichloroethylene	3.53* J	U	0	100
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	1,2-Dichloroethane	U	U	0	45
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Carbon Tetrachloride	825.73*	0.20* J	825.73	960
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Chlorobenzene	U	U	0	220
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Chloroform	72.29*	U	72.29	180
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Methylene Chloride	12.43* J	0.13* J	0	1930
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Toluene	1.07* J	0.49* J	0	190
1/7/2014	8839	1/24/2014	9	8838	1/24/2014	1	Trichloroethylene	341.19*	U	341.19	N/A
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	1,1,1-Trichloroethane	58.14*	U	58.14	590
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	1,1-Dichloroethylene	U	U	0	100
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	1,2-Dichloroethane	U	U	0	45
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Carbon Tetrachloride	416.12*	0.18* J	416.12	960
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Chlorobenzene	U	U	0	220
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Chloroform	35.76*	U	35.76	180
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Methylene Chloride	6.93*	0.13* J	6.93	1930
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Toluene	1.30* J	1.14* J	0	190
1/8/2014	8841	1/24/2014	4	8840	1/24/2014	1	Trichloroethylene	178.68*	U	178.68	N/A
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	1,1,1-Trichloroethane	35.49*	U	35.49	590
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	1,1-Dichloroethylene	U	U	0	100
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	1,2-Dichloroethane	U	U	0	45
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Carbon Tetrachloride	174.48*	0.15* J	174.48	960
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Chlorobenzene	U	U	0	220
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Chloroform	10.33*	U	10.33	180
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Methylene Chloride	3.73*	0.15* J	3.73	1930
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Toluene	0.57* J	0.30* J	0	190
1/14/2014	8867	1/30/2014	2	8866	1/30/2014	1	Trichloroethylene	64.80*	U	64.8	N/A
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	1,1,1-Trichloroethane	82.79*	U	82.79	590
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	1,1-Dichloroethylene	U	U	0	100
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	1,2-Dichloroethane	U	U	0	45
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Carbon Tetrachloride	728.37*	0.64* J	728.37	960
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Chlorobenzene	U	U	0	220
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Chloroform	61.19*	U	61.19	180

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Attachment 1 – Comparison of the Underground HWDU VOC Emission Concentration and COC – Repository VOC Monitoring

Sample Date (A and B)	VOC-A Sample ID	VOC-A Analysis Date	VOC-A MRL (ppbv)	VOC-B Sample ID	VOC-B Analysis Date	VOC-B MRL (ppbv)	Compound	VOC-A (ppbv)	VOC-B (ppbv)	Emission (ppbv) ¹	COC (ppbv)
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Methylene Chloride	11.02* J	0.14* J	0	1930
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Toluene	0.72* J	0.37* J	0	190
1/15/2014	8869	1/30/2014	9	8868	1/30/2014	1	Trichloroethylene	279.28*	0.17* J	279.28	N/A
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	1,1,1-Trichloroethane	65.25*	U	65.25	590
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	1,1-Dichloroethylene	1.32* J	U	0	100
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	1,2-Dichloroethane	U	U	0	45
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Carbon Tetrachloride	527.47*	0.14* J	527.47	960
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Chlorobenzene	U	U	0	220
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Chloroform	55.74*	U	55.74	180
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Methylene Chloride	10.96* J	0.13* J	0	1930
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Toluene	1.05* J	0.58* J	0	190
1/21/2014	8877	2/5/2014	9	8876	2/5/2014	1	Trichloroethylene	212.41*	U	212.41	N/A
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	1,1,1-Trichloroethane	73.75*	U	73.75	590
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	1,1-Dichloroethylene	1.12* J	U	0	100
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	1,2-Dichloroethane	U	U	0	45
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Carbon Tetrachloride	451.63*	0.17* J	451.63	960
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Chlorobenzene	U	U	0	220
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Chloroform	37.72*	U	37.72	180
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Methylene Chloride	9.66*	0.15* J	9.66	1930
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Toluene	0.93* J	0.54* J	0	190
1/22/2014	8879	2/5/2014	6	8878	2/5/2014	1	Trichloroethylene	161.49*	U	161.49	N/A
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	1,1,1-Trichloroethane	34.82*	U	34.82	590
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	1,1-Dichloroethylene	U	U	0	100
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	1,2-Dichloroethane	U	U	0	45
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Carbon Tetrachloride	229.14*	0.11* J	229.14	960
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Chlorobenzene	U	U	0	220
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Chloroform	21.06*	U	21.06	180
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Methylene Chloride	5.99*	0.14* J	5.99	1930
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Toluene	0.41* J	0.14* J	0	190
1/28/2014	8897	2/7/2014	4	8898	2/7/2014	1	Trichloroethylene	80.63*	U	80.63	N/A
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	1,1,1-Trichloroethane	92.61*	0.10* J	92.61	590
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	1,1,2,2-Tetrachloroethane	U	U	0	50
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	1,1-Dichloroethylene	5.35* J	U	0	100
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	1,2-Dichloroethane	U	U	0	45
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Carbon Tetrachloride	712.28*	0.77* J	712.28	960

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Sample Date (A and B)	VOC-A Sample ID	VOC-A Analysis Date	VOC-A MRL (ppbv)	VOC-B Sample ID	VOC-B Analysis Date	VOC-B MRL (ppbv)	Compound	VOC-A (ppbv)	VOC-B (ppbv)	Emission (ppbv) ¹	COC (ppbv)
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Chlorobenzene	U	U	0	220
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Chloroform	73.24*	0.08* J	73.24	180
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Methylene Chloride	14.49* J	0.17* J	0	1930
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Toluene	0.94* J	0.36* J	0	190
1/29/2014	8899	2/7/2014	9	8900	2/7/2014	1	Trichloroethylene	262.73*	0.26* J	262.73	N/A
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	1,1,1-Trichloroethane	47.90*	U	47.9	590
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	1,1,2,2-Tetrachloroethane	U	0.13* J	0	50
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	1,1-Dichloroethylene	U	U	0	100
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	1,2-Dichloroethane	U	U	0	45
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Carbon Tetrachloride	238.78*	0.13* J	238.78	960
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Chlorobenzene	U	U	0	220
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Chloroform	18.10*	U	18.1	180
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Methylene Chloride	6.21* J	0.16* J	0	1930
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Toluene	0.74* J	0.32* J	0	190
2/4/2014	8901	2/18/2014	4	8902	2/18/2014	1	Trichloroethylene	82.29*	U	82.29	N/A

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with NMED Administrative Order dated May 12, 2014. Quality assurance objectives for accuracy, precision, sensitivity, and completeness and a concentration of concern (COC) for Repository VOC Monitoring were not assigned for trichloroethylene in the Administrative Order. However, the Permittees have established these for the laboratory in the laboratory statement of work.

Station VOC-A and Station VOC-B are abbreviated to VOC-A and VOC-B in the column headers, with the exception of the "Sample Date" column where they are abbreviated as "A and B."

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.

ppbv = parts per billion by volume.

N/A = not applicable.

* Normalized concentration.

¹ Analytical results not qualified as "U" are normalized to the typical operating conditions, in accordance with Permit Attachment N, section N-3e(1). The normalized concentration of each target VOC detected at Station VOC-B is subtracted from the normalized concentration detected at Station VOC-A and represents the Underground HWDU VOC emission concentration. The resulting concentration for each target analyte is compared to its COC listed in Permit Part 4, table 4.6.2.3. Results qualified as "U" indicate that the laboratory's quantitative results were not greater than the method detection limit (MDL) and are assigned a value of zero for determination of emission concentrations. Analytical results qualified as "J" indicate that the laboratory's quantitative results were at a concentration greater than the MDL but less than the laboratory's method reporting limit (MRL). Results qualified as "J" are normalized but are considered to be estimated values and are assigned a value of zero for determination of emission concentrations. When the normalized concentration at Station VOC-A is less than Station VOC-B, the emission concentration is reported as zero.

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P6R1E	8871	1/14/2014	1/30/2014	1,1,1-Trichloroethane	9	178.29
P6R1E	8871	1/14/2014	1/30/2014	1,1,2,2-Tetrachloroethane	9	U
P6R1E	8871	1/14/2014	1/30/2014	1,1-Dichloroethylene	9	U
P6R1E	8871	1/14/2014	1/30/2014	1,2-Dichloroethane	9	U
P6R1E	8871	1/14/2014	1/30/2014	Carbon Tetrachloride	9	504.09
P6R1E	8871	1/14/2014	1/30/2014	Chlorobenzene	9	U
P6R1E	8871	1/14/2014	1/30/2014	Chloroform	9	14.58
P6R1E	8871	1/14/2014	1/30/2014	Methylene Chloride	9	4.23 J
P6R1E	8871	1/14/2014	1/30/2014	Toluene	9	0.72 J
P6R1E	8871	1/14/2014	1/30/2014	Trichloroethylene	9	206.37
P6R2E	8849	1/8/2014	1/25/2014	1,1,1-Trichloroethane	162	3,518.64
P6R2E	8849	1/8/2014	1/25/2014	1,1,2,2-Tetrachloroethane	162	U
P6R2E	8849	1/8/2014	1/25/2014	1,1-Dichloroethylene	162	U
P6R2E	8849	1/8/2014	1/25/2014	1,2-Dichloroethane	162	U
P6R2E	8849	1/8/2014	1/25/2014	Carbon Tetrachloride	162	9,180.54
P6R2E	8849	1/8/2014	1/25/2014	Chlorobenzene	162	U
P6R2E	8849	1/8/2014	1/25/2014	Chloroform	162	267.30
P6R2E	8849	1/8/2014	1/25/2014	Methylene Chloride	162	69.66 J
P6R2E	8849	1/8/2014	1/25/2014	Toluene	162	11.34 J
P6R2E	8849	1/8/2014	1/25/2014	Trichloroethylene	162	3,546.18
P6R2I	8850	1/8/2014	1/25/2014	1,1,1-Trichloroethane	108	1,499.04
P6R2I	8850	1/8/2014	1/25/2014	1,1,2,2-Tetrachloroethane	108	U
P6R2I	8850	1/8/2014	1/25/2014	1,1-Dichloroethylene	108	U
P6R2I	8850	1/8/2014	1/25/2014	1,2-Dichloroethane	108	U
P6R2I	8850	1/8/2014	1/25/2014	Carbon Tetrachloride	108	4,484.16
P6R2I	8850	1/8/2014	1/25/2014	Chlorobenzene	108	U
P6R2I	8850	1/8/2014	1/25/2014	Chloroform	108	167.40

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Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P6R2I	8850	1/8/2014	1/25/2014	Methylene Chloride	108	41.04 J
P6R2I	8850	1/8/2014	1/25/2014	Toluene	108	5.40 J
P6R2I	8850	1/8/2014	1/25/2014	Trichloroethylene	108	2,027.16
P6R3E	8845	1/7/2014	1/24/2014	1,1,1-Trichloroethane	4374	83,980.80
P6R3E	8845	1/7/2014	1/24/2014	1,1,2,2-Tetrachloroethane	4374	U
P6R3E	8845	1/7/2014	1/24/2014	1,1-Dichloroethylene	4374	U
P6R3E	8845	1/7/2014	1/24/2014	1,2-Dichloroethane	4374	U
P6R3E	8845	1/7/2014	1/24/2014	Carbon Tetrachloride	4374	251,330.04
P6R3E	8845	1/7/2014	1/24/2014	Chlorobenzene	4374	U
P6R3E	8845	1/7/2014	1/24/2014	Chloroform	4374	11,853.54
P6R3E	8845	1/7/2014	1/24/2014	Methylene Chloride	4374	2,974.32 J
P6R3E	8845	1/7/2014	1/24/2014	Toluene	4374	393.66 J
P6R3E	8845	1/7/2014	1/24/2014	Trichloroethylene	4374	137,562.30
P6R3I	8846	1/7/2014	1/24/2014	1,1,1-Trichloroethane	972	28,022.76
P6R3I	8846	1/7/2014	1/24/2014	1,1,2,2-Tetrachloroethane	972	U
P6R3I	8846	1/7/2014	1/24/2014	1,1-Dichloroethylene	972	U
P6R3I	8846	1/7/2014	1/24/2014	1,2-Dichloroethane	972	U
P6R3I	8846	1/7/2014	1/24/2014	Carbon Tetrachloride	972	80,335.80
P6R3I	8846	1/7/2014	1/24/2014	Chlorobenzene	972	U
P6R3I	8846	1/7/2014	1/24/2014	Chloroform	972	3,965.76
P6R3I	8846	1/7/2014	1/24/2014	Methylene Chloride	972	1,001.16
P6R3I	8846	1/7/2014	1/24/2014	Toluene	972	126.36 J
P6R3I	8846	1/7/2014	1/24/2014	Trichloroethylene	972	45,577.08
P6R4E	8873	1/15/2014	1/31/2014	1,1,1-Trichloroethane	8748	148,978.44
P6R4E	8873	1/15/2014	1/31/2014	1,1,2,2-Tetrachloroethane	8748	U
P6R4E	8873	1/15/2014	1/31/2014	1,1-Dichloroethylene	8748	U
P6R4E	8873	1/15/2014	1/31/2014	1,2-Dichloroethane	8748	U
P6R4E	8873	1/15/2014	1/31/2014	Carbon Tetrachloride	8748	484,464.24

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Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P6R4E	8873	1/15/2014	1/31/2014	Chlorobenzene	8748	U
P6R4E	8873	1/15/2014	1/31/2014	Chloroform	8748	25,719.12
P6R4E	8873	1/15/2014	1/31/2014	Methylene Chloride	8748	6,298.56 J
P6R4E	8873	1/15/2014	1/31/2014	Toluene	8748	612.36 J
P6R4E	8873	1/15/2014	1/31/2014	Trichloroethylene	8748	281,598.12
P6R4I	8875	1/15/2014	1/31/2014	1,1,1-Trichloroethane	8748	137,256.12
P6R4I	8875	1/15/2014	1/31/2014	1,1,2,2-Tetrachloroethane	8748	U
P6R4I	8875	1/15/2014	1/31/2014	1,1-Dichloroethylene	8748	U
P6R4I	8875	1/15/2014	1/31/2014	1,2-Dichloroethane	8748	U
P6R4I	8875	1/15/2014	1/31/2014	Carbon Tetrachloride	8748	441,511.56
P6R4I	8875	1/15/2014	1/31/2014	Chlorobenzene	8748	U
P6R4I	8875	1/15/2014	1/31/2014	Chloroform	8748	24,057.00
P6R4I	8875	1/15/2014	1/31/2014	Methylene Chloride	8748	5,861.16 J
P6R4I	8875	1/15/2014	1/31/2014	Toluene	8748	U
P6R4I	8875	1/15/2014	1/31/2014	Trichloroethylene	8748	279,236.16
P6R5E	8870	1/14/2014	1/30/2014	1,1,1-Trichloroethane	26244	368,990.64
P6R5E	8870	1/14/2014	1/30/2014	1,1,2,2-Tetrachloroethane	26244	U
P6R5E	8870	1/14/2014	1/30/2014	1,1-Dichloroethylene	26244	U
P6R5E	8870	1/14/2014	1/30/2014	1,2-Dichloroethane	26244	U
P6R5E	8870	1/14/2014	1/30/2014	Carbon Tetrachloride	26244	1,177,568.28
P6R5E	8870	1/14/2014	1/30/2014	Chlorobenzene	26244	U
P6R5E	8870	1/14/2014	1/30/2014	Chloroform	26244	64,035.36
P6R5E	8870	1/14/2014	1/30/2014	Methylene Chloride	26244	10,497.60 J
P6R5E	8870	1/14/2014	1/30/2014	Toluene	26244	1,049.76 J
P6R5E	8870	1/14/2014	1/30/2014	Trichloroethylene	26244	740,605.68
P6R5I	8872	1/14/2014	1/31/2014	1,1,1-Trichloroethane	19683	301,543.56
P6R5I	8872	1/14/2014	1/31/2014	1,1,2,2-Tetrachloroethane	19683	U
P6R5I	8872	1/14/2014	1/31/2014	1,1-Dichloroethylene	19683	U

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Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P6R5I	8872	1/14/2014	1/31/2014	1,2-Dichloroethane	19683	U
P6R5I	8872	1/14/2014	1/31/2014	Carbon Tetrachloride	19683	998,124.93
P6R5I	8872	1/14/2014	1/31/2014	Chlorobenzene	19683	U
P6R5I	8872	1/14/2014	1/31/2014	Chloroform	19683	54,128.25
P6R5I	8872	1/14/2014	1/31/2014	Methylene Chloride	19683	10,038.33 J
P6R5I	8872	1/14/2014	1/31/2014	Toluene	19683	1,377.81 J
P6R5I	8872	1/14/2014	1/31/2014	Trichloroethylene	19683	663,317.10
P6R6E	8847	1/8/2014	1/24/2014	1,1,1-Trichloroethane	26244	490,500.36
P6R6E	8847	1/8/2014	1/24/2014	1,1,2,2-Tetrachloroethane	26244	U
P6R6E	8847	1/8/2014	1/24/2014	1,1-Dichloroethylene	26244	U
P6R6E	8847	1/8/2014	1/24/2014	1,2-Dichloroethane	26244	U
P6R6E	8847	1/8/2014	1/24/2014	Carbon Tetrachloride	26244	1,701,398.52
P6R6E	8847	1/8/2014	1/24/2014	Chlorobenzene	26244	U
P6R6E	8847	1/8/2014	1/24/2014	Chloroform	26244	102,351.60
P6R6E	8847	1/8/2014	1/24/2014	Methylene Chloride	26244	12,334.68 J
P6R6E	8847	1/8/2014	1/24/2014	Toluene	26244	2,099.52 J
P6R6E	8847	1/8/2014	1/24/2014	Trichloroethylene	26244	1,159,459.92
P6R6I	8851	1/8/2014	1/25/2014	1,1,1-Trichloroethane	26244	461,107.08
P6R6I	8851	1/8/2014	1/25/2014	1,1,2,2-Tetrachloroethane	26244	U
P6R6I	8851	1/8/2014	1/25/2014	1,1-Dichloroethylene	26244	U
P6R6I	8851	1/8/2014	1/25/2014	1,2-Dichloroethane	26244	U
P6R6I	8851	1/8/2014	1/25/2014	Carbon Tetrachloride	26244	1,668,331.08
P6R6I	8851	1/8/2014	1/25/2014	Chlorobenzene	26244	U
P6R6I	8851	1/8/2014	1/25/2014	Chloroform	26244	96,053.04
P6R6I	8851	1/8/2014	1/25/2014	Methylene Chloride	26244	14,171.76 J
P6R6I	8851	1/8/2014	1/25/2014	Toluene	26244	1,837.08 J
P6R6I	8851	1/8/2014	1/25/2014	Trichloroethylene	26244	1,131,903.72
P6R7E	8843	1/7/2014	1/24/2014	1,1,1-Trichloroethane	39366	597,575.88

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P6R7E	8843	1/7/2014	1/24/2014	1,1,2,2-Tetrachloroethane	39366	U
P6R7E	8843	1/7/2014	1/24/2014	1,1-Dichloroethylene	39366	U
P6R7E	8843	1/7/2014	1/24/2014	1,2-Dichloroethane	39366	U
P6R7E	8843	1/7/2014	1/24/2014	Carbon Tetrachloride	39366	2,439,511.02
P6R7E	8843	1/7/2014	1/24/2014	Chlorobenzene	39366	U
P6R7E	8843	1/7/2014	1/24/2014	Chloroform	39366	140,536.62
P6R7E	8843	1/7/2014	1/24/2014	Methylene Chloride	39366	16,533.72 J
P6R7E	8843	1/7/2014	1/24/2014	Toluene	39366	2,755.62 J
P6R7E	8843	1/7/2014	1/24/2014	Trichloroethylene	39366	1,883,269.44
P6R7I	8844	1/7/2014	1/24/2014	1,1,1-Trichloroethane	39366	518,056.56
P6R7I	8844	1/7/2014	1/24/2014	1,1,2,2-Tetrachloroethane	39366	U
P6R7I	8844	1/7/2014	1/24/2014	1,1-Dichloroethylene	39366	U
P6R7I	8844	1/7/2014	1/24/2014	1,2-Dichloroethane	39366	U
P6R7I	8844	1/7/2014	1/24/2014	Carbon Tetrachloride	39366	2,104,112.70
P6R7I	8844	1/7/2014	1/24/2014	Chlorobenzene	39366	U
P6R7I	8844	1/7/2014	1/24/2014	Chloroform	39366	118,491.66
P6R7I	8844	1/7/2014	1/24/2014	Methylene Chloride	39366	14,959.08 J
P6R7I	8844	1/7/2014	1/24/2014	Toluene	39366	1,968.30 J
P6R7I	8844	1/7/2014	1/24/2014	Trichloroethylene	39366	1,441,976.58
P7R6E	8909	2/4/2014	2/18/2014	1,1,1-Trichloroethane	1	1.51
P7R6E	8909	2/4/2014	2/18/2014	1,1,2,2-Tetrachloroethane	1	U
P7R6E	8909	2/4/2014	2/18/2014	1,1-Dichloroethylene	1	U
P7R6E	8909	2/4/2014	2/18/2014	1,2-Dichloroethane	1	U
P7R6E	8909	2/4/2014	2/18/2014	Carbon Tetrachloride	1	4.79
P7R6E	8909	2/4/2014	2/18/2014	Chlorobenzene	1	U
P7R6E	8909	2/4/2014	2/18/2014	Chloroform	1	0.11 J
P7R6E	8909	2/4/2014	2/18/2014	Methylene Chloride	1	0.10 J

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Attachment 2 – Disposal Room VOC Monitoring Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P7R6E	8909	2/4/2014	2/18/2014	Toluene	1	0.16 J
P7R6E	8909	2/4/2014	2/18/2014	Trichloroethylene	1	1.37
P7R7E	8842	1/7/2014	1/24/2014	1,1,1-Trichloroethane	1	0.23 J
P7R7E	8842	1/7/2014	1/24/2014	1,1,2,2-Tetrachloroethane	1	0.07 J
P7R7E	8842	1/7/2014	1/24/2014	1,1-Dichloroethylene	1	U
P7R7E	8842	1/7/2014	1/24/2014	1,2-Dichloroethane	1	U
P7R7E	8842	1/7/2014	1/24/2014	Carbon Tetrachloride	1	0.82 J
P7R7E	8842	1/7/2014	1/24/2014	Chlorobenzene	1	U
P7R7E	8842	1/7/2014	1/24/2014	Chloroform	1	0.11 J
P7R7E	8842	1/7/2014	1/24/2014	Methylene Chloride	1	0.17 J
P7R7E	8842	1/7/2014	1/24/2014	Toluene	1	0.24 J
P7R7E	8842	1/7/2014	1/24/2014	Trichloroethylene	1	0.46 J
P7R7E	8880	1/21/2014	2/5/2014	1,1,1-Trichloroethane	1	0.09 J
P7R7E	8880	1/21/2014	2/5/2014	1,1,2,2-Tetrachloroethane	1	U
P7R7E	8880	1/21/2014	2/5/2014	1,1-Dichloroethylene	1	U
P7R7E	8880	1/21/2014	2/5/2014	1,2-Dichloroethane	1	U
P7R7E	8880	1/21/2014	2/5/2014	Carbon Tetrachloride	1	0.43 J
P7R7E	8880	1/21/2014	2/5/2014	Chlorobenzene	1	U
P7R7E	8880	1/21/2014	2/5/2014	Chloroform	1	0.15 J
P7R7E	8880	1/21/2014	2/5/2014	Methylene Chloride	1	0.10 J
P7R7E	8880	1/21/2014	2/5/2014	Toluene	1	0.27 J
P7R7E	8880	1/21/2014	2/5/2014	Trichloroethylene	1	2.25
P7R7E	8907	2/3/2014	2/18/2014	1,1,1-Trichloroethane	1	8.01
P7R7E	8907	2/3/2014	2/18/2014	1,1,2,2-Tetrachloroethane	1	U
P7R7E	8907	2/3/2014	2/18/2014	1,1-Dichloroethylene	1	U
P7R7E	8907	2/3/2014	2/18/2014	1,2-Dichloroethane	1	U
P7R7E	8907	2/3/2014	2/18/2014	Carbon Tetrachloride	1	36.52
P7R7E	8907	2/3/2014	2/18/2014	Chlorobenzene	1	U

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Attachment 2 – Disposal Room VOC Monitoring Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P7R7E	8907	2/3/2014	2/18/2014	Chloroform	1	0.52 J
P7R7E	8907	2/3/2014	2/18/2014	Methylene Chloride	1	0.21 J
P7R7E	8907	2/3/2014	2/18/2014	Toluene	1	0.19 J
P7R7E	8907	2/3/2014	2/18/2014	Trichloroethylene	1	6.68

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with the NMED Administrative Order dated May 12, 2014.

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.

ppbv = parts per billion by volume.

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Attachment 3 – Ongoing Disposal Room VOC Monitoring Results

P3R1E – Ongoing Disposal Room VOC Monitoring Results for Panel 3 Room 1 Exhaust

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P3R1E	8864	1/15/2014	1/31/2014	1,1,1-Trichloroethane	72	2,799.36
P3R1E	8864	1/15/2014	1/31/2014	1,1,2,2-Tetrachloroethane	72	U
P3R1E	8864	1/15/2014	1/31/2014	1,1-Dichloroethylene	72	16.56 J
P3R1E	8864	1/15/2014	1/31/2014	1,2-Dichloroethane	72	5.76 J
P3R1E	8864	1/15/2014	1/31/2014	Carbon Tetrachloride	72	4,203.36
P3R1E	8864	1/15/2014	1/31/2014	Chlorobenzene	72	U
P3R1E	8864	1/15/2014	1/31/2014	Chloroform	72	111.60
P3R1E	8864	1/15/2014	1/31/2014	Methylene Chloride	72	568.08
P3R1E	8864	1/15/2014	1/31/2014	Toluene	72	41.76 J
P3R1E	8864	1/15/2014	1/31/2014	Trichloroethylene	72	475.92

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with the NMED Administrative Order dated May 12, 2014.

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.

ppbv = parts per billion by volume.

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Attachment 3 – Ongoing Disposal Room VOC Monitoring Results

P4R1E – Ongoing Disposal Room VOC Monitoring Results for Panel 4 Room 1 Exhaust

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppbv)	Concentration (ppbv)
P4R1E	8895	1/20/2014	2/5/2014	1,1,1-Trichloroethane	5832	35,575.20
P4R1E	8895	1/20/2014	2/5/2014	1,1,2,2-Tetrachloroethane	5832	U
P4R1E	8895	1/20/2014	2/5/2014	1,1-Dichloroethylene	5832	U
P4R1E	8895	1/20/2014	2/5/2014	1,2-Dichloroethane	5832	U
P4R1E	8895	1/20/2014	2/5/2014	Carbon Tetrachloride	5832	209,718.72
P4R1E	8895	1/20/2014	2/5/2014	Chlorobenzene	5832	U
P4R1E	8895	1/20/2014	2/5/2014	Chloroform	5832	11,314.08
P4R1E	8895	1/20/2014	2/5/2014	Methylene Chloride	5832	5,890.32
P4R1E	8895	1/20/2014	2/5/2014	Toluene	5832	291.60 J
P4R1E	8895	1/20/2014	2/5/2014	Trichloroethylene	5832	57,153.60
P4R1E	8924	2/3/2014	2/18/2014	1,1,1-Trichloroethane	5832	65,435.04
P4R1E	8924	2/3/2014	2/18/2014	1,1,2,2-Tetrachloroethane	5832	U
P4R1E	8924	2/3/2014	2/18/2014	1,1-Dichloroethylene	5832	U
P4R1E	8924	2/3/2014	2/18/2014	1,2-Dichloroethane	5832	U
P4R1E	8924	2/3/2014	2/18/2014	Carbon Tetrachloride	5832	365,841.36
P4R1E	8924	2/3/2014	2/18/2014	Chlorobenzene	5832	U
P4R1E	8924	2/3/2014	2/18/2014	Chloroform	5832	18,954.00
P4R1E	8924	2/3/2014	2/18/2014	Methylene Chloride	5832	9,739.44
P4R1E	8924	2/3/2014	2/18/2014	Toluene	5832	408.24 J
P4R1E	8924	2/3/2014	2/18/2014	Trichloroethylene	5832	94,711.68

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with the NMED Administrative Order dated May 12, 2014.

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.

ppbv = parts per billion by volume.

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Attachment 4 – VOC Non-Target Results (TICs)

VOC non-target results for compounds appearing in Appendix VIII of 40 CFR Part 261

Compound Name	CAS #	Location	Sample ID	Sample Date	Analysis Date	MRL (ppbv)	Concentration (ppbv)
Tetrachloroethylene	127-18-4	VOC-A	8839	1/7/2014	1/24/2014		34.74 NJ
Tetrachloroethylene	127-18-4	VOC-A	8841	1/8/2014	1/24/2014		29.70 NJ
Tetrachloroethylene	127-18-4	VOC-A	8867	1/14/2014	1/30/2014		7.18 NJ
Tetrachloroethylene	127-18-4	VOC-A	8869	1/15/2014	1/30/2014		29.79 NJ
Tetrachloroethylene	127-18-4	VOC-A	8877	1/21/2014	2/5/2014		34.47 NJ
Tetrachloroethylene	127-18-4	VOC-A	8879	1/22/2014	2/5/2014		23.82 NJ
Tetrachloroethylene	127-18-4	VOC-A	8897	1/28/2014	2/7/2014		12.16 NJ
Tetrachloroethylene	127-18-4	VOC-A	8899	1/29/2014	2/7/2014		31.05 NJ
Tetrachloroethylene	127-18-4	VOC-A	8901	2/4/2014	2/18/2014		10.88 NJ
Tetrachloroethylene	127-18-4	P3R1E	8864	1/15/2014	1/31/2014		79.92 NJ
Tetrachloroethylene	127-18-4	P4R1E	8895	1/20/2014	2/5/2014		8,981.28 NJ
Tetrachloroethylene	127-18-4	P4R1E	8924	2/3/2014	2/18/2014		15,279.84 NJ
Tetrachloroethylene	127-18-4	P6R1E	8871	1/14/2014	1/30/2014		39.15 NJ
Tetrachloroethylene	127-18-4	P6R2E	8849	1/8/2014	1/25/2014		625.32 NJ
Tetrachloroethylene	127-18-4	P6R2I	8850	1/8/2014	1/25/2014		424.44 NJ
Tetrachloroethylene	127-18-4	P6R3E	8845	1/7/2014	1/24/2014		37,135.26 NJ
Tetrachloroethylene	127-18-4	P6R3I	8846	1/7/2014	1/24/2014		12,733.20 NJ
Tetrachloroethylene	127-18-4	P6R4E	8873	1/15/2014	1/31/2014		75,845.16 NJ
Tetrachloroethylene	127-18-4	P6R4I	8875	1/15/2014	1/31/2014		74,183.04 NJ
Tetrachloroethylene	127-18-4	P6R5E	8870	1/14/2014	1/30/2014		191,581.20 NJ
Tetrachloroethylene	127-18-4	P6R5I	8872	1/14/2014	1/31/2014		173,997.72 NJ
Tetrachloroethylene	127-18-4	P6R6E	8847	1/8/2014	1/24/2014		336,185.64 NJ
Tetrachloroethylene	127-18-4	P6R6I	8851	1/8/2014	1/25/2014		346,158.36 NJ
Tetrachloroethylene	127-18-4	P6R7E	8843	1/7/2014	1/24/2014		579,861.18 NJ
Tetrachloroethylene	127-18-4	P6R7I	8844	1/7/2014	1/24/2014		420,428.88 NJ
Trichloromonofluoromethane	75-69-4	P6R3E	8845	1/7/2014	1/24/2014		4,330.26 NJ
Trichloromonofluoromethane	75-69-4	P6R3I	8846	1/7/2014	1/24/2014		1,438.56 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8839	1/7/2014	1/24/2014		44.64 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8841	1/8/2014	1/24/2014		29.70 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8867	1/14/2014	1/30/2014		14.98 NJ

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Attachment 4 – VOC Non-Target Results (TICs)

VOC non-target results for compounds appearing in Appendix VIII of 40 CFR Part 261

Compound Name	CAS #	Location	Sample ID	Sample Date	Analysis Date	MRL (ppbv)	Concentration (ppbv)
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8869	1/15/2014	1/30/2014		36.81 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8877	1/21/2014	2/5/2014		34.92 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8879	1/22/2014	2/5/2014		41.94 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8897	1/28/2014	2/7/2014		22.88 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8899	1/29/2014	2/7/2014		45.27 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	VOC-A	8901	2/4/2014	2/18/2014		21.68 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P3R1E	8864	1/15/2014	1/31/2014		1,150.56 NJ
Ethane, 1,1,2-Trichloro-1,2,2-trifluoro-	76-13-1	P4R1E	8895	1/20/2014	2/5/2014		26,069.04 NJ
Ethane, 1,1,2-Trichloro-1,2,2-trifluoro-	76-13-1	P4R1E	8924	2/3/2014	2/18/2014		47,647.44 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R1E	8871	1/14/2014	1/30/2014		156.51 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R2E	8849	1/8/2014	1/25/2014		3,321.00 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R2I	8850	1/8/2014	1/25/2014		1,308.96 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R3E	8845	1/7/2014	1/24/2014		70,377.66 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R3I	8846	1/7/2014	1/24/2014		23,201.64 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R4E	8873	1/15/2014	1/31/2014		110,399.76 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R4I	8875	1/15/2014	1/31/2014		99,464.76 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R5E	8870	1/14/2014	1/30/2014		255,616.56 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R5I	8872	1/14/2014	1/31/2014		214,151.04 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R6E	8847	1/8/2014	1/24/2014		333,036.36 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R6I	8851	1/8/2014	1/25/2014		311,253.84 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R7E	8843	1/7/2014	1/24/2014		356,262.30 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P6R7I	8844	1/7/2014	1/24/2014		354,687.66 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P7R6E	8909	2/4/2014	2/18/2014		1.61 NJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	P7R7E	8907	2/3/2014	2/18/2014		8.49 NJ

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Attachment 4 – VOC Non-Target Results (TICs)

VOC non-target results for compounds not appearing in Appendix VIII of 40 CFR Part 261

Compound Name	CAS #	Location	Sample ID	Sample Date	Analysis Date	MRL (ppbv)	Concentration (ppbv)
Pentane	109-66-0	P7R6E	8909	2/4/2014	2/18/2014		2.02 NJ
Pentane	109-66-0	P7R7E	8880	1/21/2014	2/5/2014		3.03 NJ
Pentane	109-66-0	P7R7E	8907	2/3/2014	2/18/2014		1.89 NJ

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with Administrative Order dated May 12, 2014. For simplicity, trichloroethylene results are included with the other target analytes.

Descriptions for qualifiers (i.e., U, J, and NJ) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report. A value will not appear in the MRL column for tentatively identified compounds (TICs).

ppbv = parts per billion by volume.

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Attachment 5 – Hydrogen and Methane Results

Panel 3 – Hydrogen and Methane Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppmv)	Concentration (ppmv)
P3EBA	8859	1/14/2014	1/22/2014	Hydrogen	100	U
P3EBA	8859	1/14/2014	1/22/2014	Methane	100	U
P3EBW	8858	1/14/2014	1/22/2014	Hydrogen	100	U
P3EBW	8858	1/14/2014	1/22/2014	Methane	100	U
P3IBA	8852	1/14/2014	1/22/2014	Hydrogen	100	U
P3IBA	8852	1/14/2014	1/22/2014	Methane	100	U
P3IBW	8853	1/14/2014	1/22/2014	Hydrogen	100	U
P3IBW	8853	1/14/2014	1/22/2014	Methane	100	U
P3R1E	8864	1/15/2014	1/22/2014	Hydrogen	100	U
P3R1E	8864	1/15/2014	1/22/2014	Methane	100	U
P3R2E	8857	1/14/2014	1/22/2014	Hydrogen	100	U
P3R2E	8857	1/14/2014	1/22/2014	Methane	100	U
P3R2I	8863	1/15/2014	1/22/2014	Hydrogen	100	U
P3R2I	8863	1/15/2014	1/22/2014	Methane	100	U
P3R3E	8856	1/14/2014	1/22/2014	Hydrogen	100	U
P3R3E	8856	1/14/2014	1/22/2014	Methane	100	U
P3R3I	8862	1/15/2014	1/22/2014	Hydrogen	100	U
P3R3I	8862	1/15/2014	1/22/2014	Methane	100	U
P3R4E	8855	1/14/2014	1/22/2014	Hydrogen	100	U
P3R4E	8855	1/14/2014	1/22/2014	Methane	100	U
P3R4I	8861	1/15/2014	1/22/2014	Hydrogen	100	U
P3R4I	8861	1/15/2014	1/22/2014	Methane	100	U
P3R5E	8854	1/14/2014	1/22/2014	Hydrogen	100	U
P3R5E	8854	1/14/2014	1/22/2014	Methane	100	U
P3R5I	8860	1/15/2014	1/22/2014	Hydrogen	100	U
P3R5I	8860	1/15/2014	1/22/2014	Methane	100	U

Notes:

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.
ppmv = parts per million by volume.

Panel 3 sample lines determined as obstructed: (1) P3R1I on July 14, 2008
(2) P3R6I on September 22, 2010
(3) P3R7E on August 30, 2010
(4) P3R7I on July 14, 2008
(5) P3R6E on October 10, 2012

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Attachment 5 – Hydrogen and Methane Results

Panel 4 – Hydrogen and Methane Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppmv)	Concentration (ppmv)
P4EBA	8894	1/20/2014	1/28/2014	Hydrogen	100	U
P4EBA	8894	1/20/2014	1/28/2014	Methane	100	U
P4EBA	8923	2/3/2014	2/11/2014	Hydrogen	100	U
P4EBA	8923	2/3/2014	2/11/2014	Methane	100	U
P4EBW	8893	1/20/2014	1/28/2014	Hydrogen	100	113.38
P4EBW	8893	1/20/2014	1/28/2014	Methane	100	U
P4EBW	8922	2/3/2014	2/11/2014	Hydrogen	100	161.62
P4EBW	8922	2/3/2014	2/11/2014	Methane	100	U
P4IBA	8889	1/20/2014	1/28/2014	Hydrogen	100	U
P4IBA	8889	1/20/2014	1/28/2014	Methane	100	U
P4IBA	8918	2/3/2014	2/11/2014	Hydrogen	100	U
P4IBA	8918	2/3/2014	2/11/2014	Methane	100	U
P4IBW	8888	1/20/2014	1/28/2014	Hydrogen	100	49.12 J
P4IBW	8888	1/20/2014	1/28/2014	Methane	100	U
P4IBW	8917	2/3/2014	2/11/2014	Hydrogen	100	51.62 J
P4IBW	8917	2/3/2014	2/11/2014	Methane	100	U
P4R1E	8895	1/20/2014	1/28/2014	Hydrogen	100	107.80
P4R1E	8895	1/20/2014	1/28/2014	Methane	100	U
P4R1E	8924	2/3/2014	2/11/2014	Hydrogen	100	164.98
P4R1E	8924	2/3/2014	2/11/2014	Methane	100	U
P4R1I	8887	1/20/2014	1/28/2014	Hydrogen	100	86.78 J
P4R1I	8887	1/20/2014	1/28/2014	Methane	100	U
P4R1I	8916	2/3/2014	2/11/2014	Hydrogen	100	131.16
P4R1I	8916	2/3/2014	2/11/2014	Methane	100	U
P4R2E	8892	1/20/2014	1/28/2014	Hydrogen	100	118.32
P4R2E	8892	1/20/2014	1/28/2014	Methane	100	U
P4R2E	8921	2/3/2014	2/11/2014	Hydrogen	100	178.98

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Attachment 5 – Hydrogen and Methane Results

Panel 4 – Hydrogen and Methane Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppmv)	Concentration (ppmv)
P4R2E	8921	2/3/2014	2/11/2014	Methane	100	U
P4R2I	8886	1/20/2014	1/28/2014	Hydrogen	100	87.40 J
P4R2I	8886	1/20/2014	1/28/2014	Methane	100	U
P4R2I	8915	2/3/2014	2/11/2014	Hydrogen	100	115.78
P4R2I	8915	2/3/2014	2/11/2014	Methane	100	U
P4R3E	8891	1/20/2014	1/28/2014	Hydrogen	100	125.06
P4R3E	8891	1/20/2014	1/28/2014	Methane	100	U
P4R3E	8920	2/3/2014	2/11/2014	Hydrogen	100	162.46
P4R3E	8920	2/3/2014	2/11/2014	Methane	100	U
P4R3I	8885	1/20/2014	1/28/2014	Hydrogen	100	75.88 J
P4R3I	8885	1/20/2014	1/28/2014	Methane	100	U
P4R3I	8914	2/3/2014	2/11/2014	Hydrogen	100	137.14
P4R3I	8914	2/3/2014	2/11/2014	Methane	100	U
P4R4I	8884	1/20/2014	1/28/2014	Hydrogen	100	97.24 J
P4R4I	8884	1/20/2014	1/28/2014	Methane	100	U
P4R4I	8913	2/3/2014	2/11/2014	Hydrogen	100	136.58
P4R4I	8913	2/3/2014	2/11/2014	Methane	100	U
P4R5I	8883	1/20/2014	1/28/2014	Hydrogen	100	90.82 J
P4R5I	8883	1/20/2014	1/28/2014	Methane	100	U
P4R5I	8912	2/3/2014	2/11/2014	Hydrogen	100	136.82
P4R5I	8912	2/3/2014	2/11/2014	Methane	100	U
P4R6I	8882	1/20/2014	1/28/2014	Hydrogen	100	86.12 J
P4R6I	8882	1/20/2014	1/28/2014	Methane	100	U
P4R6I	8911	2/3/2014	2/11/2014	Hydrogen	100	139.82
P4R6I	8911	2/3/2014	2/11/2014	Methane	100	U
P4R7E	8890	1/20/2014	1/28/2014	Hydrogen	100	U
P4R7E	8890	1/20/2014	1/28/2014	Methane	100	U
P4R7E	8919	2/3/2014	2/11/2014	Hydrogen	100	171.18

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Attachment 5 – Hydrogen and Methane Results

Panel 4 – Hydrogen and Methane Results

Location	Sample ID	Sample Date	Analysis Date	Compound Name	MRL (ppmv)	Concentration (ppmv)
P4R7E	8919	2/3/2014	2/11/2014	Methane	100	U
P4R7I	8881	1/20/2014	1/28/2014	Hydrogen	100	68.98 J
P4R7I	8881	1/20/2014	1/28/2014	Methane	100	U
P4R7I	8910	2/3/2014	2/11/2014	Hydrogen	100	125.84
P4R7I	8910	2/3/2014	2/11/2014	Methane	100	U

Notes:

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.

ppmv = parts per million by volume.

Panel 4 sample lines determined as obstructed: (1) P4R4E on April 7, 2011
(2) P4R6E on December 13, 2011
(3) P4R5E on August 14, 2012

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
1/24/2014	8839	1/24/2014	8839-dup	1,1,1-Trichloroethane	104.82*	104.06*	0.76	0.73
1/24/2014	8839	1/24/2014	8839-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
1/24/2014	8839	1/24/2014	8839-dup	1,1-Dichloroethylene	3.53* J	3.37* J	0.16	4.64
1/24/2014	8839	1/24/2014	8839-dup	1,2-Dichloroethane	U	U	0	0.00
1/24/2014	8839	1/24/2014	8839-dup	Carbon Tetrachloride	825.73*	830.49*	-4.76	0.57
1/24/2014	8839	1/24/2014	8839-dup	Chlorobenzene	U	U	0	0.00
1/24/2014	8839	1/24/2014	8839-dup	Chloroform	72.29*	70.90*	1.39	1.94
1/24/2014	8839	1/24/2014	8839-dup	Methylene Chloride	12.43* J	12.27* J	0.16	1.30
1/24/2014	8839	1/24/2014	8839-dup	Toluene	1.07* J	1.07* J	0	0.00
1/24/2014	8839	1/24/2014	8839-dup	Trichloroethylene	341.19*	337.50*	3.69	1.09
1/25/2014	8849	1/25/2014	8849-dup	1,1,1-Trichloroethane	3518.64	3542.94	-24.3	0.69
1/25/2014	8849	1/25/2014	8849-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
1/25/2014	8849	1/25/2014	8849-dup	1,1-Dichloroethylene	U	U	0	0.00
1/25/2014	8849	1/25/2014	8849-dup	1,2-Dichloroethane	U	U	0	0.00
1/25/2014	8849	1/25/2014	8849-dup	Carbon Tetrachloride	9180.54	9277.74	-97.2	1.05
1/25/2014	8849	1/25/2014	8849-dup	Chlorobenzene	U	U	0	0.00
1/25/2014	8849	1/25/2014	8849-dup	Chloroform	267.3	259.2	8.1	3.08
1/25/2014	8849	1/25/2014	8849-dup	Methylene Chloride	69.66 J	66.42 J	3.24	4.76
1/25/2014	8849	1/25/2014	8849-dup	Toluene	11.34 J	11.34 J	0	0.00
1/25/2014	8849	1/25/2014	8849-dup	Trichloroethylene	3546.18	3528.36	17.82	0.50
1/30/2014	8867	1/30/2014	8867-dup	1,1,1-Trichloroethane	35.49*	35.42*	0.07	0.20
1/30/2014	8867	1/30/2014	8867-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
1/30/2014	8867	1/30/2014	8867-dup	1,1-Dichloroethylene	U	U	0	0.00
1/30/2014	8867	1/30/2014	8867-dup	1,2-Dichloroethane	U	U	0	0.00
1/30/2014	8867	1/30/2014	8867-dup	Carbon Tetrachloride	174.48*	174.57*	-0.09	0.05
1/30/2014	8867	1/30/2014	8867-dup	Chlorobenzene	U	U	0	0.00
1/30/2014	8867	1/30/2014	8867-dup	Chloroform	10.33*	10.20*	0.13	1.27
1/30/2014	8867	1/30/2014	8867-dup	Methylene Chloride	3.73*	3.80*	-0.07	1.86
1/30/2014	8867	1/30/2014	8867-dup	Toluene	0.57* J	0.57* J	0	0.00
1/30/2014	8867	1/30/2014	8867-dup	Trichloroethylene	64.80*	65.69*	-0.89	1.36
1/31/2014	8864	1/31/2014	8864-dup	1,1,1-Trichloroethane	2799.36	2684.16	115.2	4.20
1/31/2014	8864	1/31/2014	8864-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
1/31/2014	8864	1/31/2014	8864-dup	1,1-Dichloroethylene	16.56 J	14.4 J	2.16	13.95
1/31/2014	8864	1/31/2014	8864-dup	1,2-Dichloroethane	5.76 J	5.76 J	0	0.00

Relative Percent Difference (RPD)

RPD = $\text{ABS} (A - B) / [(A + B) / 2] \times 100$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
1/31/2014	8864	1/31/2014	8864-dup	Carbon Tetrachloride	4203.36	4115.52	87.84	2.11
1/31/2014	8864	1/31/2014	8864-dup	Chlorobenzene	U	U	0	0.00
1/31/2014	8864	1/31/2014	8864-dup	Chloroform	111.6	105.12	6.48	5.98
1/31/2014	8864	1/31/2014	8864-dup	Methylene Chloride	568.08	566.64	1.44	0.25
1/31/2014	8864	1/31/2014	8864-dup	Toluene	41.76 J	36 J	5.76	14.81
1/31/2014	8864	1/31/2014	8864-dup	Trichloroethylene	475.92	444.96	30.96	6.72
2/5/2014	8877	2/5/2014	8877-dup	1,1,1-Trichloroethane	65.25*	66.44*	-1.19	1.81
2/5/2014	8877	2/5/2014	8877-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
2/5/2014	8877	2/5/2014	8877-dup	1,1-Dichloroethylene	1.32* J	1.32* J	0	0.00
2/5/2014	8877	2/5/2014	8877-dup	1,2-Dichloroethane	U	U	0	0.00
2/5/2014	8877	2/5/2014	8877-dup	Carbon Tetrachloride	527.47*	556.00*	-28.53	5.27
2/5/2014	8877	2/5/2014	8877-dup	Chlorobenzene	U	U	0	0.00
2/5/2014	8877	2/5/2014	8877-dup	Chloroform	55.74*	56.93*	-1.19	2.11
2/5/2014	8877	2/5/2014	8877-dup	Methylene Chloride	10.96* J	11.22* J	-0.26	2.34
2/5/2014	8877	2/5/2014	8877-dup	Toluene	1.05* J	0.92* J	0.13	13.20
2/5/2014	8877	2/5/2014	8877-dup	Trichloroethylene	212.41*	211.88*	0.53	0.25
2/5/2014	8895	2/5/2014	8895-dup	1,1,1-Trichloroethane	35575.2	34875.36	699.84	1.99
2/5/2014	8895	2/5/2014	8895-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
2/5/2014	8895	2/5/2014	8895-dup	1,1-Dichloroethylene	U	U	0	0.00
2/5/2014	8895	2/5/2014	8895-dup	1,2-Dichloroethane	U	U	0	0.00
2/5/2014	8895	2/5/2014	8895-dup	Carbon Tetrachloride	209718.72	206452.8	3265.92	1.57
2/5/2014	8895	2/5/2014	8895-dup	Chlorobenzene	U	U	0	0.00
2/5/2014	8895	2/5/2014	8895-dup	Chloroform	11314.08	11430.72	-116.64	1.03
2/5/2014	8895	2/5/2014	8895-dup	Methylene Chloride	5890.32	5773.68 J	116.64	2.00
2/5/2014	8895	2/5/2014	8895-dup	Toluene	291.6 J	291.6 J	0	0.00
2/5/2014	8895	2/5/2014	8895-dup	Trichloroethylene	57153.6	58086.72	-933.12	1.62
2/7/2014	8897	2/7/2014	8897-dup	1,1,1-Trichloroethane	34.82*	38.74*	-3.92	10.66
2/7/2014	8897	2/7/2014	8897-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
2/7/2014	8897	2/7/2014	8897-dup	1,1-Dichloroethylene	U	U	0	0.00
2/7/2014	8897	2/7/2014	8897-dup	1,2-Dichloroethane	U	U	0	0.00
2/7/2014	8897	2/7/2014	8897-dup	Carbon Tetrachloride	229.14*	247.41*	-18.27	7.67
2/7/2014	8897	2/7/2014	8897-dup	Chlorobenzene	U	U	0	0.00
2/7/2014	8897	2/7/2014	8897-dup	Chloroform	21.06*	24.91*	-3.85	16.75
2/7/2014	8897	2/7/2014	8897-dup	Methylene Chloride	5.99*	6.22*	-0.23	3.77
2/7/2014	8897	2/7/2014	8897-dup	Toluene	0.41* J	0.41* J	0	0.00

Relative Percent Difference (RPD)

$$\text{RPD} = \text{ABS} (A - B) / [(A + B) / 2] \times 100$$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
2/7/2014	8897	2/7/2014	8897-dup	Trichloroethylene	80.63*	92.85*	-12.22	14.09
2/18/2014	8901	2/18/2014	8901-dup	1,1,1-Trichloroethane	47.90*	46.82*	1.08	2.28
2/18/2014	8901	2/18/2014	8901-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
2/18/2014	8901	2/18/2014	8901-dup	1,1-Dichloroethylene	U	0.33* J	-0.33	200.00
2/18/2014	8901	2/18/2014	8901-dup	1,2-Dichloroethane	U	U	0	0.00
2/18/2014	8901	2/18/2014	8901-dup	Carbon Tetrachloride	238.78*	242.16*	-3.38	1.41
2/18/2014	8901	2/18/2014	8901-dup	Chlorobenzene	U	U	0	0.00
2/18/2014	8901	2/18/2014	8901-dup	Chloroform	18.10*	17.77*	0.33	1.84
2/18/2014	8901	2/18/2014	8901-dup	Methylene Chloride	6.21* J	6.14* J	0.07	1.13
2/18/2014	8901	2/18/2014	8901-dup	Toluene	0.74* J	0.74* J	0	0.00
2/18/2014	8901	2/18/2014	8901-dup	Trichloroethylene	82.29*	77.50*	4.79	6.00
2/18/2014	8924	2/18/2014	8924-dup	1,1,1-Trichloroethane	65435.04	66951.36	-1516.32	2.29
2/18/2014	8924	2/18/2014	8924-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
2/18/2014	8924	2/18/2014	8924-dup	1,1-Dichloroethylene	U	U	0	0.00
2/18/2014	8924	2/18/2014	8924-dup	1,2-Dichloroethane	U	U	0	0.00
2/18/2014	8924	2/18/2014	8924-dup	Carbon Tetrachloride	365841.36	382462.56	-16621.2	4.44
2/18/2014	8924	2/18/2014	8924-dup	Chlorobenzene	U	U	0	0.00
2/18/2014	8924	2/18/2014	8924-dup	Chloroform	18954	20353.68	-1399.68	7.12
2/18/2014	8924	2/18/2014	8924-dup	Methylene Chloride	9739.44	10089.36	-349.92	3.53
2/18/2014	8924	2/18/2014	8924-dup	Toluene	408.24 J	408.24 J	0	0.00
2/18/2014	8924	2/18/2014	8924-dup	Trichloroethylene	94711.68	100602	-5890.32	6.03
3/4/2014	021214	3/4/2014	021214-dup	1,1,1-Trichloroethane	U	U	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	1,1-Dichloroethylene	U	U	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	1,2-Dichloroethane	U	U	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	Carbon Tetrachloride	0.22 J	0.22 J	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	Chlorobenzene	U	U	0	0.00
3/4/2014	021214	3/4/2014	021214-dup	Chloroform	1.76 J	1.78 J	-0.02	1.13
3/4/2014	021214	3/4/2014	021214-dup	Methylene Chloride	0.14 J	0.12 J	0.02	15.38
3/4/2014	021214	3/4/2014	021214-dup	Toluene	0.16 J	0.14 J	0.02	13.33
3/4/2014	021214	3/4/2014	021214-dup	Trichloroethylene	1.36 J	1.32 J	0.04	2.99
3/10/2014	8930	3/10/2014	8930-dup	1,1,1-Trichloroethane	U	U	0	0.00
3/10/2014	8930	3/10/2014	8930-dup	1,1,2,2-Tetrachloroethane	U	0.12 J	-0.12	200.00
3/10/2014	8930	3/10/2014	8930-dup	1,1-Dichloroethylene	U	U	0	0.00
3/10/2014	8930	3/10/2014	8930-dup	1,2-Dichloroethane	U	U	0	0.00

Relative Percent Difference (RPD)

RPD = $\text{ABS} (A - B) / [(A + B) / 2] \times 100$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
3/10/2014	8930	3/10/2014	8930-dup	Carbon Tetrachloride	0.14 J	0.14 J	0	0.00
3/10/2014	8930	3/10/2014	8930-dup	Chlorobenzene	U	U	0	0.00
3/10/2014	8930	3/10/2014	8930-dup	Chloroform	0.14 J	0.12 J	0.02	15.38
3/10/2014	8930	3/10/2014	8930-dup	Methylene Chloride	U	U	0	0.00
3/10/2014	8930	3/10/2014	8930-dup	Toluene	0.18 J	0.16 J	0.02	11.76
3/10/2014	8930	3/10/2014	8930-dup	Trichloroethylene	0.14 J	0.16 J	-0.02	13.33
3/18/2014	8934	3/18/2014	8934-dup	1,1,1-Trichloroethane	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	1,1-Dichloroethylene	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	1,2-Dichloroethane	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	Carbon Tetrachloride	0.32 J	0.34 J	-0.02	6.06
3/18/2014	8934	3/18/2014	8934-dup	Chlorobenzene	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	Chloroform	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	Methylene Chloride	U	U	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	Toluene	0.08 J	0.08 J	0	0.00
3/18/2014	8934	3/18/2014	8934-dup	Trichloroethylene	0.36 J	0.38 J	-0.02	5.41
3/24/2014	8938	3/24/2014	8938-dup	1,1,1-Trichloroethane	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	1,1-Dichloroethylene	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	1,2-Dichloroethane	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Carbon Tetrachloride	0.24 J	0.24 J	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Chlorobenzene	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Chloroform	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Methylene Chloride	U	U	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Toluene	0.06 J	0.06 J	0	0.00
3/24/2014	8938	3/24/2014	8938-dup	Trichloroethylene	0.26 J	0.24 J	0.02	8.00
3/28/2014	8942	3/28/2014	8942-dup	1,1,1-Trichloroethane	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	1,1-Dichloroethylene	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	1,2-Dichloroethane	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	Carbon Tetrachloride	0.26 J	0.28 J	-0.02	7.41
3/28/2014	8942	3/28/2014	8942-dup	Chlorobenzene	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	Chloroform	0.28 J	0.28 J	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	Methylene Chloride	U	U	0	0.00
3/28/2014	8942	3/28/2014	8942-dup	Toluene	0.12 J	0.14 J	-0.02	15.38

Relative Percent Difference (RPD)

RPD = $ABS(A - B) / [(A + B) / 2] \times 100$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
3/28/2014	8942	3/28/2014	8942-dup	Trichloroethylene	0.18 J	0.16 J	0.02	11.76
4/7/2014	8944	4/7/2014	8944-dup	1,1,1-Trichloroethane	0.01 J	0.0095 J	0.00	0.00
4/7/2014	8944	4/7/2014	8944-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
4/7/2014	8944	4/7/2014	8944-dup	1,1-Dichloroethylene	U	U	0	0.00
4/7/2014	8944	4/7/2014	8944-dup	1,2-Dichloroethane	0.029 J	0.03 J	-0.00	0.00
4/7/2014	8944	4/7/2014	8944-dup	Carbon Tetrachloride	0.12 J	0.12 J	0	0.00
4/7/2014	8944	4/7/2014	8944-dup	Chlorobenzene	U	U	0	0.00
4/7/2014	8944	4/7/2014	8944-dup	Chloroform	U	U	0	0.00
4/7/2014	8944	4/7/2014	8944-dup	Methylene Chloride	0.16 J	0.19 J	-0.03	17.14
4/7/2014	8944	4/7/2014	8944-dup	Toluene	0.18	0.17	0.01	5.71
4/7/2014	8944	4/7/2014	8944-dup	Trichloroethylene	0.022 J	0.021 J	0.00	0.00
4/8/2014	8950	4/8/2014	8950-dup	1,1,1-Trichloroethane	0.1 J	U	0.1	200.00
4/8/2014	8950	4/8/2014	8950-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	1,1-Dichloroethylene	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	1,2-Dichloroethane	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	Carbon Tetrachloride	0.42	0.44	-0.02	4.65
4/8/2014	8950	4/8/2014	8950-dup	Chlorobenzene	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	Chloroform	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	Methylene Chloride	U	U	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	Toluene	0.18 J	0.18 J	0	0.00
4/8/2014	8950	4/8/2014	8950-dup	Trichloroethylene	0.52	0.52	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	1,1,1-Trichloroethane	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	1,1-Dichloroethylene	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	1,2-Dichloroethane	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Carbon Tetrachloride	0.16 J	0.16 J	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Chlorobenzene	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Chloroform	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Methylene Chloride	U	U	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Toluene	0.26 J	0.26 J	0	0.00
4/15/2014	8962	4/15/2014	8962-dup	Trichloroethylene	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	1,1,1-Trichloroethane	0.016 J	0.015 J	0.00	0.00
4/11/2014	8954	4/11/2014	8954-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	1,1-Dichloroethylene	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	1,2-Dichloroethane	0.019 J	0.019 J	0	0.00

Relative Percent Difference (RPD)

$$RPD = \text{ABS} (A - B) / [(A + B) / 2] \times 100$$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
4/11/2014	8954	4/11/2014	8954-dup	Carbon Tetrachloride	0.084 J	0.084 J	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	Chlorobenzene	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	Chloroform	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	Methylene Chloride	U	U	0	0.00
4/11/2014	8954	4/11/2014	8954-dup	Toluene	0.24	0.25	-0.01	4.08
4/11/2014	8954	4/11/2014	8954-dup	Trichloroethylene	0.023 J	0.024 J	-0.00	0.00
4/21/2014	8967	4/21/2014	8967-dup	1,1,1-Trichloroethane	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	1,1-Dichloroethylene	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	1,2-Dichloroethane	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Carbon Tetrachloride	0.18 J	0.18 J	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Chlorobenzene	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Chloroform	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Methylene Chloride	U	U	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Toluene	0.1 J	0.1 J	0	0.00
4/21/2014	8967	4/21/2014	8967-dup	Trichloroethylene	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	1,1,1-Trichloroethane	0.16 J	0.14 J	0.02	13.33
5/1/2014	8968	5/1/2014	8968-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	1,1-Dichloroethylene	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	1,2-Dichloroethane	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	Carbon Tetrachloride	0.7	0.66	0.04	5.88
5/1/2014	8968	5/1/2014	8968-dup	Chlorobenzene	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	Chloroform	0.32 J	0.3 J	0.02	6.45
5/1/2014	8968	5/1/2014	8968-dup	Methylene Chloride	U	U	0	0.00
5/1/2014	8968	5/1/2014	8968-dup	Toluene	0.16 J	0.14 J	0.02	13.33
5/1/2014	8968	5/1/2014	8968-dup	Trichloroethylene	0.92	0.96	-0.04	4.26
5/5/2014	8972	5/5/2014	8972-dup	1,1,1-Trichloroethane	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	1,1-Dichloroethylene	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	1,2-Dichloroethane	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	Carbon Tetrachloride	0.22 J	0.22 J	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	Chlorobenzene	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	Chloroform	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	Methylene Chloride	U	U	0	0.00
5/5/2014	8972	5/5/2014	8972-dup	Toluene	0.08 J	0.08 J	0	0.00

Relative Percent Difference (RPD)

$$\text{RPD} = \text{ABS} (A - B) / [(A + B) / 2] \times 100$$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
5/5/2014	8972	5/5/2014	8972-dup	Trichloroethylene	0.16 J	0.18 J	-0.02	11.76
5/12/2014	8976	5/12/2014	8976-dup	1,1,1-Trichloroethane	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	1,1-Dichloroethylene	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	1,2-Dichloroethane	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	Carbon Tetrachloride	0.1 J	0.12 J	-0.02	18.18
5/12/2014	8976	5/12/2014	8976-dup	Chlorobenzene	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	Chloroform	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	Methylene Chloride	U	U	0	0.00
5/12/2014	8976	5/12/2014	8976-dup	Toluene	0.18 J	0.16 J	0.02	11.76
5/12/2014	8976	5/12/2014	8976-dup	Trichloroethylene	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	1,1,1-Trichloroethane	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	1,1-Dichloroethylene	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	1,2-Dichloroethane	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Carbon Tetrachloride	0.1 J	0.1 J	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Chlorobenzene	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Chloroform	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Methylene Chloride	U	U	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Toluene	0.06 J	0.06 J	0	0.00
5/19/2014	8982	5/19/2014	8982-dup	Trichloroethylene	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	1,1,1-Trichloroethane	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	1,1-Dichloroethylene	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	1,2-Dichloroethane	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Carbon Tetrachloride	0.14 J	0.14 J	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Chlorobenzene	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Chloroform	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Methylene Chloride	U	U	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Toluene	0.26 J	0.26 J	0	0.00
5/29/2014	8990	5/29/2014	8990-dup	Trichloroethylene	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	1,1,1-Trichloroethane	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	1,1-Dichloroethylene	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	1,2-Dichloroethane	U	U	0	0.00

Relative Percent Difference (RPD)

$$RPD = \text{ABS} (A - B) / [(A + B) / 2] \times 100$$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
6/6/2014	8992	6/6/2014	8992-dup	Carbon Tetrachloride	0.1 J	U	0.1	200.00
6/6/2014	8992	6/6/2014	8992-dup	Chlorobenzene	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	Chloroform	U	U	0	0.00
6/6/2014	8992	6/6/2014	8992-dup	Methylene Chloride	0.32 J	0.3 J	0.02	6.45
6/6/2014	8992	6/6/2014	8992-dup	Toluene	0.2 J	0.18 J	0.02	10.53
6/6/2014	8992	6/6/2014	8992-dup	Trichloroethylene	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	1,1,1-Trichloroethane	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	1,1-Dichloroethylene	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	1,2-Dichloroethane	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Carbon Tetrachloride	0.12 J	0.12 J	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Chlorobenzene	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Chloroform	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Methylene Chloride	U	U	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Toluene	0.1 J	0.1 J	0	0.00
6/6/2014	8996	6/6/2014	8996-dup	Trichloroethylene	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	1,1,1-Trichloroethane	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	1,1-Dichloroethylene	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	1,2-Dichloroethane	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	Carbon Tetrachloride	0.14 J	0.14 J	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	Chlorobenzene	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	Chloroform	U	U	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	Methylene Chloride	0.12 J	U	0.12	200.00
6/16/2014	9002	6/16/2014	9002-dup	Toluene	0.14 J	0.14 J	0	0.00
6/16/2014	9002	6/16/2014	9002-dup	Trichloroethylene	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	1,1,1-Trichloroethane	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	1,1-Dichloroethylene	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	1,2-Dichloroethane	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	Carbon Tetrachloride	0.1 J	0.1 J	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	Chlorobenzene	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	Chloroform	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	Methylene Chloride	U	U	0	0.00
6/25/2014	9006	6/25/2014	9006-dup	Toluene	0.14 J	0.14 J	0	0.00

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$

ABS = Absolute value of a number

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Attachment 6A – VOCs – Precision of Laboratory Sample Duplicates

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
6/25/2014	9006	6/25/2014	9006-dup	Trichloroethylene	0.12 J	0.12 J	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	1,1,1-Trichloroethane	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	1,1,2,2-Tetrachloroethane	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	1,1-Dichloroethylene	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	1,2-Dichloroethane	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	Carbon Tetrachloride	0.1 J	0.1 J	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	Chlorobenzene	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	Chloroform	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	Methylene Chloride	U	U	0	0.00
7/2/2014	9012	7/2/2014	9012-dup	Toluene	0.14 J	0.16 J	-0.02	13.33
7/2/2014	9012	7/2/2014	9012-dup	Trichloroethylene	U	U	0	0.00

Notes:

All samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with Administrative Order dated May 12, 2014. Quality assurance objectives were not assigned for trichloroethylene in the Administrative Order. However, the Permittees have established these for the laboratory in the laboratory statement of work.

Descriptions for qualifiers (i.e. U, and J) are presented in section 1.2 of this report.

ppbv = parts per billion by volume.

* Normalized target VOC concentration.

† Technical acceptance criterion for duplicate analysis of a sample is ≤ 25 RPD, which is only applicable if one or both values are not flagged "U" or "J."

Relative Percent Difference (RPD)

RPD = $\text{ABS} (A - B) / [(A + B) / 2] \times 100$ ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
1/24/2014	1/24/2014	1,1,1-Trichloroethane	103.98	107.27	-3.29	3.11
1/24/2014	1/24/2014	1,1,2,2-Tetrachloroethane	117.32	118.82	-1.50	1.27
1/24/2014	1/24/2014	1,1-Dichloroethylene	95.14	94.57	0.57	0.60
1/24/2014	1/24/2014	1,2-Dichloroethane	99.55	101.69	-2.14	2.13
1/24/2014	1/24/2014	Carbon Tetrachloride	108.64	112.54	-3.90	3.53
1/24/2014	1/24/2014	Chlorobenzene	119.53	122.29	-2.76	2.28
1/24/2014	1/24/2014	Chloroform	96.35	96.86	-0.51	0.53
1/24/2014	1/24/2014	Methylene Chloride	100.66	100.21	0.45	0.45
1/24/2014	1/24/2014	Toluene	114.50	116.27	-1.77	1.53
1/24/2014	1/24/2014	Trichloroethylene	111.84	115.52	-3.68	3.24
1/24/2014	1/25/2014	1,1,1-Trichloroethane	101.49	109.53	-8.04	7.62
1/24/2014	1/25/2014	1,1,2,2-Tetrachloroethane	128.14	131.20	-3.06	2.36
1/24/2014	1/25/2014	1,1-Dichloroethylene	89.71	96.67	-6.96	7.47
1/24/2014	1/25/2014	1,2-Dichloroethane	100.33	104.66	-4.33	4.22
1/24/2014	1/25/2014	Carbon Tetrachloride	109.83	115.98	-6.15	5.45
1/24/2014	1/25/2014	Chlorobenzene	124.62	129.17	-4.55	3.59
1/24/2014	1/25/2014	Chloroform	96.00	99.20	-3.20	3.28
1/24/2014	1/25/2014	Methylene Chloride	100.00	104.10	-4.10	4.02
1/24/2014	1/25/2014	Toluene	116.37	120.88	-4.51	3.80
1/24/2014	1/25/2014	Trichloroethylene	113.14	120.86	-7.72	6.60
1/30/2014	1/30/2014	1,1,1-Trichloroethane	98.84	98.14	0.70	0.71
1/30/2014	1/30/2014	1,1,2,2-Tetrachloroethane	118.85	112.00	6.85	5.93
1/30/2014	1/30/2014	1,1-Dichloroethylene	88.51	88.61	-0.10	0.11
1/30/2014	1/30/2014	1,2-Dichloroethane	94.43	89.38	5.05	5.49
1/30/2014	1/30/2014	Carbon Tetrachloride	104.58	104.02	0.56	0.54
1/30/2014	1/30/2014	Chlorobenzene	114.16	107.09	7.07	6.39
1/30/2014	1/30/2014	Chloroform	90.16	86.92	3.24	3.66
1/30/2014	1/30/2014	Methylene Chloride	96.76	95.51	1.25	1.30
1/30/2014	1/30/2014	Toluene	109.87	100.23	9.64	9.18
1/30/2014	1/30/2014	Trichloroethylene	107.44	105.54	1.90	1.78
1/31/2014	1/31/2014	1,1,1-Trichloroethane	96.86	100.73	-3.87	3.92
1/31/2014	1/31/2014	1,1,2,2-Tetrachloroethane	131.44	124.50	6.94	5.42
1/31/2014	1/31/2014	1,1-Dichloroethylene	82.99	88.27	-5.28	6.17
1/31/2014	1/31/2014	1,2-Dichloroethane	93.71	96.70	-2.99	3.14
1/31/2014	1/31/2014	Carbon Tetrachloride	105.22	107.05	-1.83	1.72

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
1/31/2014	1/31/2014	Chlorobenzene	121.01	115.24	5.77	4.88
1/31/2014	1/31/2014	Chloroform	89.61	92.16	-2.55	2.81
1/31/2014	1/31/2014	Methylene Chloride	95.71	98.41	-2.70	2.78
1/31/2014	1/31/2014	Toluene	114.33	108.15	6.18	5.56
1/31/2014	1/31/2014	Trichloroethylene	111.22	112.00	-0.78	0.70
2/5/2014	2/5/2014	1,1,1-Trichloroethane	89.92	88.98	0.94	1.05
2/5/2014	2/5/2014	1,1,2,2-Tetrachloroethane	96.21	93.71	2.50	2.63
2/5/2014	2/5/2014	1,1-Dichloroethylene	98.44	99.90	-1.46	1.47
2/5/2014	2/5/2014	1,2-Dichloroethane	91.03	89.88	1.15	1.27
2/5/2014	2/5/2014	Carbon Tetrachloride	88.08	85.92	2.16	2.48
2/5/2014	2/5/2014	Chlorobenzene	94.83	93.42	1.41	1.50
2/5/2014	2/5/2014	Chloroform	92.96	92.84	0.12	0.13
2/5/2014	2/5/2014	Methylene Chloride	96.83	100.76	-3.93	3.98
2/5/2014	2/5/2014	Toluene	99.50	99.10	0.40	0.40
2/5/2014	2/5/2014	Trichloroethylene	93.28	93.44	-0.16	0.17
2/7/2014	2/7/2014	1,1,1-Trichloroethane	90.57	87.18	3.39	3.81
2/7/2014	2/7/2014	1,1,2,2-Tetrachloroethane	92.95	90.45	2.50	2.73
2/7/2014	2/7/2014	1,1-Dichloroethylene	97.24	99.70	-2.46	2.50
2/7/2014	2/7/2014	1,2-Dichloroethane	92.50	87.53	4.97	5.52
2/7/2014	2/7/2014	Carbon Tetrachloride	89.01	84.39	4.62	5.33
2/7/2014	2/7/2014	Chlorobenzene	88.62	90.58	-1.96	2.19
2/7/2014	2/7/2014	Chloroform	93.14	91.59	1.55	1.68
2/7/2014	2/7/2014	Methylene Chloride	95.84	100.14	-4.30	4.39
2/7/2014	2/7/2014	Toluene	96.60	96.06	0.54	0.56
2/7/2014	2/7/2014	Trichloroethylene	92.32	90.80	1.52	1.66
2/18/2014	2/18/2014	1,1,1-Trichloroethane	89.24	86.08	3.16	3.60
2/18/2014	2/18/2014	1,1,2,2-Tetrachloroethane	93.05	89.67	3.38	3.70
2/18/2014	2/18/2014	1,1-Dichloroethylene	96.36	97.03	-0.67	0.69
2/18/2014	2/18/2014	1,2-Dichloroethane	88.06	85.32	2.74	3.16
2/18/2014	2/18/2014	Carbon Tetrachloride	88.21	83.71	4.50	5.23
2/18/2014	2/18/2014	Chlorobenzene	92.99	90.70	2.29	2.49
2/18/2014	2/18/2014	Chloroform	90.69	89.20	1.49	1.66
2/18/2014	2/18/2014	Methylene Chloride	94.31	96.80	-2.49	2.61
2/18/2014	2/18/2014	Toluene	94.63	93.50	1.13	1.20
2/18/2014	2/18/2014	Trichloroethylene	94.12	91.68	2.44	2.63
3/4/2014	3/4/2014	1,1,1-Trichloroethane	87.98	85.25	2.73	3.15
3/4/2014	3/4/2014	1,1,2,2-Tetrachloroethane	89.11	87.11	2.00	2.27

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
3/4/2014	3/4/2014	1,1-Dichloroethylene	97.75	99.77	-2.02	2.05
3/4/2014	3/4/2014	1,2-Dichloroethane	83.07	82.49	0.58	0.70
3/4/2014	3/4/2014	Carbon Tetrachloride	87.69	83.26	4.43	5.18
3/4/2014	3/4/2014	Chlorobenzene	86.02	86.06	-0.04	0.05
3/4/2014	3/4/2014	Chloroform	90.29	89.90	0.39	0.43
3/4/2014	3/4/2014	Methylene Chloride	94.47	98.14	-3.67	3.81
3/4/2014	3/4/2014	Toluene	89.40	90.60	-1.20	1.33
3/4/2014	3/4/2014	Trichloroethylene	90.16	88.12	2.04	2.29
3/10/2014	3/10/2014	1,1,1-Trichloroethane	87.13	87.21	-0.08	0.09
3/10/2014	3/10/2014	1,1,2,2-Tetrachloroethane	84.56	84.45	0.11	0.13
3/10/2014	3/10/2014	1,1-Dichloroethylene	92.51	95.77	-3.26	3.46
3/10/2014	3/10/2014	1,2-Dichloroethane	85.17	85.28	-0.11	0.13
3/10/2014	3/10/2014	Carbon Tetrachloride	84.94	83.62	1.32	1.57
3/10/2014	3/10/2014	Chlorobenzene	88.58	89.09	-0.51	0.57
3/10/2014	3/10/2014	Chloroform	91.87	92.64	-0.77	0.83
3/10/2014	3/10/2014	Methylene Chloride	91.34	96.06	-4.72	5.04
3/10/2014	3/10/2014	Toluene	92.13	93.58	-1.45	1.56
3/10/2014	3/10/2014	Trichloroethylene	90.36	91.06	-0.70	0.77
3/18/2014	3/18/2014	1,1,1-Trichloroethane	98.02	92.48	5.54	5.82
3/18/2014	3/18/2014	1,1,2,2-Tetrachloroethane	96.12	87.96	8.16	8.87
3/18/2014	3/18/2014	1,1-Dichloroethylene	95.85	101.89	-6.04	6.11
3/18/2014	3/18/2014	1,2-Dichloroethane	95.34	94.76	0.58	0.61
3/18/2014	3/18/2014	Carbon Tetrachloride	99.42	91.54	7.88	8.25
3/18/2014	3/18/2014	Chlorobenzene	103.30	95.53	7.77	7.82
3/18/2014	3/18/2014	Chloroform	97.23	95.53	1.70	1.76
3/18/2014	3/18/2014	Methylene Chloride	90.10	92.04	-1.94	2.13
3/18/2014	3/18/2014	Toluene	113.85	105.96	7.89	7.18
3/18/2014	3/18/2014	Trichloroethylene	101.20	93.40	7.80	8.02
3/24/2014	3/24/2014	1,1,1-Trichloroethane	92.48	93.07	-0.59	0.64
3/24/2014	3/24/2014	1,1,2,2-Tetrachloroethane	83.88	86.60	-2.72	3.19
3/24/2014	3/24/2014	1,1-Dichloroethylene	107.74	114.72	-6.98	6.28
3/24/2014	3/24/2014	1,2-Dichloroethane	96.12	100.19	-4.07	4.15
3/24/2014	3/24/2014	Carbon Tetrachloride	91.92	91.54	0.38	0.41
3/24/2014	3/24/2014	Chlorobenzene	90.68	95.15	-4.47	4.81
3/24/2014	3/24/2014	Chloroform	98.72	99.57	-0.85	0.86
3/24/2014	3/24/2014	Methylene Chloride	95.15	98.06	-2.91	3.01
3/24/2014	3/24/2014	Toluene	101.54	108.85	-7.31	6.95

Relative Percent Difference (RPD)

$$RPD = \text{ABS} (A - B) / [(A + B) / 2] \times 100$$

ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
3/24/2014	3/24/2014	Trichloroethylene	94.40	94.80	-0.40	0.42
3/28/2014	3/28/2014	1,1,1-Trichloroethane	98.02	98.02	0.00	0.00
3/28/2014	3/28/2014	1,1,2,2-Tetrachloroethane	94.76	93.79	0.97	1.03
3/28/2014	3/28/2014	1,1-Dichloroethylene	95.28	106.42	-11.14	11.05
3/28/2014	3/28/2014	1,2-Dichloroethane	86.99	93.79	-6.80	7.52
3/28/2014	3/28/2014	Carbon Tetrachloride	99.81	97.69	2.12	2.15
3/28/2014	3/28/2014	Chlorobenzene	99.81	101.36	-1.55	1.54
3/28/2014	3/28/2014	Chloroform	94.26	97.66	-3.40	3.54
3/28/2014	3/28/2014	Methylene Chloride	89.13	94.17	-5.04	5.50
3/28/2014	3/28/2014	Toluene	109.81	112.88	-3.07	2.76
3/28/2014	3/28/2014	Trichloroethylene	102.60	99.00	3.60	3.57
4/7/2014	4/7/2014	1,1,1-Trichloroethane	104.00	104.00	0.00	0.00
4/7/2014	4/7/2014	1,1,2,2-Tetrachloroethane	111.00	111.00	0.00	0.00
4/7/2014	4/7/2014	1,1-Dichloroethylene	119.00	120.00	-1.00	0.84
4/7/2014	4/7/2014	1,2-Dichloroethane	108.00	108.00	0.00	0.00
4/7/2014	4/7/2014	Carbon Tetrachloride	109.00	111.00	-2.00	1.82
4/7/2014	4/7/2014	Chlorobenzene	104.00	104.00	0.00	0.00
4/7/2014	4/7/2014	Chloroform	110.00	111.00	-1.00	0.90
4/7/2014	4/7/2014	Methylene Chloride	126.00	128.00	-2.00	1.57
4/7/2014	4/7/2014	Toluene	105.00	106.00	-1.00	0.95
4/7/2014	4/7/2014	Trichloroethylene	111.00	111.00	0.00	0.00
4/8/2014	4/8/2014	1,1,1-Trichloroethane	96.63	98.02	-1.39	1.43
4/8/2014	4/8/2014	1,1,2,2-Tetrachloroethane	97.28	101.17	-3.89	3.92
4/8/2014	4/8/2014	1,1-Dichloroethylene	95.66	106.42	-10.76	10.65
4/8/2014	4/8/2014	1,2-Dichloroethane	91.84	96.70	-4.86	5.16
4/8/2014	4/8/2014	Carbon Tetrachloride	98.46	97.31	1.15	1.17
4/8/2014	4/8/2014	Chlorobenzene	100.78	106.21	-5.43	5.25
4/8/2014	4/8/2014	Chloroform	94.89	98.94	-4.05	4.18
4/8/2014	4/8/2014	Methylene Chloride	87.77	93.79	-6.02	6.63
4/8/2014	4/8/2014	Toluene	112.50	119.42	-6.92	5.97
4/8/2014	4/8/2014	Trichloroethylene	96.80	99.00	-2.20	2.25
4/11/2014	4/11/2014	1,1,1-Trichloroethane	105.00	104.00	1.00	0.96
4/11/2014	4/11/2014	1,1,2,2-Tetrachloroethane	80.00	80.00	0.00	0.00
4/11/2014	4/11/2014	1,1-Dichloroethylene	112.00	109.00	3.00	2.71
4/11/2014	4/11/2014	1,2-Dichloroethane	100.00	99.00	1.00	1.01
4/11/2014	4/11/2014	Carbon Tetrachloride	100.00	110.00	-10.00	9.52
4/11/2014	4/11/2014	Chlorobenzene	100.00	97.00	3.00	3.05

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
4/11/2014	4/11/2014	Chloroform	95.00	105.00	-10.00	10.00
4/11/2014	4/11/2014	Methylene Chloride	100.00	112.00	-12.00	11.32
4/11/2014	4/11/2014	Toluene	104.00	102.00	2.00	1.94
4/11/2014	4/11/2014	Trichloroethylene	100.00	99.00	1.00	1.01
4/15/2014	4/15/2014	1,1,1-Trichloroethane	97.62	94.06	3.56	3.71
4/15/2014	4/15/2014	1,1,2,2-Tetrachloroethane	86.60	88.35	-1.75	2.00
4/15/2014	4/15/2014	1,1-Dichloroethylene	96.04	101.70	-5.66	5.72
4/15/2014	4/15/2014	1,2-Dichloroethane	91.84	95.53	-3.69	3.94
4/15/2014	4/15/2014	Carbon Tetrachloride	98.85	94.42	4.43	4.58
4/15/2014	4/15/2014	Chlorobenzene	89.71	93.59	-3.88	4.23
4/15/2014	4/15/2014	Chloroform	96.38	96.38	0.00	0.00
4/15/2014	4/15/2014	Methylene Chloride	91.07	93.20	-2.13	2.31
4/15/2014	4/15/2014	Toluene	100.19	105.77	-5.58	5.42
4/15/2014	4/15/2014	Trichloroethylene	97.20	93.60	3.60	3.77
4/21/2014	4/21/2014	1,1,1-Trichloroethane	106.73	97.03	9.70	9.52
4/21/2014	4/21/2014	1,1,2,2-Tetrachloroethane	112.43	97.09	15.34	14.64
4/21/2014	4/21/2014	1,1-Dichloroethylene	94.34	104.53	-10.19	10.25
4/21/2014	4/21/2014	1,2-Dichloroethane	100.00	97.86	2.14	2.16
4/21/2014	4/21/2014	Carbon Tetrachloride	108.85	98.08	10.77	10.41
4/21/2014	4/21/2014	Chlorobenzene	115.15	101.17	13.98	12.93
4/21/2014	4/21/2014	Chloroform	101.06	99.79	1.27	1.26
4/21/2014	4/21/2014	Methylene Chloride	93.40	94.76	-1.36	1.45
4/21/2014	4/21/2014	Toluene	129.04	114.62	14.42	11.84
4/21/2014	4/21/2014	Trichloroethylene	105.20	96.80	8.40	8.32
5/1/2014	5/1/2014	1,1,1-Trichloroethane	107.33	105.54	1.79	1.68
5/1/2014	5/1/2014	1,1,2,2-Tetrachloroethane	104.08	111.84	-7.76	7.19
5/1/2014	5/1/2014	1,1-Dichloroethylene	97.17	105.28	-8.11	8.01
5/1/2014	5/1/2014	1,2-Dichloroethane	94.37	105.44	-11.07	11.08
5/1/2014	5/1/2014	Carbon Tetrachloride	110.00	104.62	5.38	5.01
5/1/2014	5/1/2014	Chlorobenzene	104.08	117.86	-13.78	12.42
5/1/2014	5/1/2014	Chloroform	98.51	103.62	-5.11	5.06
5/1/2014	5/1/2014	Methylene Chloride	92.43	97.67	-5.24	5.51
5/1/2014	5/1/2014	Toluene	115.38	136.35	-20.97	16.66
5/1/2014	5/1/2014	Trichloroethylene	106.00	104.40	1.60	1.52
5/5/2014	5/5/2014	1,1,1-Trichloroethane	97.43	93.66	3.77	3.95
5/5/2014	5/5/2014	1,1,2,2-Tetrachloroethane	106.60	93.98	12.62	12.58
5/5/2014	5/5/2014	1,1-Dichloroethylene	92.45	102.26	-9.81	10.08

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
5/5/2014	5/5/2014	1,2-Dichloroethane	94.95	99.42	-4.47	4.60
5/5/2014	5/5/2014	Carbon Tetrachloride	98.08	93.27	4.81	5.03
5/5/2014	5/5/2014	Chlorobenzene	109.90	99.42	10.48	10.01
5/5/2014	5/5/2014	Chloroform	98.30	100.00	-1.70	1.71
5/5/2014	5/5/2014	Methylene Chloride	91.84	95.15	-3.31	3.54
5/5/2014	5/5/2014	Toluene	123.85	113.27	10.58	8.92
5/5/2014	5/5/2014	Trichloroethylene	96.20	92.80	3.40	3.60
5/12/2014	5/12/2014	1,1,1-Trichloroethane	92.87	90.50	2.37	2.58
5/12/2014	5/12/2014	1,1,2,2-Tetrachloroethane	101.75	84.27	17.48	18.79
5/12/2014	5/12/2014	1,1-Dichloroethylene	89.62	100.00	-10.38	10.95
5/12/2014	5/12/2014	1,2-Dichloroethane	89.51	92.43	-2.92	3.21
5/12/2014	5/12/2014	Carbon Tetrachloride	96.15	91.15	5.00	5.34
5/12/2014	5/12/2014	Chlorobenzene	102.72	88.54	14.18	14.83
5/12/2014	5/12/2014	Chloroform	94.04	95.32	-1.28	1.35
5/12/2014	5/12/2014	Methylene Chloride	89.90	94.37	-4.47	4.85
5/12/2014	5/12/2014	Toluene	115.58	99.62	15.96	14.83
5/12/2014	5/12/2014	Trichloroethylene	95.20	89.00	6.20	6.73
5/19/2014	5/19/2014	1,1,1-Trichloroethane	101.98	100.40	1.58	1.56
5/19/2014	5/19/2014	1,1,2,2-Tetrachloroethane	107.18	96.89	10.29	10.08
5/19/2014	5/19/2014	1,1-Dichloroethylene	91.70	101.89	-10.19	10.53
5/19/2014	5/19/2014	1,2-Dichloroethane	95.53	100.00	-4.47	4.57
5/19/2014	5/19/2014	Carbon Tetrachloride	103.46	98.85	4.61	4.56
5/19/2014	5/19/2014	Chlorobenzene	110.29	102.72	7.57	7.11
5/19/2014	5/19/2014	Chloroform	99.79	100.00	-0.21	0.21
5/19/2014	5/19/2014	Methylene Chloride	90.87	94.76	-3.89	4.19
5/19/2014	5/19/2014	Toluene	123.65	117.12	6.53	5.42
5/19/2014	5/19/2014	Trichloroethylene	103.00	100.60	2.40	2.36
5/29/2014	5/29/2014	1,1,1-Trichloroethane	109.31	103.37	5.94	5.59
5/29/2014	5/29/2014	1,1,2,2-Tetrachloroethane	121.17	109.51	11.66	10.11
5/29/2014	5/29/2014	1,1-Dichloroethylene	97.17	105.85	-8.68	8.55
5/29/2014	5/29/2014	1,2-Dichloroethane	106.99	109.13	-2.14	1.98
5/29/2014	5/29/2014	Carbon Tetrachloride	110.58	102.31	8.27	7.77
5/29/2014	5/29/2014	Chlorobenzene	124.08	114.95	9.13	7.64
5/29/2014	5/29/2014	Chloroform	101.70	101.91	-0.21	0.21
5/29/2014	5/29/2014	Methylene Chloride	94.76	97.67	-2.91	3.02
5/29/2014	5/29/2014	Toluene	133.08	125.19	7.89	6.11
5/29/2014	5/29/2014	Trichloroethylene	116.20	106.40	9.80	8.81

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
6/6/2014	6/6/2014	1,1,1-Trichloroethane	83.56	86.93	-3.37	3.95
6/6/2014	6/6/2014	1,1,2,2-Tetrachloroethane	91.26	96.70	-5.44	5.79
6/6/2014	6/6/2014	1,1-Dichloroethylene	105.47	116.23	-10.76	9.71
6/6/2014	6/6/2014	1,2-Dichloroethane	98.25	104.08	-5.83	5.76
6/6/2014	6/6/2014	Carbon Tetrachloride	82.12	84.81	-2.69	3.22
6/6/2014	6/6/2014	Chlorobenzene	92.82	98.64	-5.82	6.08
6/6/2014	6/6/2014	Chloroform	96.17	99.36	-3.19	3.26
6/6/2014	6/6/2014	Methylene Chloride	94.56	98.25	-3.69	3.83
6/6/2014	6/6/2014	Toluene	107.88	115.96	-8.08	7.22
6/6/2014	6/6/2014	Trichloroethylene	87.60	93.60	-6.00	6.62
6/16/2014	6/16/2014	1,1,1-Trichloroethane	98.22	92.08	6.14	6.45
6/16/2014	6/16/2014	1,1,2,2-Tetrachloroethane	119.03	106.99	12.04	10.65
6/16/2014	6/16/2014	1,1-Dichloroethylene	95.09	97.92	-2.83	2.93
6/16/2014	6/16/2014	1,2-Dichloroethane	98.45	95.53	2.92	3.01
6/16/2014	6/16/2014	Carbon Tetrachloride	99.04	92.31	6.73	7.03
6/16/2014	6/16/2014	Chlorobenzene	115.53	105.05	10.48	9.50
6/16/2014	6/16/2014	Chloroform	100.43	96.81	3.62	3.67
6/16/2014	6/16/2014	Methylene Chloride	93.01	91.46	1.55	1.68
6/16/2014	6/16/2014	Toluene	131.73	118.65	13.08	10.45
6/16/2014	6/16/2014	Trichloroethylene	109.20	101.40	7.80	7.41
6/25/2014	6/25/2014	1,1,1-Trichloroethane	99.80	96.24	3.56	3.63
6/25/2014	6/25/2014	1,1,2,2-Tetrachloroethane	84.27	85.83	-1.56	1.83
6/25/2014	6/25/2014	1,1-Dichloroethylene	90.19	86.42	3.77	4.27
6/25/2014	6/25/2014	1,2-Dichloroethane	97.86	93.40	4.46	4.66
6/25/2014	6/25/2014	Carbon Tetrachloride	103.27	99.04	4.23	4.18
6/25/2014	6/25/2014	Chlorobenzene	88.74	89.90	-1.16	1.30
6/25/2014	6/25/2014	Chloroform	98.30	94.47	3.83	3.97
6/25/2014	6/25/2014	Methylene Chloride	89.90	86.80	3.10	3.51
6/25/2014	6/25/2014	Toluene	85.38	86.35	-0.97	1.13
6/25/2014	6/25/2014	Trichloroethylene	97.40	93.20	4.20	4.41
7/2/2014	7/2/2014	1,1,1-Trichloroethane	102.18	102.38	-0.20	0.20
7/2/2014	7/2/2014	1,1,2,2-Tetrachloroethane	89.13	90.49	-1.36	1.51
7/2/2014	7/2/2014	1,1-Dichloroethylene	88.68	85.47	3.21	3.69
7/2/2014	7/2/2014	1,2-Dichloroethane	89.13	92.62	-3.49	3.84
7/2/2014	7/2/2014	Carbon Tetrachloride	106.35	106.73	-0.38	0.36
7/2/2014	7/2/2014	Chlorobenzene	90.68	91.84	-1.16	1.27
7/2/2014	7/2/2014	Chloroform	93.62	94.68	-1.06	1.13

Relative Percent Difference (RPD)

$$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$$
 ABS = Absolute value of a number

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Attachment 6B – VOCs – Precision/Accuracy of Laboratory Control Samples

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (% Recovery)	LCD (% Recovery)	Difference	RPD
7/2/2014	7/2/2014	Methylene Chloride	86.21	84.66	1.55	1.81
7/2/2014	7/2/2014	Toluene	88.85	90.58	-1.73	1.93
7/2/2014	7/2/2014	Trichloroethylene	100.60	99.40	1.20	1.20

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with the NMED Administrative Order dated May 12, 2014. Quality assurance objectives were not assigned for trichloroethylene in the Administrative Order. However, the Permittees have established these for the laboratory in the laboratory statement of work.

Relative Percent Difference (RPD)

$RPD = \frac{ABS(A - B)}{[(A + B) / 2]} \times 100$ ABS = Absolute value of a number

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Attachment 6C – VOCs – Laboratory Method Blanks

Concentrations in ppbv

111TA = 1,1,1-Trichloroethane; **1122T** = 1,1,2,2-Tetrachloroethane; **11DCE** = 1,1-Dichloroethylene; **12DCA** = 1,2-Dichloroethane;
CCL4 = Carbon tetrachloride; **CHBNZ** = Chlorobenzene; **CHFRM** = Chloroform; **DCM** = Methylene chloride; **C7H8** = Toluene **TCE** = Trichloroethylene

Analysis Date	111TA	1122T	11DCE	12DCA	CCL4	CHBNZ	CHFRM	DCM	C7H8	TCE
1/24/2014	U	0.27J	U	U	U	U	U	0.11J	U	0.03J
1/30/2014	U	0.32J	U	U	0.16J	U	U	0.11J	U	0.08J
2/5/2014	U	0.14J	U	U	U	U	U	0.11J	U	U
2/7/2014	U	0.17J	U	U	U	U	U	0.1J	U	U
2/18/2014	U	0.15J	U	U	U	U	U	0.1J	U	0.03J
3/4/2014	U	0.18J	U	U	U	U	U	0.11J	U	0.08J
3/10/2014	U	0.22J	U	U	U	U	U	0.11J	U	U
3/18/2014	U	U	U	U	U	U	U	U	U	U
3/24/2014	U	U	U	U	U	U	U	U	U	U
3/28/2014	U	U	U	U	U	U	U	U	U	U
4/7/2014	U	0.0035J	U	0.0032J	U	U	U	U	0.0035J	0.0033J
4/8/2014	U	U	U	U	U	U	U	U	U	U
4/11/2014	U	0.0072J	U	0.0071J	U	U	U	U	0.0035J	0.0053J
4/15/2014	U	U	U	U	U	U	U	U	U	U
4/21/2014	U	U	U	U	U	U	U	U	U	U
5/1/2014	U	U	U	U	U	U	U	U	U	U
5/5/2014	U	U	U	U	U	U	U	U	U	U
5/12/2014	U	U	U	U	U	U	U	U	U	U
5/19/2014	U	0.06J	U	U	U	U	U	U	U	U
5/29/2014	U	U	U	U	U	U	U	U	U	U
6/6/2014	U	U	U	U	U	U	U	U	U	U
6/16/2014	U	U	U	U	U	U	U	U	U	U
6/25/2014	U	U	U	U	U	U	U	U	U	U
7/2/2014	U	U	U	U	U	U	U	U	U	U

Notes:

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

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Attachment 6D – VOCs – Field Duplicate Precision

Field Duplicate Precision for Repository VOC Monitoring

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
VOC-A	2/4/2014	8901	2/4/2014	8903	1,1,1-Trichloroethane	47.90*	47.90*	0	0.00
VOC-A	2/4/2014	8901	2/4/2014	8903	1,1,2,2-Tetrachloroethane	U	U	0	0.00
VOC-A	2/4/2014	8901	2/4/2014	8903	1,1-Dichloroethylene	U	U	0	0.00
VOC-A	2/4/2014	8901	2/4/2014	8903	1,2-Dichloroethane	U	U	0	0.00
VOC-A	2/4/2014	8901	2/4/2014	8903	Carbon Tetrachloride	238.78*	243.91*	-5.13	2.13
VOC-A	2/4/2014	8901	2/4/2014	8903	Chlorobenzene	U	U	0	0.00
VOC-A	2/4/2014	8901	2/4/2014	8903	Chloroform	18.10*	17.83*	0.27	1.50
VOC-A	2/4/2014	8901	2/4/2014	8903	Methylene Chloride	6.21* J	6.14* J	0.07	1.13
VOC-A	2/4/2014	8901	2/4/2014	8903	Toluene	0.74* J	0.67* J	0.07	9.93
VOC-A	2/4/2014	8901	2/4/2014	8903	Trichloroethylene	82.29*	80.94*	1.35	1.65
VOC-B	2/4/2014	8902	2/4/2014	8904	1,1,1-Trichloroethane	U	U	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	1,1,2,2-Tetrachloroethane	0.13* J	U	0.13	200.00
VOC-B	2/4/2014	8902	2/4/2014	8904	1,1-Dichloroethylene	U	U	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	1,2-Dichloroethane	U	U	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	Carbon Tetrachloride	0.13* J	0.13* J	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	Chlorobenzene	U	U	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	Chloroform	U	U	0	0.00
VOC-B	2/4/2014	8902	2/4/2014	8904	Methylene Chloride	0.16* J	0.11* J	0.05	37.04
VOC-B	2/4/2014	8902	2/4/2014	8904	Toluene	0.32* J	0.28* J	0.04	13.33
VOC-B	2/4/2014	8902	2/4/2014	8904	Trichloroethylene	U	U	0	0.00

Field Duplicate Precision for Disposal Room VOC Monitoring

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
P6R4E	1/15/2014	8873	1/15/2014	8874	1,1,1-Trichloroethane	148978.44	143117.28	5861.16	4.01
P6R4E	1/15/2014	8873	1/15/2014	8874	1,1,2,2-Tetrachloroethane	U	U	0	0.00
P6R4E	1/15/2014	8873	1/15/2014	8874	1,1-Dichloroethylene	U	U	0	0.00
P6R4E	1/15/2014	8873	1/15/2014	8874	1,2-Dichloroethane	U	U	0	0.00
P6R4E	1/15/2014	8873	1/15/2014	8874	Carbon Tetrachloride	484464.24	450871.92	33592.32	7.18
P6R4E	1/15/2014	8873	1/15/2014	8874	Chlorobenzene	U	U	0	0.00
P6R4E	1/15/2014	8873	1/15/2014	8874	Chloroform	25719.12	25019.28	699.84	2.76
P6R4E	1/15/2014	8873	1/15/2014	8874	Methylene Chloride	6298.56 J	6123.6 J	174.96	2.82
P6R4E	1/15/2014	8873	1/15/2014	8874	Toluene	612.36 J	612.36 J	0	0.00
P6R4E	1/15/2014	8873	1/15/2014	8874	Trichloroethylene	281598.12	286234.56	-4636.44	1.63
P6R6E	1/8/2014	8847	1/8/2014	8848	1,1,1-Trichloroethane	490500.36	482627.16	7873.2	1.62
P6R6E	1/8/2014	8847	1/8/2014	8848	1,1,2,2-Tetrachloroethane	U	U	0	0.00

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Attachment 6D – VOCs – Field Duplicate Precision

Field Duplicate Precision for Disposal Room VOC Monitoring

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
P6R6E	1/8/2014	8847	1/8/2014	8848	1,1-Dichloroethylene	U	U	0	0.00
P6R6E	1/8/2014	8847	1/8/2014	8848	1,2-Dichloroethane	U	U	0	0.00
P6R6E	1/8/2014	8847	1/8/2014	8848	Carbon Tetrachloride	1701398.52	1670955.48	30443.04	1.81
P6R6E	1/8/2014	8847	1/8/2014	8848	Chlorobenzene	U	U	0	0.00
P6R6E	1/8/2014	8847	1/8/2014	8848	Chloroform	102351.6	98677.44	3674.16	3.66
P6R6E	1/8/2014	8847	1/8/2014	8848	Methylene Chloride	12334.68 J	14696.64 J	-2361.96	17.48
P6R6E	1/8/2014	8847	1/8/2014	8848	Toluene	2099.52 J	2624.4 J	-524.88	22.22
P6R6E	1/8/2014	8847	1/8/2014	8848	Trichloroethylene	1159459.92	1148962.32	10497.6	0.91
P7R7E	2/3/2014	8907	2/3/2014	8908	1,1,1-Trichloroethane	8.01	8.09	-0.08	0.99
P7R7E	2/3/2014	8907	2/3/2014	8908	1,1,2,2-Tetrachloroethane	U	U	0	0.00
P7R7E	2/3/2014	8907	2/3/2014	8908	1,1-Dichloroethylene	U	U	0	0.00
P7R7E	2/3/2014	8907	2/3/2014	8908	1,2-Dichloroethane	U	U	0	0.00
P7R7E	2/3/2014	8907	2/3/2014	8908	Carbon Tetrachloride	36.52	37.23	-0.71	1.93
P7R7E	2/3/2014	8907	2/3/2014	8908	Chlorobenzene	U	U	0	0.00
P7R7E	2/3/2014	8907	2/3/2014	8908	Chloroform	0.52 J	0.49 J	0.03	5.94
P7R7E	2/3/2014	8907	2/3/2014	8908	Methylene Chloride	0.21 J	0.19 J	0.02	10.00
P7R7E	2/3/2014	8907	2/3/2014	8908	Toluene	0.19 J	0.19 J	0	0.00
P7R7E	2/3/2014	8907	2/3/2014	8908	Trichloroethylene	6.68	6.21	0.47	7.29

Field Duplicate Precision for Ongoing Disposal Room VOC Monitoring

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
P3R1E	1/15/2014	8864	1/15/2014	8865	1,1,1-Trichloroethane	2799.36	2332.08	467.28	18.21
P3R1E	1/15/2014	8864	1/15/2014	8865	1,1,2,2-Tetrachloroethane	U	27.36 J	-27.36	200.00
P3R1E	1/15/2014	8864	1/15/2014	8865	1,1-Dichloroethylene	16.56 J	17.28 J	-0.72	4.26
P3R1E	1/15/2014	8864	1/15/2014	8865	1,2-Dichloroethane	5.76 J	17.28 J	-11.52	100.00
P3R1E	1/15/2014	8864	1/15/2014	8865	Carbon Tetrachloride	4203.36	3492.72	710.64	18.47
P3R1E	1/15/2014	8864	1/15/2014	8865	Chlorobenzene	U	U	0	0.00
P3R1E	1/15/2014	8864	1/15/2014	8865	Chloroform	111.6	101.52	10.08	9.46
P3R1E	1/15/2014	8864	1/15/2014	8865	Methylene Chloride	568.08	455.04	113.04	22.10
P3R1E	1/15/2014	8864	1/15/2014	8865	Toluene	41.76 J	48.96 J	-7.2	15.87
P3R1E	1/15/2014	8864	1/15/2014	8865	Trichloroethylene	475.92	421.92	54	12.03
P4R1E	1/20/2014	8895	1/20/2014	8896	1,1,1-Trichloroethane	35575.2	36508.32	-933.12	2.59
P4R1E	1/20/2014	8895	1/20/2014	8896	1,1,2,2-Tetrachloroethane	U	U	0	0.00
P4R1E	1/20/2014	8895	1/20/2014	8896	1,1-Dichloroethylene	U	U	0	0.00
P4R1E	1/20/2014	8895	1/20/2014	8896	1,2-Dichloroethane	U	U	0	0.00
P4R1E	1/20/2014	8895	1/20/2014	8896	Carbon Tetrachloride	209718.72	214442.64	-4723.92	2.23

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Attachment 6D – VOCs – Field Duplicate Precision

Field Duplicate Precision for Ongoing Disposal Room VOC Monitoring

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppbv)	Duplicate (ppbv)	Difference	RPD †
P4R1E	1/20/2014	8895	1/20/2014	8896	Chlorobenzene	U	U	0	0.00
P4R1E	1/20/2014	8895	1/20/2014	8896	Chloroform	11314.08	12597.12	-1283.04	10.73
P4R1E	1/20/2014	8895	1/20/2014	8896	Methylene Chloride	5890.32	6648.48	-758.16	12.09
P4R1E	1/20/2014	8895	1/20/2014	8896	Toluene	291.6 J	408.24 J	-116.64	33.33
P4R1E	1/20/2014	8895	1/20/2014	8896	Trichloroethylene	57153.6	70858.8	-13705.2	21.41
P4R1E	2/3/2014	8924	2/3/2014	8925	1,1,1-Trichloroethane	65435.04	60652.8	4782.24	7.59
P4R1E	2/3/2014	8924	2/3/2014	8925	1,1,2,2-Tetrachloroethane	U	U	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	1,1-Dichloroethylene	U	U	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	1,2-Dichloroethane	U	U	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	Carbon Tetrachloride	365841.36	344088	21753.36	6.13
P4R1E	2/3/2014	8924	2/3/2014	8925	Chlorobenzene	U	U	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	Chloroform	18954	18662.4	291.6	1.55
P4R1E	2/3/2014	8924	2/3/2014	8925	Methylene Chloride	9739.44	9739.44	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	Toluene	408.24 J	408.24 J	0	0.00
P4R1E	2/3/2014	8924	2/3/2014	8925	Trichloroethylene	94711.68	93603.6	1108.08	1.18

Notes:

Samples were collected before May 12, 2014, when trichloroethylene was an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis. Starting with samples collected on or after May 12, 2014, trichloroethylene became a target analyte in compliance with the NMED Administrative Order dated May 12, 2014. Quality assurance objectives were not assigned for trichloroethylene in the Administrative Order. However, the Permittees have established these for the laboratory in the laboratory statement of work.

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report. The "Q" qualifier appears after the duplicate sample ID, as applicable.

ppbv = parts per billion by volume.

* Normalized target VOC concentration.

† Technical acceptance criterion for field duplicates is ≤ 35 RPD, which is only applicable if one or both values are not flagged "U" or "J." Data sets not meeting this criterion are shaded.

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Attachment 7 – QA/QC Results from Analysis of Hydrogen and Methane Monitoring Samples

LCS/LCSD Results

LCS Analysis Date	LCSD Analysis Date	Compound	LCS (%Recovery)	LCSD (%Recovery)	Difference	RPD
1/22/2014	1/22/2014	Hydrogen	100.88	99.21	1.67	1.67
1/22/2014	1/22/2014	Methane	95.75	93.04	2.71	2.87
1/28/2014	1/28/2014	Hydrogen	98.51	103.01	-4.5	4.47
1/28/2014	1/28/2014	Methane	103.93	98.53	5.4	5.33
2/11/2014	2/11/2014	Hydrogen	99.10	98.97	0.13	0.13
2/11/2014	2/11/2014	Methane	96.25	96.79	-0.54	0.56

Notes:

LCS = laboratory control sample.

LCSD = laboratory control sample duplicate.

Relative Percent Difference (RPD)

RPD = $ABS (A-B) / [(A+B)/2] \times 100$ ABS = Absolute value of a number

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Attachment 7 – QA/QC Results from Analysis of Hydrogen and Methane Monitoring Samples

Laboratory Method Blank

Analysis Date	Hydrogen	Methane
1/22/2014	U	U
1/28/2014	U	U
2/11/2014	U	U

Notes:

U = Compound not detected above the method detection limit.

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Attachment 7 – QA/QC Results from Analysis of Hydrogen and Methane Monitoring Samples

Lab Precision

Original Analysis Date	Original Sample ID	Duplicate Analysis Date	Duplicate Sample ID	Compound	Original (ppmv)	Duplicate (ppmv)	Difference	RPD *
1/22/2014	8854	1/22/2014	8854-dup	Hydrogen	U	U	0	0
1/22/2014	8854	1/22/2014	8854-dup	Methane	U	U	0	0
1/28/2014	8881	1/28/2014	8881-dup	Hydrogen	68.98 J	77.96 J	-8.98	12.22
1/28/2014	8881	1/28/2014	8881-dup	Methane	U	U	0	0
2/11/2014	8910	2/11/2014	8910-dup	Hydrogen	125.84	126.02	-0.18	0.14
2/11/2014	8910	2/11/2014	8910-dup	Methane	U	U	0	0

Notes:

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

ppmv = parts per million by volume.

* Technical acceptance criterion for lab duplicate is ≤ 25 RPD, which is only applicable if one or both values are not flagged "U" or "J."

Relative Percent Difference (RPD)

$RPD = \frac{ABS(A-B)}{[(A+B)/2]} \times 100$ ABS = Absolute value of a number

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Attachment 7 – QA/QC Results from Analysis of Hydrogen and Methane Monitoring Samples

Field Precision

Location	Original Sample Date	Original Sample ID	Duplicate Sample Date	Duplicate Sample ID	Compound	Original (ppmv)	Duplicate (ppmv)	Difference	RPD *
P3R1E	1/15/2014	8864	1/15/2014	8865	Hydrogen	U	U	0	0
P3R1E	1/15/2014	8864	1/15/2014	8865	Methane	U	U	0	0
P4R1E	1/20/2014	8895	1/20/2014	8896	Hydrogen	107.8	106.62	1.18	1.1
P4R1E	1/20/2014	8895	1/20/2014	8896	Methane	U	U	0	0
P4R1E	2/3/2014	8924	2/3/2014	8925	Hydrogen	164.98	143.88	21.1	13.66
P4R1E	2/3/2014	8924	2/3/2014	8925	Methane	U	U	0	0

Notes:

Descriptions for qualifiers (i.e., U and J) are presented in section 1.2 of this report.

ppmv = parts per million by volume.

* Technical acceptance criterion for field duplicate is ≤ 35 RPD, which is only applicable if one or both values are not flagged "U" or "J."

Relative Percent Difference (RPD)

$RPD = \frac{ABS(A-B)}{[(A+B)/2]} \times 100$ ABS = Absolute value of a number

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Attachment 8 – Surface Samples

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Methylene Chloride	75-09-2	2	0.14 J
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Carbon Tetrachloride	56-23-5	2	0.22 J
CEMRC	2/12/2014	3/4/2014	021214	Training Building	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Chlorobenzene	108-90-7	2	U
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Toluene	108-88-3	2	0.16 J
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Chloroform	67-66-3	2	1.76 J
CEMRC	2/12/2014	3/4/2014	021214	Training Building	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	2/12/2014	3/4/2014	021214	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	2/12/2014	3/4/2014	021214	Training Building	1,2-Dichloroethane	107-06-2	2	U
CEMRC	2/12/2014	3/4/2014	021214	Training Building	Trichloroethylene	79-01-6	2	1.36 J
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Methylene Chloride	75-09-2	2	0.16 J
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Carbon Tetrachloride	56-23-5	2	0.24 J
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Chlorobenzene	108-90-7	2	U
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Toluene	108-88-3	2	0.14 J
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Chloroform	67-66-3	2	0.32 J
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	1,2-Dichloroethane	107-06-2	2	U
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Trichloroethylene	79-01-6	2	2.62
CEMRC	2/26/2014	3/4/2014	02251401	Training Building	Pentane	109-66-0	2	2 NJ
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Methylene Chloride	75-09-2	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Carbon Tetrachloride	56-23-5	2	0.12 J
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Chlorobenzene	108-90-7	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Toluene	108-88-3	2	0.14 J
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Chloroform	67-66-3	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	1,2-Dichloroethane	107-06-2	2	U
CEMRC	2/26/2014	3/4/2014	02251402	South Fenceline	Trichloroethylene	79-01-6	2	0.82 J

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Attachment 8 – Surface Samples

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Methylene Chloride	75-09-2	2	0.12 J
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Carbon Tetrachloride	56-23-5	2	0.12 J
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Chlorobenzene	108-90-7	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Toluene	108-88-3	2	0.24 J
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Chloroform	67-66-3	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	1,2-Dichloroethane	107-06-2	2	U
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Trichloroethylene	79-01-6	2	0.08 J
CEMRC	2/27/2014	3/4/2014	02261401	Training Building	Pentane	109-66-0		4.46 NJ
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Methylene Chloride	75-09-2	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Carbon Tetrachloride	56-23-5	2	0.14 J
CEMRC	3/6/2014	3/10/2014	8930	Training Building	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Chlorobenzene	108-90-7	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Toluene	108-88-3	2	0.18 J
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Chloroform	67-66-3	2	0.14 J
CEMRC	3/6/2014	3/10/2014	8930	Training Building	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	1,2-Dichloroethane	107-06-2	2	U
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Trichloroethylene	79-01-6	2	0.14 J
CEMRC	3/6/2014	3/10/2014	8930	Training Building	Pentane	109-66-0		3.4 NJ
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Methylene Chloride	75-09-2	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Carbon Tetrachloride	56-23-5	2	0.14 J
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Chlorobenzene	108-90-7	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Toluene	108-88-3	2	0.16 J
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Chloroform	67-66-3	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	1,2-Dichloroethane	107-06-2	2	U
CEMRC	3/6/2014	3/10/2014	8931	South Fenceline	Trichloroethylene	79-01-6	2	U

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Attachment 8 – Surface Samples

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Methylene Chloride	75-09-2	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Carbon Tetrachloride	56-23-5	2	0.18 J
CEMRC	3/7/2014	3/10/2014	8932	Training Building	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Chlorobenzene	108-90-7	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Toluene	108-88-3	2	0.18 J
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Chloroform	67-66-3	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	1,2-Dichloroethane	107-06-2	2	U
CEMRC	3/7/2014	3/10/2014	8932	Training Building	Trichloroethylene	79-01-6	2	0.08 J
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Methylene Chloride	75-09-2	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Carbon Tetrachloride	56-23-5	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	1,1,1-Trichloroethane	71-55-6	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Chlorobenzene	108-90-7	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Toluene	108-88-3	2	0.18 J
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Chloroform	67-66-3	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	1,1-Dichloroethylene	75-35-4	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	1,2-Dichloroethane	107-06-2	2	U
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Trichloroethylene	79-01-6	2	0.06 J
CEMRC	3/7/2014	3/10/2014	8933	South Fenceline	Pentane	109-66-0		2.88 NJ
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.32 J
CEMRC	3/12/2014	3/18/2014	8934	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Toluene	108-88-3	0.4	0.08 J
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Trichloroethylene	79-01-6	0.4	0.36 J
CEMRC	3/12/2014	3/18/2014	8934	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ

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Attachment 8 – Surface Samples

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CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Toluene	108-88-3	0.4	0.06 J
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/12/2014	3/18/2014	8935	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	3/13/2014	3/18/2014	8936	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	3/13/2014	3/18/2014	8936	Training Building	Pentane	109-66-0		3.02 NJ
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Toluene	108-88-3	0.4	0.26 J
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	3/13/2014	3/18/2014	8937	South Fenceline	Pentane	109-66-0		3.04 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.24 J
CEMRC	3/19/2014	3/24/2014	8938	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Toluene	108-88-3	0.4	0.06 J
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Trichloroethylene	79-01-6	0.4	0.26 J
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	3/19/2014	3/24/2014	8938	Training Building	Pentane	109-66-0		0.96 NJ
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.16 J
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Toluene	108-88-3	0.4	0.06 J
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	3/19/2014	3/24/2014	8939	South Fenceline	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	3/20/2014	3/24/2014	8940	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Toluene	108-88-3	0.4	0.22 J
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Trichloroethylene	79-01-6	0.4	U

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CEMRC	3/20/2014	3/24/2014	8940	Training Building	Nonanal	124-19-6		0.56 NJ
CEMRC	3/20/2014	3/24/2014	8940	Training Building	Pentane	109-66-0		2.64 NJ
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Toluene	108-88-3	0.4	0.24 J
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	3/20/2014	3/25/2014	8941	South Fenceline	Pentane	109-66-0		2.72 NJ
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.26 J
CEMRC	3/26/2014	3/28/2014	8942	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Toluene	108-88-3	0.4	0.12 J
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Chloroform	67-66-3	0.4	0.28 J
CEMRC	3/26/2014	3/28/2014	8942	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/26/2014	3/28/2014	8942	Training Building	Trichloroethylene	79-01-6	0.4	0.18 J
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Toluene	108-88-3	0.4	0.14 J
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U

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CEMRC	3/26/2014	3/28/2014	8943	South Fenceline	Trichloroethylene	79-01-6	0.4	U
ATL	3/26/2014	4/7/2014	8944	Training Building	Methylene Chloride	75-09-2	0.39	0.16 J
ATL	3/26/2014	4/7/2014	8944	Training Building	Carbon Tetrachloride	56-23-5	0.2	0.12 J
ATL	3/26/2014	4/7/2014	8944	Training Building	1,1,1-Trichloroethane	71-55-6	0.039	0.01 J
ATL	3/26/2014	4/7/2014	8944	Training Building	Chlorobenzene	108-90-7	0.2	U
ATL	3/26/2014	4/7/2014	8944	Training Building	Toluene	108-88-3	0.039	0.18
ATL	3/26/2014	4/7/2014	8944	Training Building	Chloroform	67-66-3	0.2	U
ATL	3/26/2014	4/7/2014	8944	Training Building	1,1-Dichloroethylene	75-35-4	0.02	U
ATL	3/26/2014	4/7/2014	8944	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.039	U
ATL	3/26/2014	4/7/2014	8944	Training Building	1,2-Dichloroethane	107-06-2	0.039	0.029 J
ATL	3/26/2014	4/7/2014	8944	Training Building	Trichloroethylene	79-01-6	0.039	0.022 J
ATL	3/26/2014	4/7/2014	8944	Training Building	Acetone	67-64-1		2.9 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Butane	106-97-8		12 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Butane, 2-methyl-	78-78-4		4.8 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Hexanal	66-25-1		1.2 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Hexane	110-54-3		1.5 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Isobutane	75-28-5		6.3 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Nonanal	124-19-6		2.7 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Pentane	109-66-0		4.8 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Pentane, 2-methyl-	107-83-5		1.7 NJ
ATL	3/26/2014	4/7/2014	8944	Training Building	Propane	74-98-6		15 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Methylene Chloride	75-09-2	0.41	0.21 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Carbon Tetrachloride	56-23-5	0.21	0.12 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.041	0.012 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Chlorobenzene	108-90-7	0.21	U
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Toluene	108-88-3	0.041	0.17
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Chloroform	67-66-3	0.21	0.044 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	1,1-Dichloroethylene	75-35-4	0.021	U
ATL	3/26/2014	4/7/2014	8945	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.041	U
ATL	3/26/2014	4/7/2014	8945	South Fenceline	1,2-Dichloroethane	107-06-2	0.041	0.03 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Trichloroethylene	79-01-6	0.041	0.0073 J
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Acetone	67-64-1		3.8 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Butane	106-97-8		12 NJ

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ATL	3/26/2014	4/7/2014	8945	South Fenceline	Butane, 2-methyl-	78-78-4		4.8 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Hexane	110-54-3		1.5 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Isobutane	75-28-5		5.9 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Nonanal	124-19-6		1.2 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Pentane	109-66-0		4.6 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Pentane, 2-methyl-	107-83-5		1.5 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Pentane, 3-methyl-	96-14-0		1.5 NJ
ATL	3/26/2014	4/7/2014	8945	South Fenceline	Propane	74-98-6		15 NJ
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.44
CEMRC	3/27/2014	3/28/2014	8946	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	0.08 J
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Toluene	108-88-3	0.4	0.18 J
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Trichloroethylene	79-01-6	0.4	0.56
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Acetone	67-64-1		1.24 NJ
CEMRC	3/27/2014	3/28/2014	8946	Training Building	Pentane	109-66-0		1.54 NJ
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	3/27/2014	3/28/2014	8947	South Fenceline	Trichloroethylene	79-01-6	0.4	U
ATL	3/27/2014	4/7/2014	8948	Training Building	Methylene Chloride	75-09-2	0.4	0.3 J
ATL	3/27/2014	4/7/2014	8948	Training Building	Carbon Tetrachloride	56-23-5	0.2	0.14 J

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ATL	3/27/2014	4/7/2014	8948	Training Building	1,1,1-Trichloroethane	71-55-6	0.04	0.02 J
ATL	3/27/2014	4/7/2014	8948	Training Building	Chlorobenzene	108-90-7	0.2	0.03 J
ATL	3/27/2014	4/7/2014	8948	Training Building	Toluene	108-88-3	0.04	0.22
ATL	3/27/2014	4/7/2014	8948	Training Building	Chloroform	67-66-3	0.2	U
ATL	3/27/2014	4/7/2014	8948	Training Building	1,1-Dichloroethylene	75-35-4	0.02	U
ATL	3/27/2014	4/7/2014	8948	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.04	U
ATL	3/27/2014	4/7/2014	8948	Training Building	1,2-Dichloroethane	107-06-2	0.04	0.027 J
ATL	3/27/2014	4/7/2014	8948	Training Building	Trichloroethylene	79-01-6	0.04	0.012 J
ATL	3/27/2014	4/7/2014	8948	Training Building	Acetone	67-64-1		2.6 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Butane	106-97-8		17 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Butane, 2-methyl-	78-78-4		7.1 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Hexanal	66-25-1		2.2 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Hexane	110-54-3		2.3 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Isobutane	75-28-5		8.6 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Nonanal	124-19-6		4 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Pentane	109-66-0		6.8 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Pentane, 2-methyl-	107-83-5		2.5 NJ
ATL	3/27/2014	4/7/2014	8948	Training Building	Propane	74-98-6		20 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Methylene Chloride	75-09-2	0.41	0.19 J
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Carbon Tetrachloride	56-23-5	0.21	0.093 J
ATL	3/27/2014	4/7/2014	8949	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.041	U
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Chlorobenzene	108-90-7	0.21	U
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Toluene	108-88-3	0.041	0.2
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Chloroform	67-66-3	0.21	U
ATL	3/27/2014	4/7/2014	8949	South Fenceline	1,1-Dichloroethylene	75-35-4	0.021	U
ATL	3/27/2014	4/7/2014	8949	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.041	U
ATL	3/27/2014	4/7/2014	8949	South Fenceline	1,2-Dichloroethane	107-06-2	0.041	0.027 J
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Trichloroethylene	79-01-6	0.041	0.022 J
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Acetone	67-64-1		2.9 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Butane	106-97-8		16 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Butane, 2-methyl-	78-78-4		6.6 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Hexane	110-54-3		2.3 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Isobutane	75-28-5		8.6 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Pentane	109-66-0		6.7 NJ

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ATL	3/27/2014	4/7/2014	8949	South Fenceline	Pentane, 2-methyl-	107-83-5		2.7 NJ
ATL	3/27/2014	4/7/2014	8949	South Fenceline	Propane	74-98-6		16 NJ
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.42
CEMRC	4/2/2014	4/8/2014	8950	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	0.1 J
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Toluene	108-88-3	0.4	0.18 J
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Trichloroethylene	79-01-6	0.4	0.52
CEMRC	4/2/2014	4/8/2014	8950	Training Building	Dodecane	112-40-3		1.48 NJ
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/2/2014	4/8/2014	8951	South Fenceline	Pentane	109-66-0		2.34 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Methylene Chloride	75-09-2	0.38	U
ATL	4/2/2014	4/11/2014	8954	Training Building	Carbon Tetrachloride	56-23-5	0.19	0.084 J
ATL	4/2/2014	4/11/2014	8954	Training Building	1,1,1-Trichloroethane	71-55-6	0.038	0.016 J
ATL	4/2/2014	4/11/2014	8954	Training Building	Chlorobenzene	108-90-7	0.19	U
ATL	4/2/2014	4/11/2014	8954	Training Building	Toluene	108-88-3	0.038	0.24
ATL	4/2/2014	4/11/2014	8954	Training Building	Chloroform	67-66-3	0.19	U
ATL	4/2/2014	4/11/2014	8954	Training Building	1,1-Dichloroethylene	75-35-4	0.019	U
ATL	4/2/2014	4/11/2014	8954	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.038	U

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ATL	4/2/2014	4/11/2014	8954	Training Building	1,2-Dichloroethane	107-06-2	0.038	0.019 J
ATL	4/2/2014	4/11/2014	8954	Training Building	Trichloroethylene	79-01-6	0.038	0.023 J
ATL	4/2/2014	4/11/2014	8954	Training Building	Butane	106-97-8		28 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Butane, 2-methyl-	78-78-4		12 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Cyclobutane, ethyl-	4806-61-5		2.5 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Cyclohexane	110-82-7		2.5 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Hexane	110-54-3		2.9 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Isobutane	75-28-5		14 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Pentane	109-66-0		12 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Pentane, 2-methyl-	107-83-5		4.9 NJ
ATL	4/2/2014	4/11/2014	8954	Training Building	Propane	74-98-6		34 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Methylene Chloride	75-09-2	0.41	U
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Carbon Tetrachloride	56-23-5	0.21	0.085 J
ATL	4/2/2014	4/11/2014	8955	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.041	0.0069 J
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Chlorobenzene	108-90-7	0.21	U
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Toluene	108-88-3	0.041	0.26
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Chloroform	67-66-3	0.21	U
ATL	4/2/2014	4/11/2014	8955	South Fenceline	1,1-Dichloroethylene	75-35-4	0.021	U
ATL	4/2/2014	4/11/2014	8955	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.041	U
ATL	4/2/2014	4/11/2014	8955	South Fenceline	1,2-Dichloroethane	107-06-2	0.041	0.018 J
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Trichloroethylene	79-01-6	0.041	0.068
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Acetone	67-64-1		2.8 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Butane	106-97-8		27 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Butane, 2-methyl-	78-78-4		11 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Cyclobutane, ethyl-	4806-61-5		2.2 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Cyclohexane	110-82-7		2.2 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Hexane	110-54-3		3.1 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Isobutane	75-28-5		14 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Pentane	109-66-0		11 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Pentane, 2-methyl-	107-83-5		4.9 NJ
ATL	4/2/2014	4/11/2014	8955	South Fenceline	Propane	74-98-6		31 NJ
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.48

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CEMRC	4/3/2014	4/8/2014	8952	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	0.1 J
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Toluene	108-88-3	0.4	0.16 J
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Trichloroethylene	79-01-6	0.4	0.54
CEMRC	4/3/2014	4/8/2014	8952	Training Building	Pentane	109-66-0		2.7 NJ
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Toluene	108-88-3	0.4	0.16 J
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/3/2014	4/8/2014	8953	South Fenceline	Pentane	109-66-0		2.94 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Methylene Chloride	75-09-2	0.4	U
ATL	4/3/2014	4/11/2014	8956	Training Building	Carbon Tetrachloride	56-23-5	0.2	0.086 J
ATL	4/3/2014	4/11/2014	8956	Training Building	1,1,1-Trichloroethane	71-55-6	0.04	0.022 J
ATL	4/3/2014	4/11/2014	8956	Training Building	Chlorobenzene	108-90-7	0.2	U
ATL	4/3/2014	4/11/2014	8956	Training Building	Toluene	108-88-3	0.04	0.23
ATL	4/3/2014	4/11/2014	8956	Training Building	Chloroform	67-66-3	0.2	U
ATL	4/3/2014	4/11/2014	8956	Training Building	1,1-Dichloroethylene	75-35-4	0.02	U
ATL	4/3/2014	4/11/2014	8956	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.04	U
ATL	4/3/2014	4/11/2014	8956	Training Building	1,2-Dichloroethane	107-06-2	0.04	0.019 J
ATL	4/3/2014	4/11/2014	8956	Training Building	Trichloroethylene	79-01-6	0.04	0.051
ATL	4/3/2014	4/11/2014	8956	Training Building	Butane	106-97-8		34 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Butane, 2-methyl-	78-78-4		14 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Cyclohexane	110-82-7		2.3 NJ

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ATL	4/3/2014	4/11/2014	8956	Training Building	Cyclopentane, methyl-	96-37-7		2.7 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Isobutane	75-28-5		18 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Nonanal	124-19-6		3.2 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Pentane	109-66-0		14 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Pentane, 2-methyl-	107-83-5		5.5 NJ
ATL	4/3/2014	4/11/2014	8956	Training Building	Propane	74-98-6		42 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Methylene Chloride	75-09-2	0.41	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Carbon Tetrachloride	56-23-5	0.21	0.045 J
ATL	4/3/2014	4/11/2014	8957	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.041	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Chlorobenzene	108-90-7	0.21	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Toluene	108-88-3	0.041	0.25
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Chloroform	67-66-3	0.21	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	1,1-Dichloroethylene	75-35-4	0.021	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.041	U
ATL	4/3/2014	4/11/2014	8957	South Fenceline	1,2-Dichloroethane	107-06-2	0.041	0.02 J
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Trichloroethylene	79-01-6	0.041	0.0083 J
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Acetone	67-64-1		2.5 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Butane	106-97-8		38 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Butane, 2-methyl-	78-78-4		14 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Cyclohexane	110-82-7		2.6 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Cyclopentane, methyl-	96-37-7		2.9 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Hexane	110-54-3		3.8 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Isobutane	75-28-5		19 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Pentane	109-66-0		15 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Pentane, 2-methyl-	107-83-5		6.2 NJ
ATL	4/3/2014	4/11/2014	8957	South Fenceline	Propane	74-98-6		45 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.32 J
CEMRC	4/9/2014	4/15/2014	8958	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U

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CEMRC	4/9/2014	4/15/2014	8958	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Trichloroethylene	79-01-6	0.4	0.3 J
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Butane	106-97-8		7.36 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Butane, 2-methyl-	78-78-4		3.48 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Cyclohexane, methyl-	108-87-2		0.5 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Isobutane	75-28-5		3.94 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Pentane	109-66-0		3 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Pentane, 2-methyl-	107-83-5		0.74 NJ
CEMRC	4/9/2014	4/15/2014	8958	Training Building	Propane	74-98-6		5.8 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.18 J
CEMRC	4/9/2014	4/15/2014	8960	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Butane	106-97-8		7.38 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Butane, 2-methyl-	78-78-4		3.38 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Cyclohexane, methyl-	108-87-2		0.54 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Nonanal	124-19-6		0.64 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Pentane	109-66-0		2.94 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Pentane, 2-methyl-	107-83-5		0.7 NJ
CEMRC	4/9/2014	4/15/2014	8960	Training Building	Propane	74-98-6		5.56 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Toluene	108-88-3	0.4	0.26 J
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U

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CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Butane	106-97-8		7.3 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Butane, 2-methyl-	78-78-4		3.16 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Cyclohexane, methyl-	108-87-2		0.52 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Isobutane	75-28-5		3.82 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Nonanal	124-19-6		1.34 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Pentane	109-66-0		2.96 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Pentane, 2-methyl-	107-83-5		0.7 NJ
CEMRC	4/9/2014	4/15/2014	8959	South Fenceline	Propane	74-98-6		5.94 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.16 J
CEMRC	4/10/2014	4/15/2014	8962	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Acetone	67-64-1		0.42 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Butane	106-97-8		6 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Butane, 2-methyl-	78-78-4		2.66 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Cyclohexane, methyl-	108-87-2		0.5 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Isobutane	75-28-5		3.18 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Nonanal	124-19-6		0.64 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Octanal	124-13-0		0.44 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Pentane	109-66-0		2.98 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Pentane, 2-methyl-	107-83-5		0.72 NJ
CEMRC	4/10/2014	4/15/2014	8962	Training Building	Propane	74-98-6		5.34 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Toluene	108-88-3	0.4	0.28 J
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Acetone	67-64-1		0.4 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Butane	106-97-8		6.18 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Butane, 2-methyl-	78-78-4		2.72 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Isobutane	75-28-5		3.2 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Pentane	109-66-0		3.04 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Pentane, 2-methyl-	107-83-5		0.76 NJ
CEMRC	4/10/2014	4/15/2014	8961	South Fenceline	Propane	74-98-6		5.68 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.32 J
CEMRC	4/16/2014	4/21/2014	8963	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Trichloroethylene	79-01-6	0.4	0.16 J
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Acetone	67-64-1		0.42 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Butane	106-97-8		3.54 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Isobutane	75-28-5		1.94 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Pentane	109-66-0		1.54 NJ
CEMRC	4/16/2014	4/21/2014	8963	Training Building	Propane	74-98-6		3.46 NJ
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.24 J
CEMRC	4/16/2014	4/21/2014	8965	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Toluene	108-88-3	0.4	0.12 J
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Butane	106-97-8		3.46 NJ
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Isobutane	75-28-5		1.9 NJ
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Pentane	109-66-0		1.44 NJ
CEMRC	4/16/2014	4/21/2014	8965	Training Building	Propane	74-98-6		3.32 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Toluene	108-88-3	0.4	0.14 J
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Butane	106-97-8		3.74 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Butane, 2-methyl-	78-78-4		1.5 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Isobutane	75-28-5		2 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Pentane	109-66-0		1.56 NJ
CEMRC	4/16/2014	4/21/2014	8964	Southeast Fenceline	Propane	74-98-6		3.54 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.18 J
CEMRC	4/17/2014	4/21/2014	8967	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Toluene	108-88-3	0.4	0.1 J

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CEMRC	4/17/2014	4/21/2014	8967	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Acetone	67-64-1		0.42 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Butane	106-97-8		2.2 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Isobutane	75-28-5		1.24 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Nonanal	124-19-6		2.72 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Octanal	124-13-0		0.46 NJ
CEMRC	4/17/2014	4/21/2014	8967	Training Building	Propane	74-98-6		1.96 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Toluene	108-88-3	0.4	0.12 J
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Acetone	67-64-1		0.62 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Butane	106-97-8		2.14 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Isobutane	75-28-5		1.26 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Pentane	109-66-0		0.86 NJ
CEMRC	4/17/2014	4/21/2014	8966	Southeast Fenceline	Propane	74-98-6		2.24 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.7
CEMRC	4/23/2014	5/1/2014	8968	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	0.16 J
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Toluene	108-88-3	0.4	0.16 J

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CEMRC	4/23/2014	5/1/2014	8968	Training Building	Chloroform	67-66-3	0.4	0.32 J
CEMRC	4/23/2014	5/1/2014	8968	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/23/2014	5/1/2014	8968	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/23/2014	5/1/2014	8968	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Trichloroethylene	79-01-6	0.4	0.92
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Acetone	67-64-1		1.18 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Butane	106-97-8		2.02 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Limonene	138-86-3		0.64 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Nonanal	124-19-6		1.54 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Octanal	124-13-0		0.44 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Pentane	109-66-0		0.92 NJ
CEMRC	4/23/2014	5/1/2014	8968	Training Building	Tetrachloroethylene	127-18-4		0.58 NJ
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Toluene	108-88-3	0.4	0.16 J
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Acetone	67-64-1		0.7 NJ
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Butane	106-97-8		2.04 NJ
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	4/23/2014	5/1/2014	8969	Southeast Fenceline	Nonanal	124-19-6		1.28 NJ
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/24/2014	5/1/2014	8970	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Toluene	108-88-3	0.4	0.1 J
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Chloroform	67-66-3	0.4	U

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CEMRC	4/24/2014	5/1/2014	8970	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Butane	106-97-8		3.1 NJ
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Dichlorodifluoromethane	75-71-8		0.48 NJ
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Isobutane	75-28-5		1.64 NJ
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Nonanal	124-19-6		2.34 NJ
CEMRC	4/24/2014	5/1/2014	8970	Training Building	Pentane	109-66-0		1.18 NJ
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Toluene	108-88-3	0.4	0.1 J
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Acetone	67-64-1		0.48 NJ
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Butane	106-97-8		1.94 NJ
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.48 NJ
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Isobutane	75-28-5		1.1 NJ
CEMRC	4/24/2014	5/1/2014	8971	Southeast Fenceline	Pentane	109-66-0		0.72 NJ
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.22 J
CEMRC	4/30/2014	5/5/2014	8972	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Toluene	108-88-3	0.4	0.08 J
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/30/2014	5/5/2014	8972	Training Building	1,2-Dichloroethane	107-06-2	0.4	U

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Trichloroethylene	79-01-6	0.4	0.16 J
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Acetone	67-64-1		0.42 NJ
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Butane	106-97-8		1.34 NJ
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Pentane	109-66-0		0.54 NJ
CEMRC	4/30/2014	5/5/2014	8972	Training Building	Propane	74-98-6		1.5 NJ
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.18 J
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Toluene	108-88-3	0.4	0.06 J
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Butane	106-97-8		1.4 NJ
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Pentane	109-66-0		0.52 NJ
CEMRC	4/30/2014	5/5/2014	8973	Southeast Fenceline	Propane	74-98-6		1.54 NJ
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/1/2014	5/5/2014	8974	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Toluene	108-88-3	0.4	0.08 J
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Butane	106-97-8		2.68 NJ
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Dichlorodifluoromethane	75-71-8		0.4 NJ
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Isobutane	75-28-5		1.44 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Nonanal	124-19-6		1.22 NJ
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Pentane	109-66-0		1.04 NJ
CEMRC	5/1/2014	5/5/2014	8974	Training Building	Propane	74-98-6		2.94 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Toluene	108-88-3	0.4	0.1 J
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Acetone	67-64-1		0.62 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Butane	106-97-8		3.1 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Isobutane	75-28-5		1.7 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Pentane	109-66-0		1.24 NJ
CEMRC	5/1/2014	5/5/2014	8975	Southeast Fenceline	Propane	74-98-6		3.44 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/7/2014	5/12/2014	8976	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Acetone	67-64-1		0.58 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Butane	106-97-8		3.36 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Isobutane	75-28-5		1.92 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Nonanal	124-19-6		1.18 NJ

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CEMRC	5/7/2014	5/12/2014	8976	Training Building	Pentane	109-66-0		1.56 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Pentane, 2-methyl-	107-83-5		0.42 NJ
CEMRC	5/7/2014	5/12/2014	8976	Training Building	Propane	74-98-6		2.84 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/7/2014	5/12/2014	8978	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Acetone	67-64-1		0.44 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Butane	106-97-8		3.26 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Isobutane	75-28-5		1.88 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Nonanal	124-19-6		1.64 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Pentane	109-66-0		1.5 NJ
CEMRC	5/7/2014	5/12/2014	8978	Training Building	Propane	74-98-6		2.94 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Butane	106-97-8		3.38 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Butane, 2-methyl-	78-78-4		1.9 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.4 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Isobutane	75-28-5		1.88 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Nonanal	124-19-6		0.44 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Pentane	109-66-0		1.52 NJ
CEMRC	5/7/2014	5/12/2014	8977	Southeast Fenceline	Propane	74-98-6		3.02 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Toluene	108-88-3	0.4	0.2 J
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Acetone	67-64-1		0.46 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Butane	106-97-8		3.36 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Isobutane	75-28-5		1.9 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Nonanal	124-19-6		1.24 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Pentane	109-66-0		1.46 NJ
CEMRC	5/7/2014	5/12/2014	8979	Southeast Fenceline	Propane	74-98-6		2.96 NJ
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/8/2014	5/12/2014	8980	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Toluene	108-88-3	0.4	0.24 J
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Trichloroethylene	79-01-6	0.4	0.12 J
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Butane	106-97-8		3.08 NJ
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Isobutane	75-28-5		1.7 NJ
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Nonanal	124-19-6		0.98 NJ
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Pentane	109-66-0		1.2 NJ
CEMRC	5/8/2014	5/12/2014	8980	Training Building	Propane	74-98-6		2.78 NJ

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CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Toluene	108-88-3	0.4	0.24 J
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Butane	106-97-8		2.98 NJ
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Isobutane	75-28-5		1.62 NJ
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Nonanal	124-19-6		0.58 NJ
CEMRC	5/8/2014	5/12/2014	8981	Southeast Fenceline	Propane	74-98-6		2.68 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Toluene	108-88-3	0.4	0.06 J
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Acetone	67-64-1		0.62 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Butane	106-97-8		1.62 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Pentane	109-66-0		0.58 NJ
CEMRC	5/14/2014	5/19/2014	8982	Training Building	Propane	74-98-6		1.88 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.36 J
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U

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CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Toluene	108-88-3	0.4	0.06 J
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Acetone	67-64-1		0.72 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Butane	106-97-8		1.62 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Isobutane	75-28-5		0.84 NJ
CEMRC	5/14/2014	5/19/2014	8983	Southeast Fenceline	Propane	74-98-6		1.78 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Toluene	108-88-3	0.4	0.2 J
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Butane	106-97-8		4.72 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Isobutane	75-28-5		2.56 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Pentane	109-66-0		2.26 NJ
CEMRC	5/15/2014	5/19/2014	8984	Training Building	Propane	74-98-6		4.6 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.3 J
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U

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CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Butane	106-97-8		4.8 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Isobutane	75-28-5		2.58 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Nonanal	124-19-6		0.54 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Pentane	109-66-0		2.24 NJ
CEMRC	5/15/2014	5/19/2014	8985	Southeast Fenceline	Propane	74-98-6		4.86 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/21/2014	5/29/2014	8986	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Acetone	67-64-1		0.98 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Butane	106-97-8		3.22 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Isobutane	75-28-5		1.94 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Nonanal	124-19-6		2.28 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Octanal	124-13-0		0.74 NJ
CEMRC	5/21/2014	5/29/2014	8986	Training Building	Pentane	109-66-0		1.32 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/21/2014	5/29/2014	8988	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Toluene	108-88-3	0.4	0.24 J
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	1,2-Dichloroethane	107-06-2	0.4	U

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CEMRC	5/21/2014	5/29/2014	8988	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Acetone	67-64-1		0.7 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Butane	106-97-8		3.14 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Hexanal	66-25-1		0.46 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Isobutane	75-28-5		1.86 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Nonanal	124-19-6		3.44 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Octanal	124-13-0		0.64 NJ
CEMRC	5/21/2014	5/29/2014	8988	Training Building	Pentane	109-66-0		1.26 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Acetone	67-64-1		0.84 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Butane	106-97-8		3.26 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Isobutane	75-28-5		1.92 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Nonanal	124-19-6		0.62 NJ
CEMRC	5/21/2014	5/29/2014	8987	Southeast Fenceline	Pentane	109-66-0		1.32 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Toluene	108-88-3	0.4	0.22 J
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U

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CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Acetone	67-64-1		0.68 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Butane	106-97-8		3.06 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.42 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Isobutane	75-28-5		1.76 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Nonanal	124-19-6		2.52 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Octanal	124-13-0		0.48 NJ
CEMRC	5/21/2014	5/29/2014	8989	Southeast Fenceline	Pentane	109-66-0		1.2 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	5/22/2014	5/29/2014	8990	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Toluene	108-88-3	0.4	0.26 J
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Acetone	67-64-1		0.9 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Butane	106-97-8		1.94 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Isobutane	75-28-5		1.38 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Nonanal	124-19-6		4.74 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Octanal	124-13-0		1.32 NJ
CEMRC	5/22/2014	5/29/2014	8990	Training Building	Pentane	109-66-0		0.7 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Toluene	108-88-3	0.4	0.2 J
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U

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CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Acetone	67-64-1		0.86 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Butane	106-97-8		1.94 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		0.64 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.46 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Isobutane	75-28-5		1.42 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Nonanal	124-19-6		3.38 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Octanal	124-13-0		1.08 NJ
CEMRC	5/22/2014	5/29/2014	8991	Southeast Fenceline	Pentane	109-66-0		0.72 NJ
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Methylene Chloride	75-09-2	0.4	0.32 J
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/28/2014	6/6/2014	8992	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Toluene	108-88-3	0.4	0.2 J
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Acetone	67-64-1		1.58 NJ
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Butane	106-97-8		5.6 NJ
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Dichlorodifluoromethane	75-71-8		0.6 NJ
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Isobutane	75-28-5		3.66 NJ
CEMRC	5/28/2014	6/6/2014	8992	Training Building	Nonanal	124-19-6		4.86 NJ
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	0.34 J
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.2 J
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Toluene	108-88-3	0.4	0.14 J
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U

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CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Acetone	67-64-1		1.18 NJ
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Butane	106-97-8		4.54 NJ
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.52 NJ
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Pentane	109-66-0		2.14 NJ
CEMRC	5/28/2014	6/6/2014	8993	Southeast Fenceline	Pentane, 2-methyl-	107-83-5		0.44 NJ
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Methylene Chloride	75-09-2	0.4	0.42
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	5/29/2014	6/6/2014	8994	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Toluene	108-88-3	0.4	0.32 J
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Acetone	67-64-1		1.36 NJ
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Butane	106-97-8		6.16 NJ
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Dichlorodifluoromethane	75-71-8		0.62 NJ
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Isobutane	75-28-5		3.82 NJ
CEMRC	5/29/2014	6/6/2014	8994	Training Building	Pentane	109-66-0		2.76 NJ
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	0.48
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Toluene	108-88-3	0.4	0.26 J
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Acetone	67-64-1		1.06 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Butane	106-97-8		5.78 NJ
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		0.54 NJ
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.54 NJ
CEMRC	5/29/2014	6/6/2014	8995	Southeast Fenceline	Isobutane	75-28-5		3.46 NJ
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	6/4/2014	6/6/2014	8996	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Toluene	108-88-3	0.4	0.1 J
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Acetone	67-64-1		1.32 NJ
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Butane	106-97-8		2.5 NJ
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Dichlorodifluoromethane	75-71-8		0.6 NJ
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Nonanal	124-19-6		5.16 NJ
CEMRC	6/4/2014	6/6/2014	8996	Training Building	Pentane	109-66-0		1.08 NJ
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	6/4/2014	6/6/2014	8997	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Toluene	108-88-3	0.4	0.22 J
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Acetone	67-64-1		2.1 NJ
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Butane	106-97-8		2.76 NJ
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Dichlorodifluoromethane	75-71-8		0.6 NJ
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Isobutane	75-28-5		2.16 NJ
CEMRC	6/4/2014	6/6/2014	8997	Training Building	Nonanal	124-19-6		10.62 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Toluene	108-88-3	0.4	0.1 J
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Acetone	67-64-1		1.28 NJ
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Butane	106-97-8		2.36 NJ
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.54 NJ
CEMRC	6/4/2014	6/6/2014	8998	Southeast Fenceline	Isobutane	75-28-5		1.72 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Toluene	108-88-3	0.4	0.2 J
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Acetone	67-64-1		1.5 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Butane	106-97-8		2.36 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.66 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Isobutane	75-28-5		1.84 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Nonanal	124-19-6		3.86 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Octanal	124-13-0		0.98 NJ
CEMRC	6/4/2014	6/6/2014	8999	Southeast Fenceline	Silanol, trimethyl-	1066-40-6		0.5 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Methylene Chloride	75-09-2	0.4	0.16 J
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J

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CEMRC	6/5/2014	6/6/2014	9000	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Toluene	108-88-3	0.4	0.36 J
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Acetone	67-64-1		1.74 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Acetophenone	98-86-2		0.44 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Butane	106-97-8		3.14 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		0.72 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		1.82 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Dichlorodifluoromethane	75-71-8		0.6 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Isobutane	75-28-5		2.38 NJ
CEMRC	6/5/2014	6/6/2014	9000	Training Building	Nonanal	124-19-6		5.48 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Toluene	108-88-3	0.4	0.26 J
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Acetone	67-64-1		1.38 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Acetophenone	98-86-2		0.46 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		0.66 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		1.52 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.54 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Isobutane	75-28-5		2.2 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Nonanal	124-19-6		4.9 NJ
CEMRC	6/5/2014	6/7/2014	9001	Southeast Fenceline	Silanol, trimethyl-	1066-40-6		0.92 NJ

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CEMRC	6/11/2014	6/16/2014	9002	Training Building	Methylene Chloride	75-09-2	0.4	0.12 J
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	6/11/2014	6/16/2014	9002	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Acetone	67-64-1		1.7 NJ
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Butane	106-97-8		5.32 NJ
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Butane, 2-methyl-	78-78-4		1.82 NJ
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Dichlorodifluoromethane	75-71-8		0.56 NJ
CEMRC	6/11/2014	6/16/2014	9002	Training Building	Octanal	124-13-0		0.58 NJ
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Toluene	108-88-3	0.4	0.18 J
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Acetone	67-64-1		1.68 NJ
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Butane	106-97-8		5.6 NJ
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.56 NJ
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Isobutane	75-28-5		3.06 NJ
CEMRC	6/11/2014	6/16/2014	9003	Southeast Fenceline	Nonanal	124-19-6		1.1 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Methylene Chloride	75-09-2	0.4	0.14 J
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.14 J

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CEMRC	6/12/2014	6/16/2014	9004	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Toluene	108-88-3	0.4	0.3 J
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Acetone	67-64-1		1.54 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Butane	106-97-8		6.66 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Butane, 2-methyl-	78-78-4		2.5 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Cyclohexane, methyl-	108-87-2		0.4 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		0.72 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		1.54 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Dichlorodifluoromethane	75-71-8		0.52 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Isobutane	75-28-5		3.78 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Nonanal	124-19-6		4.34 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Octanal	124-13-0		1.24 NJ
CEMRC	6/12/2014	6/16/2014	9004	Training Building	Silanol, trimethyl-	1066-40-6		0.52 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	0.12 J
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.14 J
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Toluene	108-88-3	0.4	0.26 J
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Acetone	67-64-1		1.2 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Butane	106-97-8		6.32 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Butane, 2-methyl-	78-78-4		2.38 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		1.06 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		1.8 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Dichlorodifluoromethane	75-71-8		0.44 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Nonanal	124-19-6		4.64 NJ
CEMRC	6/12/2014	6/16/2014	9005	Southeast Fenceline	Octanal	124-13-0		1.12 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Trichloroethylene	79-01-6	0.4	0.12 J
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Acetone	67-64-1		1.36 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Butane	106-97-8		1.36 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Isobutane	75-28-5		0.98 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Nonanal	124-19-6		0.92 NJ
CEMRC	6/18/2014	6/25/2014	9006	Training Building	Pentane	109-66-0		0.66 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Toluene	108-88-3	0.4	0.22 J
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Acetone	67-64-1		1.74 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Butane	106-97-8		1.38 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Hexanal	66-25-1		0.46 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Isobutane	75-28-5		1.16 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Nonanal	124-19-6		1.64 NJ
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Octanal	124-13-0		0.98 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	6/18/2014	6/25/2014	9007	Training Building	Pentane	109-66-0		0.68 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Toluene	108-88-3	0.4	0.12 J
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Butane	106-97-8		1.38 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		0.5 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Isobutane	75-28-5		0.9 NJ
CEMRC	6/18/2014	6/25/2014	9008	Southeast Fenceline	Pentane	109-66-0		0.66 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Toluene	108-88-3	0.4	0.2 J
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Butane	106-97-8		1.34 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Isobutane	75-28-5		0.98 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Nonanal	124-19-6		0.66 NJ
CEMRC	6/18/2014	6/25/2014	9009	Southeast Fenceline	Pentane	109-66-0		0.64 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Chlorobenzene	108-90-7	0.4	U

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CEMRC	6/19/2014	6/25/2014	9010	Training Building	Toluene	108-88-3	0.4	0.3 J
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Acetophenone	98-86-2		0.48 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Butane	106-97-8		1.3 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		1.12 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		1.58 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Isobutane	75-28-5		1.16 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Nonanal	124-19-6		1.76 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Octanal	124-13-0		0.98 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Pentane	109-66-0		0.76 NJ
CEMRC	6/19/2014	6/25/2014	9010	Training Building	Silanol, trimethyl-	1066-40-6		0.46 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Toluene	108-88-3	0.4	0.22 J
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Acetone	67-64-1		1.24 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Acetophenone	98-86-2		0.48 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Butane	106-97-8		1.36 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		1.72 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		2.12 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Isobutane	75-28-5		1.08 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Nonanal	124-19-6		1.32 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Octanal	124-13-0		0.62 NJ
CEMRC	6/19/2014	6/26/2014	9011	Southeast Fenceline	Pentane	109-66-0		0.68 NJ

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Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.1 J
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Toluene	108-88-3	0.4	0.14 J
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Acetone	67-64-1		0.62 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Butane	106-97-8		1.42 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Isobutane	75-28-5		1 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Nonanal	124-19-6		1.02 NJ
CEMRC	6/25/2014	7/2/2014	9012	Training Building	Pentane	109-66-0		0.8 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Toluene	108-88-3	0.4	0.16 J
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Acetone	67-64-1		0.54 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Butane	106-97-8		1.5 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		0.54 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Isobutane	75-28-5		1.06 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Nonanal	124-19-6		0.58 NJ
CEMRC	6/25/2014	7/2/2014	9013	Southeast Fenceline	Pentane	109-66-0		0.82 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Methylene Chloride	75-09-2	0.4	U

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CEMRC	6/26/2014	7/2/2014	9014	Training Building	Carbon Tetrachloride	56-23-5	0.4	0.12 J
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Toluene	108-88-3	0.4	0.32 J
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Chloroform	67-66-3	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Acetone	67-64-1		0.6 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Butane	106-97-8		2.38 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Cyclotetrasiloxane, octamethyl-	556-67-2		0.68 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Cyclotrisiloxane, hexamethyl-	541-05-9		0.9 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Isobutane	75-28-5		1.46 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Nonanal	124-19-6		2.1 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Octanal	124-13-0		0.8 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Pentane	109-66-0		1.36 NJ
CEMRC	6/26/2014	7/2/2014	9014	Training Building	Pentane, 2-methyl-	107-83-5		0.42 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Methylene Chloride	75-09-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Carbon Tetrachloride	56-23-5	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1,1-Trichloroethane	71-55-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Chlorobenzene	108-90-7	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Toluene	108-88-3	0.4	0.32 J
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Chloroform	67-66-3	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1-Dichloroethylene	75-35-4	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,1,2,2-Tetrachloroethane	79-34-5	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	1,2-Dichloroethane	107-06-2	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Trichloroethylene	79-01-6	0.4	U
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Acetone	67-64-1		0.44 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Acetophenone	98-86-2		0.46 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Butane	106-97-8		2.52 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Cyclotetrasiloxane, octamethyl-	556-67-2		1.3 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Cyclotrisiloxane, hexamethyl-	541-05-9		1.4 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Isobutane	75-28-5		1.5 NJ

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Attachment 8 – Surface Samples

Lab	Sample Date	Analysis Date	Sample ID	Location	Compound	CAS	MRL (ppbv)	Concentration (ppbv)
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Nonanal	124-19-6		2.2 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Octanal	124-13-0		0.68 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Pentane	109-66-0		1.36 NJ
CEMRC	6/26/2014	7/2/2014	9015	Southeast Fenceline	Pentane, 2-methyl-	107-83-5		0.46 NJ

Notes:

Starting with samples collected on or after May 12, 2014, trichloroethylene is a target analyte in compliance with the NMED Administrative Order dated May 12, 2014. For samples collected before May 12, 2014, trichloroethylene is an additional requested analyte; not a Permit-prescribed target analyte but included in the laboratory quantitative analysis.

Descriptions for qualifiers (i.e., U, J, and NJ) are presented in section 1.2 of this report.

MRL = method reporting limit, adjusted to compensate for dilutions, as applicable. Additional details are presented in section 1.2 of this report.
ppbv = parts per billion by volume.

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**Semi-Annual VOC, Hydrogen, and Methane Data Summary Report for
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Table 2 – Summary of Repository VOC Monitoring Results

Target Compound	Running Annual Average Max. Value (ppbv)	Emission Concentration Max. Value (ppbv)	COC (ppbv)	Total Exceedances
Carbon Tetrachloride	272.01	825.49	960	0
Chlorobenzene	0	0	220	0
Chloroform	22.81	82.75	180	0
1,1-Dichloroethylene	0	0	100	0
1,2-Dichloroethane	0	0	45	0
Methylene Chloride	5.18	20.89	1,930	0
1,1,2,2-Tetrachloroethane	0	0	50	0
Toluene	0	0	190	0
1,1,1-Trichloroethane	41.57	111.8	590	0

ppbv = parts per billion by volume

COC = concentration of concern

3.0 DISPOSAL ROOM VOC MONITORING

Collection and analysis of VOC samples from each room containing waste in an active Underground HWDU was implemented on November 20, 2006, and continues to the present time. Sampling frequency is conducted in accordance with Permit Attachment N, section N-3d(2). For this reporting period, the frequency was once every two weeks for all sampling locations. Room-based limits and action levels, as specified in Permit Part 4, tables 4.4.1 and 4.6.3.2 respectively, are shown in table 3. Sample locations are determined in accordance with Permit Attachment N, section N-3a(2). Results from disposal room VOC monitoring samples are presented in section 3.1 and are compared to the action levels and room-based limits.

The number of disposal room VOC monitoring locations increases as waste emplacement proceeds from room to room. As waste is placed into a room, VOC monitoring in that room commences at the exhaust end of the room. After the room is filled, VOC monitoring begins at a second location in that room at the inlet side. When the next room receives waste, the process is repeated. All rooms within an Underground HWDU that receive waste are actively monitored until waste emplacement in the Underground HWDU is complete. At that point, VOC monitoring in that Underground HWDU will be reduced to Room 1 (i.e., ongoing disposal room VOC monitoring) unless an explosion-isolation wall is installed in the panel. Sample location data are identified by the source panel number, room number, and intake (I) or exhaust (E) function. For example, the Panel 6 Room 7 exhaust location is P6R7E.